

Government of the People's Republic of Bangladesh

Ministry of Local Government, Rural Development and Cooperatives

Local Government Division

Local Government Engineering Department

Guidelines for

Small Scale Water Resources Development Project

**G10 Integrated Rural Development Plan
between SSWR and Rural Road/Market**

November 2017

I. Background and Objective

Local Government Engineering Department (LGED) has been conducting the Rural Infrastructure Development such as rural road, growth market center and rural market to establish rural communication network in the rural area aiming at stimulating trade and commerce in the area by their own fund and/or loan funded project by the development partners.

Subsequently from 1996 LGED has been conducting the Small Scale Water Resources Development (SSWRD) Project with the aim of poverty reduction through upgrading agricultural productivity in the rural areas. This Project has been produced more direct benefits to the beneficiary farmers.

However these developments have been conducting separately based on the different development context and related projects. Therefore it has been pointed out that through integrated development of these sectors the beneficiary farmers would be able to receive full benefit and synergistic effect, i.e. better productivity and production can be received by the SSWRD project and also the products become to be traded in better price. This concept and approach of "Integrated Development" has been introduced by the JICA Technical Cooperation Project "Capacity Development Project for Participatory Water Resources Management through Integrated Rural Development (2012-2018)" (JICA TCP). This Guideline will describe planning method of the integrated development plan.

II. Basic Concept and Planning Method of Integrated Development

2.1 Basic Concept of Integrated Development

2.1.1 Current Issues

Even the agricultural production and productivity of the subproject area has been improved by SSWRD Project, the issues remains if the related infrastructures are not improved.

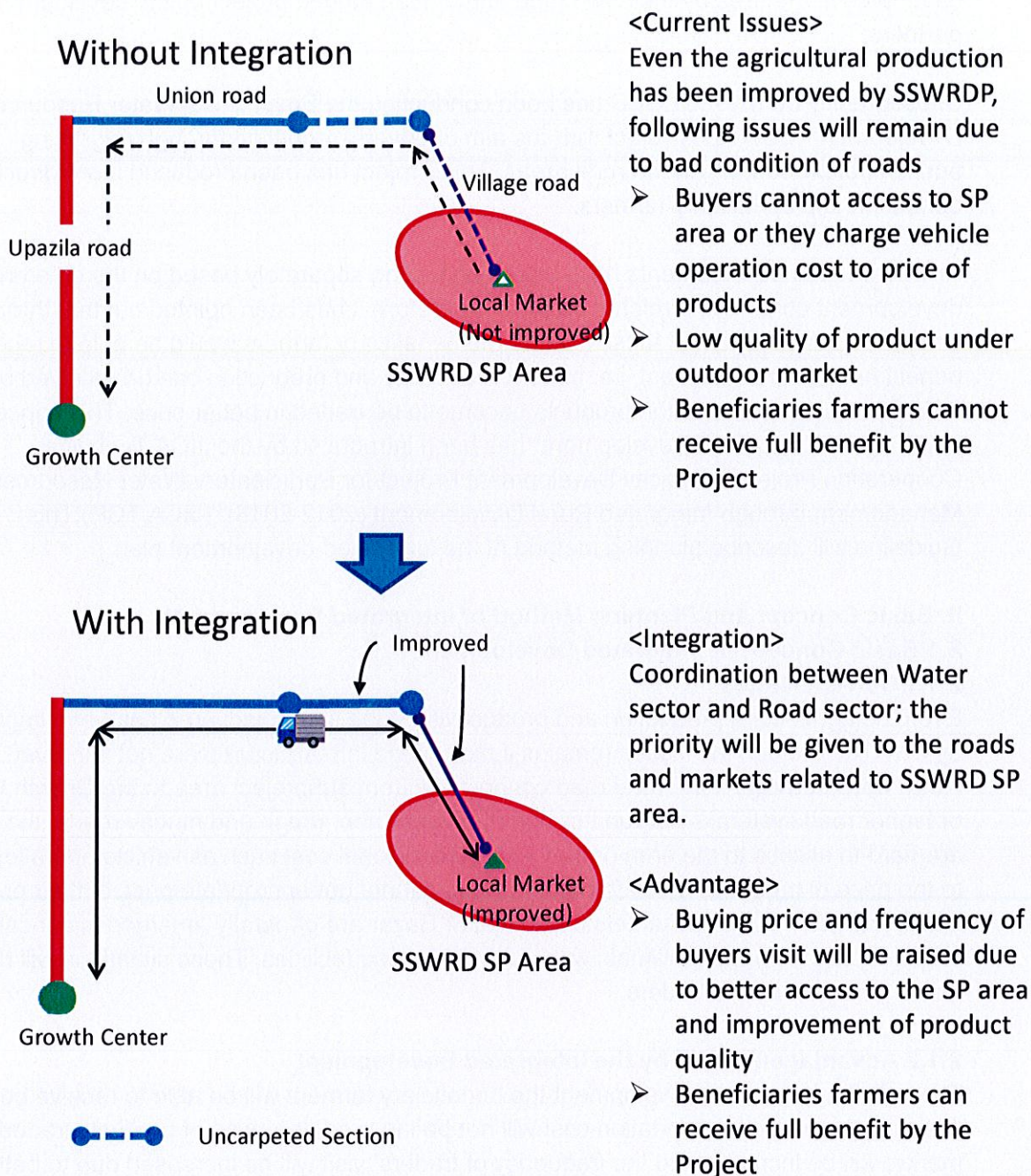
Road connectivity: If the rural road connectivity from subproject area to the Growth Center or higher road system is not run through due to earthen, rough and muddy roads, the traders are hard to access to the area or they charge additional cost such as vehicle operation cost to the price of products. Therefore the farmers cannot get appropriate price of their products.

