# **Environmental Assessment Report**

# **Union Road (UNR)**

Name of the Sub-project: Kashil UP office-Aisara Bazar via Janjania Road

Slice No. : UNR-35 Upazila : Basail District : Tangail



Second Rural Transport Improvement Project Local Government Engineering Department

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## 1. Sub Project Description

Name of the Sub-project: Kashil UP office-Aisara Bazar via Janjania Road

ID No. : 393093002
District Name
Name of the Upazila : Basail

**Length of the Road** : 11.86 km (Effective Length 3.849 km)

#### **Location of the sub-project**

Basail Upazila is located at 24.2167°N 90.0500°E and bounded by Kalihati, Shakipur, Mirzapur, Delduar and Tangail Sadar Upazila. The road is 11.86 km (Effective Length 3.849 km) long, starts at Kashil UP Office and ends at Ayshara Bazar [details are listed in **Table-1.1**].

Name of the unions the road passes through	Name of the road side villages (at least 5 nos)	0	End point of the road	Year of construction/Last maintenance	Major items included in estimates
Ksahil, Fulki	Bathuli sadi, Gatchpara, Moytha, Jhanjania, Fulki, Tironj, Ayshara	Kashil UP Office	Ayshara Bazar	1999	Earth Work, WBM, ISG, Brick on End Edging, Dense Carpeting, Seal Coat & Surface Drain

Table-1.1

#### **Brief Description of the sub project**

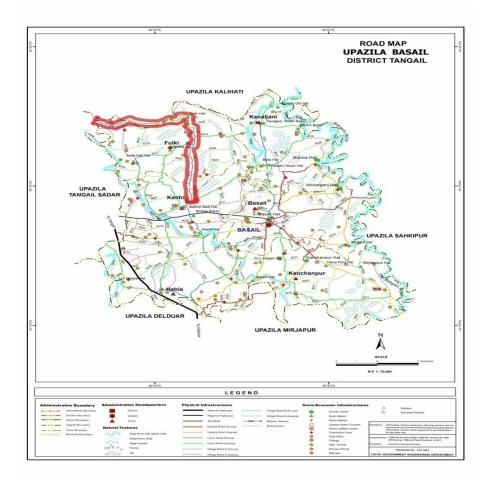
Union road (UNR) improvement includes construction of bituminous road on the existing earthen road. Major components of the works includes earthwork at whole chainages (earth volume 7016 cum), base coarse Improve sub grade, Brick at edge, 25mm dense carpeting, Surface Drain at chainages 7700m, 9175m, 7575m and 8300m to 8375m. Protective work at chainages 340m to 360m R/S, 375m to 400m L/S, 535m to 560m L/S, 550m to 610m R/S, 770m to 785m R/S, 855m to 920m R/S, 990m to 1032m R/S, 967m to 987m L/S, 1170m to 1200m R/S, 1500m to 1550m L/S, 1690m to 1755m R/S, 2015m to 2050m R/S and 2500m to 2550m R/S (Total=502 m).

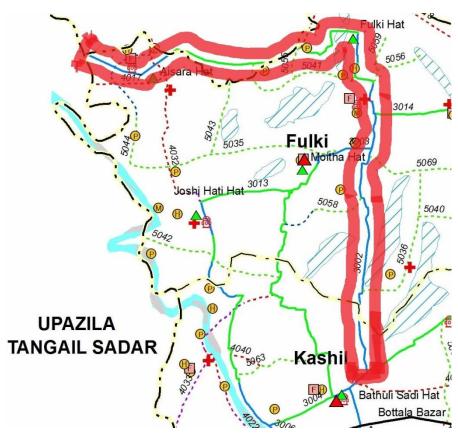






Photograph of the proposed Road





Location map of the sub project

#### 2. Detail Environmental Features

The UNR has a length of 11.86 km (Effective Length 3.849 km).Detail Environmental features within 100m of the both sides from the centre line were collected @300m longitudinal intervals. The findings of the survey for the aforementioned road can be seen in the table below:

UP Office, Bazar, Housing Area, GPS, NGO Office, Saw Mill	Chainage	Right	Left	<b>Environmental Features</b>
Sazar, Housing Area, NGO, Saw Mill   Housing Area, Pond, Agricultural Land   Housing Area, Pond, Agricultural Land   Housing Area, Pond, Hand Loom, Agricultural Land   Housing Area, Pond, Hand Loom, Agricultural Land   Housing Area, Pond, Shop, Hand Loom, Agricultural Land   Housing Area, Pond, Shop, Hand Loom, Agricultural Land   Housing Area, Hand Loom, Agricultural Land   Housing Area, Hand Loom, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Pond, Agricultural Land, PS   Housing Area, Agricultural Land, PS   Housing Area, Agricultural Land   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, Housing Are				UP Office, Bazar, Housing Area, GPS, NGO
Source	00-300	$\sqrt{}$		Office, Saw Mill
None			$\sqrt{}$	Bazar, Housing Area, NGO, Saw Mill
Housing Area, Pond, Agricultural Land, Mosque	200,600	$\sqrt{}$		Housing Area, Pond, Agricultural Land
Housing Area, Pond, Hand Loom, Agricultural Land	300-600			Housing Area, Pond, Agricultural Land, Mosque
Land   Housing Area, Pond, Shop, Hand Loom, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Pond, Agricultural Land   Housing Area, Pond, Agricultural Land   Housing Area, Agricultural Land, GPS   Housing Area, Agricultural Land, GPS   Housing Area, Agricultural Land, Housing Area, Agricultural Land   Housing Area, Agricultural Land, GPS   Housing Area, Agricultural Land, Housing Area, Agricultural Land   Housing Area, Agricultural Land, Housing Area, Agricultural Land				
Housing Area, Pond, Shop, Hand Loom, Agricultural Land	600,000	$\sqrt{}$		
	600-900			Housing Area, Pond, Shop, Hand Loom,
1200-1200			$\sqrt{}$	
1200-1200	000 1200	V		Housing Area, Hand Loom, Agricultural Land
1200-1500	900-1200		V	
1500-1800	1200 1700			
1500-1800	1200-1500		V	
1800-1800		V	·	
Agricultural Land   Agricultural Land	1500-1800			
Agricultural Land   Agricultural Land		V	· · · · · · · · · · · · · · · · · · ·	ŭ
2100-2400	1800-2100	,	V	
Agricultural Land		V	•	
2400-2700	2100-2400	,	V	
Housing Area, Agricultural Land			· · · · · · · · · · · · · · · · · · ·	
Housing Area, Agricultural Land   Housing Area, Pond, Agricultural Land   Housing Area, Pond   Housing Area, Pond, Agricultural Land, GPS   Housing Area, Agricultural Land, Eidgah, Madrasha.   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Moytha New Bazar, Graveyard   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land   Housing Area, Agri	2400-2700	,	V	
Housing Area, Agricultural Land			· · · · · · · · · · · · · · · · · · ·	
Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Pond, Agricultural Land   Housing Area, Pond   Housing Area, Pond   Housing Area, Pond, Agricultural Land, GPS   Housing Area, Agricultural Land, Eidgah, Madrasha.   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Moytha New Bazar, Graveyard   Housing Area, Moytha New Bazar, Mosque   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, College   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land, Shop   Housing Area, Agricultural Land, Shop   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land, Shop   Housing Area, Agricultural Land   Housing Area, A	2700-3000	,	V	
Source			· · · · · · · · · · · · · · · · · · ·	
Sample	3000-3300	,	V	
Solution   Solution		V	•	
Housing Area, Pond, Agricultural Land, GPS	3300-3600	,	V	
Housing Area, Agricultural Land, Eidgah, Madrasha.  3900-4200  V Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Moytha New Bazar, Graveyard  Housing Area, Moytha New Bazar, Mosque  Housing Area, Agricultural Land, Moytha New Bazar  Housing Area, Agricultural Land, Moytha New Bazar  Housing Area, Agricultural Land, College  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Clinic		V	•	C ,
V   Madrasha.     3900-4200   V   Housing Area, Agricultural Land     4200-4500   V   Housing Area, Moytha New Bazar, Graveyard     4500-4800   V   Housing Area, Moytha New Bazar, Mosque     4500-4800   V   Housing Area, Agricultural Land, Moytha New Bazar     4500-4800   V   Housing Area, Agricultural Land, College     4800-5100   V   Housing Area, Agricultural Land     5100-5400   V   Housing Area, Agricultural Land, Shop     5400-5700   V   Housing Area, Agricultural Land     4500-4800   V   Housing Area, Agricultural Land     4800-5100   V   Housing Area, Agricultural Land, Shop     4800-5100   Housing Area, Agricultural Land, Shop	3600-3900	,		
3900-4200	3000 3700		$\sqrt{}$	
Housing Area, Agricultural Land   Housing Area, Moytha New Bazar, Graveyard   Housing Area, Moytha New Bazar, Mosque   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, Moytha New Bazar   Housing Area, Agricultural Land, College   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land   Housing Area, Agricultural Land, Shop   Housing Area, Agricultural Land, Shop   Housing Area, Agricultural Land   Clinic   Housing Area, Agricultural Land   Clinic		V	· · · · · · · · · · · · · · · · · · ·	
Housing Area, Moytha New Bazar, Graveyard  Housing Area, Moytha New Bazar, Mosque  Housing Area, Agricultural Land, Moytha New Bazar  Housing Area, Agricultural Land, College  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land	3900-4200	,	V	
Housing Area, Moytha New Bazar, Mosque Housing Area, Agricultural Land, Moytha New Bazar  Housing Area, Agricultural Land, College Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land		V	· · · · · · · · · · · · · · · · · · ·	
Housing Area, Agricultural Land, Moytha New Bazar  ✓ Housing Area, Agricultural Land, College Housing Area, Agricultural Land  ✓ Housing Area, Agricultural Land  ✓ Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  ✓ Housing Area, Agricultural Land, Shop  ✓ Housing Area, Agricultural Land, Shop  ✓ Housing Area, Agricultural Land	4200-4500	,	V	
4500-4800    Bazar  ✓ Housing Area, Agricultural Land, College  Housing Area, Agricultural Land  ✓ Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  ✓ Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land, Shop  ✓ Housing Area, Agricultural Land  ✓ Housing Area, Agricultural Land  ✓ Housing Area, Agricultural Land, Clinic			,	<u> </u>
4800-5100       √       Housing Area, Agricultural Land, College         4800-5100       √       Housing Area, Agricultural Land         5100-5400       √       Housing Area, Agricultural Land, Shop         √       Housing Area, Agricultural Land, Shop         Housing Area, Agricultural Land       Housing Area, Agricultural Land         √       Housing Area, Agricultural Land, Clinic	4500-4800	$\sqrt{}$		
4800-5100  √ Housing Area, Agricultural Land  Housing Area, Agricultural Land  Housing Area, Agricultural Land, Shop  √ Housing Area, Agricultural Land, Shop  √ Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land  √ Housing Area, Agricultural Land  √ Housing Area, Agricultural Land, Clinic	1500 1000	,	V	
4800-5100  √ Housing Area, Agricultural Land  5100-5400  √ Housing Area, Agricultural Land, Shop  √ Housing Area, Agricultural Land, Shop  Housing Area, Agricultural Land  √ Housing Area, Agricultural Land  √ Housing Area, Agricultural Land, Clinic			· · · · · · · · · · · · · · · · · · ·	
5100-5400	4800-5100	,		
5100-5400			•	<u> </u>
5400-5700   √ Housing Area, Agricultural Land  Housing Area, Agricultural Land, Clinic	5100-5400	<b>Y</b>	V	
5400-5700   √ Housing Area, Agricultural Land, Clinic			· · · · · · · · · · · · · · · · · · ·	
	5400-5700	٧	V	
	5700-6000		<u> </u>	Housing Area, Agricultural Land, Shop

Chainage	Right	Left	Environmental Features		
		V	Housing Area, Agricultural Land, Shop		
			Housing Area, Agricultural Land, GPS, Fulki		
6000-6300	$\sqrt{}$		Bazar, Mosque		
		V	Housing Area, Agricultural Land, Fulki Bazar		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Housing Area, Agricultural Land, Pond		
6300-6600		V	Housing Area, Agricultural Land		
6600-6900	$\sqrt{}$		Housing Area, Agricultural Land, Pond		
0000-0900		$\sqrt{}$	Housing Area, Agricultural Land, Pond		
6900-7200	$\sqrt{}$		Housing Area, Agricultural Land		
0900-7200		$\sqrt{}$	Housing Area, Agricultural Land		
7200-7500	$\sqrt{}$		Housing Area, Agricultural Land		
7200-7300		$\sqrt{}$	Housing Area, Agricultural Land, Pond		
7500 7900			Housing Area, Agricultural Land		
7500-7800		V	Agricultural Land		
7000 0100			Housing Area, Agricultural Land		
7800-8100		V	Housing Area, Agricultural Land		
0100 0400	V		Housing Area, Agricultural Land		
8100-8400		V	Housing Area, Mosque		
V			Housing Area, Agricultural Land		
8400-8700		V	Housing Area		
8700-9000		,	Housing Area, Agricultural Land, Ananda Bazar		
		V	Housing Area, Agricultural Land, Ananda Bazar		
	V	,	Housing Area, Agricultural Land, Hand Loom		
9000-9300	· · · · · · · · · · · · · · · · · · ·	V	Housing Area, Agricultural Land, Shop		
	V	,	Housing Area, Agricultural Land		
9300-9600	,	V	Housing Area, Agriculturar Land Housing Area, Shop		
	<b>√</b>	,	Housing Area, Agricultural Land, Mosque		
9600-9900	<u>'</u>	V	Housing Area, Agricultural Land, Mosque  Housing Area, Agricultural Land		
	V	,	Canal, Agricultural Land		
9900-10200	,	V	Housing Area, Agricultural Land		
		<b>,</b>	Housing Area, Agricultural Land, Canal, KG		
10200-10500	$\sqrt{}$		School		
10200 10300	•	V	Housing Area, Agricultural Land, Shop		
	<b>√</b>	<b>,</b>	Housing Area, Agricultural Land, Canal		
10500-10800	v	V	Housing Area, Agricultural Land, Pond		
		V	Ayshara Bazar, Saw Mill, Housing Area, NGO		
	$\sqrt{}$		office		
10800-11100	Y		Ayshara Bazar, GPS, Agricultural Land, High		
$\downarrow$		$\sqrt{}$	School, NGO office		
		٧	Housing Area, Agricultural Land, Canal		
11100-11400	٧	V	Housing Area, Agricultural Land, Canar  Housing Area, Agricultural Land		
	√	V	Housing Area, Agricultural Land  Housing Area, Agricultural Land		
11400-11700	٧	V			
		V	Housing Area, Agricultural Land		

#### 3. Baseline Data

#### 3 (a) Physical Environment

#### 3. a.1 Atmosphere and Climate

Meteorological conditions of the area are more or less similar as in central part of the country with respect to temperature, rainfall and humidity. The project area is situated in humid sub-tropical climate with large variations between summer and winter temperatures and significantly influenced by monsoons during the months of May to September when 90% of the rainfall occurs. The annual average maximum temperature is about 36°C and minimum temperature is about 12.7°C. Annual rainfall is about 1,469 mm (ref. Tangail, 2012).

#### 3.a.2 Topography

The sub-project area mainly comprises of plain agricultural land and almost flat with few undulations. River Lohajang flows nearby the sub-project area. The depressions and canals are dominated by organic clay and peats. Most depressions and canals are tectonically controlled. The average ground elevation of the project area is about 13.5m PWD. According to the information collected through public consultation, this area is considered as a flood affected area and affected in severe floods of 1988 and 1998. A general topographic condition is found in the flowing photograph:



#### 3.a.3 Drainage

Water logging was observed at chainage 7700m, 9175m and 8300m to 8375m on the road due to insufficient drainage facilities. Water logging was also observed at chainage 7575m as the road lacks adequate opening to drain out water. At present there is no existing drainage facility in the proposed UNR.

#### 3.a.4 Water Quality

**3.a.4.1 Ground Water**: Information on ground water quality of the nearest tube-wells along the road has been collected on spot discussion and consultation with the villagers. The depth of ground water level varies from 3m to 6m. Potable ground water is available at an average depth of 40m to 60m. Ground water quality of HTWs used for drinking purposes is provided in the following table:

Drinking water quality parameters	Average contents of HTW water (mg/L)	Permissible limit (mg/L), Bangladesh standard	Comments
Arsenic	0.002	Up to 0.05	Within permissible limit
Iron	2.37	Up to 1.00	Within permissible limit
Chloride	14	150-600	Below the standard

Source: Bangladesh National Drinking Water Quality Survey, 2009 by BBS and UNICEF

#### 3.a.4.2 Surface Water

The road sub project crosses large number of water bodies such as small and medium ponds (about 8 nos.), which are used for multiple purposes. The surface water in ponds is not saline but is not suitable for drinking purposes due to various pollutions. All the ponds are manmade and used for fishing, water supply and domestic use. River Lohajang is situated few kilometres away from the sub-project area. Several small industries were observed but there is no remarkable sources of water pollution such as heavy industries, brick fields, etc observed in the sub-project area.

#### **3.a.5** Noise:

Noise is an impediment to the quality of the environment in the study area. Many vehicles such as tractor, cars, tempo, motorcycle, votvoti move on the road during day and nights. These vehicles generate noise in the subproject area but within tolerable limit. Several small industries were found near by the sub-project areas which are the major source of noise pollution.

#### 3.a.6 Air Quality

Ambient air quality data was not available. There was no a remarkable source of air pollution such as brick field observed near the sub-project area. Several small industries were found near by the sub-project areas which pollute air. Generally, quality of air is clean but due to poor condition of road surface, dust is generated that contributes to air pollution.

#### 3.Base line data:(b) Biological Environment

#### Flora & Fauna

The subproject area has some flora of commercial importance. The major tree species found in the area are Mahogany, Betel nut, Rain-tree and (in Bengali and colloquial) Simul, Sishu, Arjun, Minjiri, Krishnacura, Jarul, Hizal, Sheora, Chambal, Siris etc. No endangered floral species are reported. The dominant fruit-bearing trees include Mango, Jackfruit, Banana, Coconut, Litchi, Pine apple, Papaya etc.

Besides domestic animals, wild dogs, jungle cat, jackal, mongoose and rodents like ants and snakes of various species are reported, though having a decreasing trend. The endangered

animals like Wild cow, Wild Buffalo, Pea fowl, Mugger Crocodile etc. are not reported. Some birds found in common Bengali name include Chorui, Doel, Ghugu, Shalik, Chil, Pecha, Tia, Bok, Machranga, Bok, Kak, Tuntuni, Bou katha kow, Bulbuli, Kokil etc

#### 3.(c). Stakeholder Consultation:

During the data collection, public consultation meeting were held at Kashil UP office, Moytha New Bazar and Ayshara Bazar. The list of participants, photograph and details of the discussion meeting are attached as Annex-1 and their recommendations are highlighted below:

- All effective measures to be taken to minimize all the adverse impact of construction works.
- Steps to be taken for minimizing the air pollution by spraying water at the construction sites.
- Adequate drainage facilities at chainage 7700m, 9175m, 7575m and 8300m to 8375m should be provided to avoid water accumulations or drainage congestion.

# 4. Screening Format

Screening format was administered for identifying the impacts and their extents and the screening data sheet for this subproject is given below:

Screening Questions	Yes	No	Scale of Impact		act	Remarks
Servering Queen		110	High	Medium	Low	
A. Potential Environmental Impacts during planning and design phase/ Sub-project sitting.						
Is the sub-project area adjacent to or within any of the following environmentally sensitive areas?						
■ Protected Area (Forest)		1				The area is not included in designated protected area.
■ Wetland (Beel, Haor)		V				The area is not located in designated Wetland.
■ National Park		1				The road has no encroachment of any national park.
■ Wildlife sanctuary		1				The road is not included in any wildlife sanctuary.
■ Buffer zone of protected areas		V				The area does not belong to buffer zone of any protected area.
<ul> <li>Special area for protecting biodiversity</li> </ul>		V				The area does not belong to any special area for protecting biodiversity
B. Potential Environmental Impacts from construction of new roads.						
Will the sub-project cause						
Loss of agricultural land?		V				Required earth will not be collected from agricultural land.
Negative effects on rare (vulnerable), threatened or endangered species of flora or their habitat?		V				No rare species of flora and fauna occur near by the subproject area.
■ Negative effects on designated wetlands?		1				The area is not included in any designated wetland.
Negative effects on wildlife habitat, populations, corridors or movement?		V				No wildlife habitat reported to exist nearby the sub-project area.
Negative effects on locally important or valued ecosystems or vegetations?	V				<b>√</b>	Care will be taken, so that local important or valued ecosystem or vegetation is not damaged. Turfing will be done to compensate the loss of

Screening Questions	Yes	No	Scale of Impact		act	Remarks
Screening Questions	res	NO	High	Medium	Low	
						vegetation.
■ Destruction of trees and vegetation?	V					Vegetation may be removed during construction of road.
						Turfing will be done after the construction.
Impact on fish migration and navigation?		1				The sub-project does not cross any water bodies.
Obstruction of natural connection between river and wetlands inside project area?		V				The sub- project does not cause any obstruction to any natural connection between river and wetlands
■ Water logging in areas?	V				V	Baseline data shows that water are logged at 7700m, 9175m, 7575m and 8300m to 8375m Water logging may also occur due to construction activities. Drainage structure and sufficient opening to drain out water at the above mentioned chainage will be provided to avoid water logging.
■ Insufficient drainage?	V				V	From baseline date it has been observed that there is insufficient drainage at the above mentioned chainage. So, drainage structure will be provided to increase drainage facility.
Negative effects on surface water quality?	V				√	No liquid / solid waste will be disposed off in water bodies
Negative effects on groundwater quality, quantity or movement?		V				Liquid / solid waste will not be allowed to dispose in ground directly.
Loss of existing buildings, property, economic livelihood?		V				No land acquisition or resettlement is required
• Increased soil erosion and/or sedimentation?	V				<b>V</b>	Soil may erode during earth work at slope but turfing and compaction will be carried out after completion of earth work.
• Negative impact on soil stability and compactness?	V				√	Turfing on embankment top and slope will be provided to mitigate negative impact on

Samualina Occadiona	<b>X</b> 7	NT-	Sca	le of Impa	act	Domonko
Screening Questions	Yes	No	High	Medium	Low	Remarks
						soil stability and compactness.
■ Impacts on sustainability of associated construction waste disposal?		<b>√</b>				Construction waste will be disposed in safe place.
■ Traffic disturbances due to construction material transport and wastes?	V				V	Minimum disturbance is anticipated
■ Increased noise due to transportation of equipment and construction materials?					1	Occur some disturbance within acceptable limit
■ Increased noise due to day-to-day construction activities?	$\sqrt{}$				V	Occur some noise disturbance but within acceptable limit
■ Increased wind-blown dust from material (e.g. fine aggregate) storage areas?	V				V	Proper environmental code of practice will be in place by spraying of water during construction to reduce dust emission.
• Health risks to labors involve in activities?	V				V	Some risk during construction is anticipated which will be taken care of by adopting remedial measures incorporated in the contract
C. Potential Impacts of the Improved road.  Will the improved road cause						
■ Negative effects on neighborhood or community characters?		1				No negative effect anticipated
■ Negative effects on local business, institutions or public facilities?		V				Improved road will enhance the local business
■ Potential social conflict between occupational groups-farmers vs. fisheries?		√				The proposed road will not cause any conflict between occupational groups, e.g farmers and fishermen
■ Degradation or disturbance of historical or culturally important sites (mosque, graveyards, monuments etc.)?	,					There exists no historical or cultural important sites to be damaged/degraded by the proposed road., there exist mosques, where some care to be involved during

Screening Questions	Yes	No	Scal	le of Impa	act	Remarks
Screening Questions	168	165 140		ligh Medium Low		Remarks
						construction, where communication will be improved afterwards.
■ Blockage of navigation system?		V				No navigation system will be blocked by the road. However, if such issue arises the road alignment to diverted to avoid blockage of navigation
• Impediments to movements of people and animals?	V				V	No impediment to movement of people and impediment to movement of animals will be negligible since the road is not wide enough.
Conflicts in water supply rights and related social conflicts?		√				Will not create any social conflict over water supply rights.
• Air quality?	1				√	Construction work will involve Earth work, WBM, Brick on end Edging, Carpeting and Surface drain etc. will lead to increase in dust/suspended particulate matter (SPM) around the construction site.  Spraying of water; bituminous burning unit to be placed away from residential area, educational/religious institutions to reduce air pollution.

#### **Assessment:**

The proposed sub-project (Road improvement) is not located within any environmentally sensitive area and thus will not create intimidation to important environmental features. Drainage congestion has been observed at some locations and drainage system will be developed to minimize the water logging of those particular locations. Some earthwork will be involved, but no agricultural productive soil will be used for the purpose. Earth will be compacted for stabilization. The inputs will be mainly at construction phase and limited within project boundary. Moreover, mitigation measures will be taken according to the EMP for minimizing the air, dust and noise pollution.

#### 5. Specific Impact and Mitigation

This sub-project involves the improvement work of 11.86 km (Effective Length 3.849 km) road, which passes through different types of environmental features like pond, agricultural land, shop/bazar, mosque, school etc. For the purpose environmental studies have been carried out (with all the details of individual environmental components) since it is apprehended that, some adverse environmental effects will take place on the existing physical environment. The possible impacts of the improvement work on the road and their mitigation measures have been discussed (component-wise) below:

**5.1** Earth Work: The road improvement work consists of earth excavation, earth filling and cutting, removal of unsuitable materials or top soil, preparation of embankment layer, hard shoulder preparation, protective work, etc. These works lead to slope erosion, silt deposition on crop fields, dust blowing, noise and vibration disturbing the local people. As no massive earth work is involved at any specific location, several small volumes of earth from different areas will be arranged by the contractor. However, if large volume of earth is required, the borrow pit may be converted to deeper pond (suitable for fish cultivation).

#### Mitigation:

- Proper care will be taken during cutting and filling so that slope or toe of the road embankment remain within the right of way and does not disturb the crop.
- Turfing & compaction will be done on the shoulder and slope.
- **Temporary interruption of natural drainage and local drainage congestion:** Drainage congestion was observed at chainage 7700m, 9175m and 8300m to 8375m on the road due to insufficient drainage facilities. Water logging was also observed at chainage 7575m as the road lacks adequate opening to drain out water. Temporary interruption of natural drainage and local drainage congestion may also occur during construction of drainage structures.

#### **Mitigation:**

- Two numbers of X-drains at chainage 7700m & 9175m and one V-drain at chainage 8300m to 8375m will be provided to avoid water accumulations or congestion. These structures will be constructed newly, where no such structures exist at the locations.
- One Box-Culvert at chainage 7575m will be provided to avoid water accumulations or congestion.
- Proper diversion structure and sufficient opening to drain out water should be developed during construction of drainage structure to avoid water congestion.
- **5.3** <u>Pollution from construction materials</u>: Dumping of construction spoils, including accidental leakage of bitumen, fuel etc in equipment yards, is an important hazard. Both surface and groundwater might be polluted from these contaminants.

#### **Mitigation:**

- Safe transport, storage and disposal provisions for construction materials, equipment especially bitumen, fuel etc have to be carried out in order to avoid accidental spillage and loss.
- Bitumen, fuels, lubricants etc and other hazardous materials have to be stored over raised platform not directly on the ground.
- The playground of the educational institutions shall not be allowed to use as a stack yard or work camp site.
- **5.4** <u>Dust:</u> Different construction activities, machinery movement and other works generate dust and impair the air quality. Road improvement work involves breaking up, digging, crushing, transporting and dumping of materials.

#### Mitigation:

- Water will be sprayed to control the dust, which is the main way to suppress dust in the working site.
- **Noise:** Movement of vehicles generates noise. However, in this sub-project sensitive area like School (5 nos.), College (1 no.), Mosque (6 nos.), Health Clinic (2 nos.) etc. are likely to be affected from the road side noise.

#### **Mitigation:**

- Transportation of the construction materials have to be carried with scheduled time, mainly day time.
- All powered mechanical equipment and machinery shall be fitted with noise abating gear such as mufflers for effective sound reducing
- **5.6** Water Quality: The road passes by few number of water bodies such as pond (about 8 nos.), and there are no remarkable sources of water pollution (except some small industries) has found. The water may deteriorate if construction material including borrow/fill material and sand, construction waste, effluent from work camps, food waste etc are allowed to dump in the water bodies.

#### **Mitigation:**

- Proper construction management including waste management, training of operators and other workers will be provided to avoid pollution of water bodies.
- Construction waste will be managed in specified bins opening a ditch (not in water bodies or lowland), for which contractor will be made aware.
- **5.7** Occupational Safety and Sanitation: It involves the safety problems of the construction workers and the provision for sanitation and drinking water facilities at work sites. Lack of the latter facilities might severely affect the construction workers' health condition and work efficiency.

#### Mitigation

- Provision for tube well to ensure potable drinking water and separate toilets for male and female to maintain proper sanitation condition will be made.
- First Aid Box with health facility at each camp site will also be made available.
- Ensure wear of proper PPE (helmet, gloves, safety glass, safety shoes etc) of all workers during work to avoid any personal as well as construction related accident.

## 6. Environmental Management Plan

Specific Environmental Management Plan (EMP) has been prepared to eliminate, reduce or regulate the adverse impacts for this subproject. This EMP shall be a part of contract document.

#### **6.1 Environmental Mitigation Plan**

One of the components of Environmental Management Plan is Environmental Mitigation Plan. The environmental activities and management measures for this sub-project of RTIP-II are addressed and shown in the table below:

Sub-project	Potential	Mitigation Measures	Estimated	Responsibility	
Activity	Environmental Impact(s)		Mitigation Cost	Implementation	Supervision
Preconstruction	on				
	improper waste disposal may affect environment. Also improper sanitation facility will generate health hazard situation for the	construction camps so th	on all ts s. ad od	Contractor	LGED & D & SC
Removal of Vegetation	erosion and their		ne in section-7	Contractor	LGED & D & SC
Hot mix	polluting fumes affecting air quality, causing health hazard	Hot mix plants, crushers are batching plants shall be located at a safe distance from the nearest habitation and dense tree area. The contractor shall obtain necessary approvation LGED.	ed ne se	Contractor	LGED & D & SC

Sub-project Potential		Mitigation Measures	Estimated	Responsi	ibility
Activity	Environmental Impact(s)		Mitigation Cost	Implementation	Supervision
Identification	Indiscriminate	Location of debris dumpir		Contractor	LGED &
of debris	dumping may cause	sites shall consider th	ne in section-7		D & SC
dumping sites	nuisance to human habitat, cause	following and approved by the	ne		
	habitat, cause hindrance to natural	LGED.			
	drainage of the	• Shall not be located with	in		
	surrounding areas.	designated forest areas.	a4		
		<ul> <li>Dumping shall not impa natural drainage courses.</li> </ul>	Ct		
		Settlements are located at leas	st		
		1 km away from the site.			
Construction					
Constituction					
Earthwork	Slope erosion, silt	Proper care will be taken	As described	Contractor	LGED &
	deposition on crop fields, dust blowing	during cutting and filling so that slope or toe of the road	Section 7		D & SC
	fields, dust blowing	embankment remain within			
		the right of way and does not			
		damage the crop.			
	Improper	Adequate safety precautions		Contractor	LGED & D & SC
	transportation of construction	shall be ensured during transportation of quarry			Dase
		material from quarries to the			
Marrial	environmental	construction site. Vehicles			
Material sources		transporting the material shall be covered to prevent			
Sources	spillage	spillage. Operations to be			
		undertaken as per the			
		direction and satisfaction of			
		the LGED			
		The disposal of debris shall		Contractor	LGED &
		be carried out only at sites identified for the purpose.	Section 7		D & SC
	surrounding	All arrangement for			
	environment,	transportation during			
	particularly pollution	_			
Disposal of		provision, maintenance, dismantling and clearing			
Debris	hindrance to traffic.	debris, where necessary will			
		be considered incidental to			
		the work and should be			
		planned and implemented as approved and directed by			
		LGED.			

Sub-project	Potential	Mitigation Measures	Estimated	Responsibility		
Activity	Environmental Impact(s)		Mitigation Cost	Implementation	Supervision	
Dust	Cause air pollution	<ul> <li>Vehicles delivering materials should be covered to reduce spills and dust blowing off the load.</li> <li>In laying sub-base, water spraying is needed to aid compaction of the material. After the compaction, water spraying should be carried out at regular intervals to limit the dust to below</li> <li>Plants, machinery and equipment shall be so handled (including dismantling) as to minimize generation of dust</li> </ul>	As shown in Section 7	Contractor	LGED&D &SC	
Noise	Increase of noise level of the construction site	<ul> <li>Noise standard at processing sites, eg. Aggregate crushing plants, batching plant, hot mix plant, any machinery will be strictly monitored to prevent exceeding of noise standards.</li> <li>Workers in vicinity of loud noise, and workers working with or in crushing, compaction, concrete mixing operations shall wear</li> </ul>	As described in GCC	Contractor	LGED&D &SC	
Surface water	Contamination of surface water	<ul> <li>No excavation from the bund of the water bodies.</li> <li>No debris disposal near any water body.</li> <li>Prior written permission from authorities is required for use of water for construction activity.</li> <li>Construction labours to be restricted from polluting the source or misusing the source</li> <li>Labour camps will be located away from water bodies</li> </ul>	As described in GCC	Contractor	LGED&D &SC	

Sub-project	Potential	Mitigation Measures	Estimated	Responsi	bility
Activity	Environmental Impact(s)		Mitigation Cost	Implementation	Supervision
Water Logging	During construction work or in rainy season water	Drainage structure will be built to drain out the rain water.  During construction work, diversion structure and sufficient opening should be developed to drain out water	As per BOQ of bidding document	LGED	LGED&D &SC
Construction Safety	Improper stack yard (without fence, light, signboard) may cause accident/health hazard.  Improper equipment (not conforming the relevant standard) may lead to environmental pollution leakage of fuels, lubricants and emitting black smoke.	will be taken to prevent danger from electrical equipment.  No material or any of the sites will be so stacked or placed as to cause danger or inconvenience to any person or the public.  Fencing and lights shall be provided to protect the public			
Health and Safety Measures	Working without health safety gear (PPE) may cause injury to the workers	readily available first aid	As described in GCC	Contractor	LGED&D &SC

Sub-project	Potential	Mitigation Measures	Estimated	Responsibility					
Activity	Environmental Impact(s)		Mitigation Cost	Implementation	Supervision				
Operation Pha	Operation Phase								
Traffic Movement	Road accidents may increase due to higher number of vehicles using the roads at increased speeds.	clear and speed breaker/rumble strip		LGED	LGED				
	also marginally	Awareness building and administrative measures should be taken		LGED	LGED				

### **6.2 Environmental Monitoring Plan**

Environmental Monitoring Plan for this sub-project will help to evaluate the extent and severity of environmental impacts against the predicted impact and the performance of environmental protection measures. The following table has been prepared for monitoring the operation & maintenance phase activities of the sub-project:

Environmental	Parameters/Units	Means of	Frequency / Duration	Responsi	bilities	Estimated Cost
Indicator		Monitoring	Standards	Implementation	Supervision	Cost
Air Quality	Measurement PM	Inspection	Once	Contractor	D&SC &	According
					LGED	to GCC and
						clause 7 of
D + C + 1	G : C .	X7° 1	D '1	G	Dogg o	this report
Dust Control	Spraying of water	Visual	Daily	Contractor	D&SC &	According
					LGED	to GCC and
						clause 7 of
						this report
Noise Control	Measurement db	Inspection	Once	Contractor	D&SC &	According
					LGED	to GCC
Waste	Monitoring of	Inspection	Daily	Contractor	D&SC &	According
management	collection,				LGED	to GCC and
	transportation and					clause 7 of
	disposal of solid					this report
	waste. Inspection of					1
	construction camp.					
Health and	Monitoring health and	Inspection	Daily	Contractor	D&SC &	According
safety	safety of workers	_	-		LGED	to GCC and
						clause 7 of
						this report

# 7 Cost of Environmental Enhancement Works and Mitigation Measures in BoQ's of Bidding Document

In consideration to the above mentioned environmental impacts and their mitigation measures for this sub-project, the following items are included in the BOQ of this sub-project.

Item	Description of Item	Costs			
No.	ENVIRONMENTAL MITIGATION & ENHANCEMENT WORKS				
	Overall environmental management in addition to compliance to the clauses 27 & 29 of GCC to the entire satisfaction of E-I-C				
1	a) Temporary camp site waste disposal facility improvement 1no@Tk.50000.0	50,000.00			
	b) Dust suppression measures [4.0@Tk. 2000.00/Km]	8,000.00			
	c) Prevention of spillage, leakages of polluting materials	5,000.00			
	Providing and maintaining adequate potable water supply and sanitation facilities at camp site and work site to the entire satisfaction of E-I-C				
2	a) Water supply: 1 no of Tube well including test results @Tk.10,000.00	10,000.00			
	b) Sanitation: 2 nos. of Toilet (1 no for women and 1 no for men) @Tk. 5000.00	10,000.00			
3	Rehabilitation of ancillary sites including stockpile sites, brick crushing sites, borrow areas, workforce camp to the entire satisfaction of the Engineer in charge	30,000.00			
4	Drainage facilities improvement: Two numbers of X-drain, one Box-Culvert and one V-drain would be provided.	2706979.36			
5	Turfing on embankment top and slope [16214.29 sqm @Tk. 15.5/sqm]	251321.5			
6	Clearing and grubbing	20148.98			

#### **Annex-1: Public Consultation**

#### Public Consultations Findings for Kashil UP office-Aisara Bazar via Janjania Road

Site: Kashil UP office (chainage 0+000 km)

Road: Kashil UP office-Aisara Bazar via Janjania Road

Date: 14. 01. 2014

Time: 10.00 a.m. to 11.30 a.m.

A public consultation meeting was held during 10.00 a.m. to 11.30 a.m. on 14<sup>th</sup> January, 2014 at Kashil UP office located in the sub-project area. Around 14 people participated in the meeting. Md. Tofazzel Hossain Khan, a UP Chairman was selected by the participants to chair the meeting. Md. Babul, a Farmer, Md. Julhas Khan, a Businessman and Mrs. Hanifa Begum, UP member, were nominated by the participants to speak for them

Md. Abdul Mojid Biswas, Field Engineer and, Md. Salimur Rahman, Field Supervisor were present as Facilitators.

During the consultation the participants appreciated the road improvement project, as according to them it will improve their mode of communication, which will help various socio-economic development of the people of the area. At present they face many problems in communication due to the poor road conditions, which worsens during the rainy season.

Consultation was also continued on the potential adverse environmental impacts, which might take place during the road construction activities, like dust/air pollution, water pollution, waste disposal pollution, air pollution etc. it was also discussed that spraying of water will reduce dust pollution, although people did not considered noise pollution to be a severe one.

According to the people, road improvement is very important and they expected that all steps to be taken for reducing the environmental hazards and they also expressed to offer all cooperation required during construction of the proposed road.

The quarries of the participants were answered by Md. Abdul Mojid Biswas, Field Engineer up to their satisfaction.

The summary of the important suggestions during discussion are as follows:

- All effective measures to be adopted to minimize all the adverse impacts of construction works.
- Steps to be taken for minimizing the air/dust pollution by spraying water at the construction sites.

 Drainage facilities at chainage 7700m, 9175m, 7575m and 8300m to 8375m to be provided to avoid drainage congestion.

## **List of Participants-01**

Attendance of Local Participants in Screening Exercise

Component: RPM/EXE/UNR/GCM/RJ (Put V)

Package/Slice:

Location/Chainage: LATEN JUNE NOTED Package/Slice:

Time: LOCATION/Chainage: LATEN JUNE NOTED PACKAGE/Slice:

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Time: LOCATION/Chainage: LATEN JUNE NOTED PACKAGE/SITE PACKAGE/STORY PACK

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#### **Photograph of the Public Consultation**

#### **Annex-2: Public Consultation**

Public Consultations Findings for Kashil UP office-Aisara Bazar via Janjania Road

Site: Moytha New Bazar

Road: Kashil UP office-Aisara Bazar via Janjania Road

Date: 14. 01. 2014

Time: 12.00 p.m. to 2.00 p.m.

A public consultation meeting was held during 12.00 p.m. to 2.00 p.m on 14<sup>th</sup> January, 2014 at Moytha New Bazar located in the sub-project area. Around 15 people participated in the meeting. In consultation meeting; environmental and social issues were discussed. The main focus was to dig out information on how does indiscriminate use of natural resources cause poverty and environmental degradation by declining the homestead forests, depleting biodiversity and decreasing livelihood of people. The issue on potential impact of maintenance works has also been raised.

During the consultation the participants appreciated the road improvement project explaining their desires and expectations. The subproject will increase and improve the quality of their life. Currently, the main medium of transport is foot and some people use motor cycle for long distance travel. The sub-project will ease their turmoil and reduce their commuting time. Moreover, barrier for transporting goods and products will be removed.

From the consultation meeting, it is evident that not much people have knowledge and idea about noise pollution. Most of them are willing to tolerate noise pollution to some extent. Another problem they raised is air pollution during the maintenance work. Some of them suggested that spraying of water can minimize the dust pollution. For minimize the water pollution they expect necessary measure will be taken during maintenance work.

Field Engineer Md. Abdul Mojid Biswas and Field Supervisor, Md. Salimur Rahman were present as facilitators. Md. Tofazzel Hossain Khan, a UP Chairman was selected by the participants to chair the meeting. The participants were spontaneous and gave their full consent regarding the road improvement project.

Md. Ashraf Ali, a farmer, Md. Borhan Uddin, a businessman and Md. Anwar Hossain, a teacher were nominated by the participants to speak for them. They spoke on the project and its impact like noise and dust involved during the operation stages. Their quarries were answered by Md. Abdul Mojid Biswas up to their satisfaction.

The summary of the important suggestions during discussion are as follows:

- Effective measure to be taken to minimize all the adverse impact of construction works.
- Steps to be taken for minimizing the air pollution by spraying water at the construction sites.
- Noise pollution should be effectively mitigated in order to reduce up to a tolerable limit.

Adequate drainage facilities at chainage 7700m, 9175m, 7575m and 8300m to 8375m should be provided to avoid water accumulations or drainage congestion.

# **List of Participants-02**

kage/Slice :	1	ocation/Chainage	: Moytha Baza	re (Hew)
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*				
Name of Respondent/Participant	Gender Male/ Female	Social Status /Profession	Contact Number	Signature/ LTI
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#### **Photograph of the Public Consultation**

#### **Annex-3: Public Consultation**

#### Public Consultations Findings for Kashil UP office-Aisara Bazar via Janjania Road

Site: Ayshara Bazar

Road: Kashil UP office-Aisara Bazar via Janjania Road

Date: 14. 01. 2014

Time: 03.00 p.m. to 05.00 p.m.

A public consultation meeting was held during 03.00 p.m. to 05.00 p.m. on 14<sup>th</sup> January, 2014 at Ayshara Bazar located in the sub-project area. Around 15 people participated in the meeting. In consultation meeting; environmental and social issues were discussed. The main focus was to dig out information on how does indiscriminate use of natural resources cause poverty and environmental degradation by declining the homestead forests, depleting biodiversity and decreasing livelihood of people. The issue on potential impact of maintenance works has also been raised.

During the consultation the participants appreciated the road improvement project explaining their desires and expectations. The subproject will increase and improve the quality of their life. Currently, the main medium of transport is foot and some people use motor cycle for long distance travel. The sub-project will ease their turmoil and reduce their commuting time. Moreover, barrier for transporting goods and products will be removed.

From the consultation meeting, it is evident that not much people have knowledge and idea about noise pollution. Most of them are willing to tolerate noise pollution to some extent. Another problem they raised is air pollution during the maintenance work. Some of them suggested that spraying of water can minimize the dust pollution. For minimize the water pollution they expect necessary measure will be taken during maintenance work.

Field Engineer Md. Abdul Mojid Biswas and Field Supervisor, Md. Salimur Rahman were present as facilitators. The participants were spontaneous and gave their full consent regarding the road improvement project.

Md. Badol Mia, a farmer, Md. Gias Uddin Sarkar, a businessman and Md. Lutfor Rahman, a teacher were nominated by the participants to speak for them. They spoke on the project and its impact like noise and dust involved during the operation stages. Their quarries were answered by Md. Abdul Mojid Biswas up to their satisfaction.

The summary of the important suggestions during discussion are as follows:

- Effective measure to be taken to minimize all the adverse impact of construction works.
- Steps to be taken for minimizing the air pollution by spraying water at the construction sites.
- Adequate drainage facilities at chainage 7700m, 9175m, 7575m and 8300m to 8375m should be provided to avoid water accumulations or drainage congestion.

# **List of Participants-03**

Component: RPM/UZR/UNR/GCM/RJ (Put V)

Package/Slice:

Location/Chainage: Ay sharea Bazote.

Time: 3 PM - 5 PM

SL No	Name of Respondent/Participant	Gender Male/ Female	Social Status /Profession	Contact Number	Signature/ LTI
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**Photograph of the Public Consultation**