Rural Market: The rural markets called Hat or Bazar are generally emerged in a locality by origin unplanned and still remain with not-modernized facilities. These situations will not be found attractive by the traders.

2.1.2 Advantage/Benefit by the Integrated Development

Through the integrated development the beneficiary farmers will be able to receive benefits because the extra-transportation cost will not be incurred, the price of products traded in the market will be increase and the frequency of traders' visit will be increased due to better rural road connectivity and market environment.

Figure-1: Basic Concept of Integrated Development between SSWRD and Rural Road and Market Improvement



2.2 Development Components

2.2.1 Small Scale Water Resources Development

Small Scale Water Resources Development (SSWRD) project which aims at poverty reduction through upgrading agricultural productivity in the rural areas has been conducted

from 1996 by LGED and funded by ADB and JICA. The command area of each subproject is less than 1,000ha and types of subproject are; i) Water Conservation for irrigation, ii) Drainage Improvement, iii) Flood Management, iv) Command Area Development and v) Combination of the above. The main infrastructures to be developed by the Project will be; i) Regulator, ii) Water Retention Structure, iii) Excavation of Channel, iv) Embankment and v) Buried Pipe System.

2.2.2 Rural Road Improvement

Rural Road comprises of Upazila road, Union road and Village road.

Upazila Road: Roads connecting Upazila HQ/s with Growth Centers with another Growth Center by single main connection or connecting Growth Center to Higher road system through shortest distance/route.

Union Road: Roads connecting Union HQ/s with Upazila HQ/s, Growth Centers or Local Markets or with each other.

Village Road: a) Roads connecting villages with Union HQs, rural markets, farms and boat slip or with each other b) Roads within a village.

2.2.3 Rural Market Development

The rural markets called Hat or Bazar are the bases of the micro-level commercial-economic activities in the rural area. Most of these markets are generally emerged in a locality by origin unplanned and still remain not-modernized, e.g. no covered shed and no hygienic facilities such as toilet or water supply system. These situations will not be found attractive by the traders. Therefore the rural market development will include construction of meat shed, fish shed, multi-purpose shed, women vendor, Market Management Committee office, shallow tube well, toilet, drain, internal road, parking lot, electrical connections etc..

2.3 Integrated Development Plan

2.3.1 Basic Methodology

The one of the basic concept of integrated development is to plan and implement the SSWRD project and rural road improvement project separately, not to combine both projects into one package. The reason is that i) benefited area and beneficiaries are completely different and ii) it is difficult to evaluate feasibility of the subproject which consists of different sector and benefited areas.

Even in case that the project contains both components of water sector and road sector, the plans will be developed separately. However the important point is that the development process, budget prioritization and implementation etc. will be coordinated and keep in steps with each other.

2.3.2 Planning Method

a. Plan for Small Scale Water Resources Development Subproject

The plan for Small Scale Water Resources Development Subproject will be developed as per usual based on the process and concept described in the relevant Guidelines. The way to select or identify a candidate subproject to be a “core” of the integrated development will not be discussed in this Guideline since it will largely depend on the policy of each development project and the selection criteria should be decided by each project. The candidate subproject should not be always a new subproject but possibly be an existing subproject. It should be noted that the JICA funded SSWRD loan project phase-2 (JICA-2) has components of road and market development and their selection criteria of candidate subproject is the existing subproject with most active WMCAs.

In some cases, the small road works such as culvert or farm link road may be improved within the scope of SSWRD subproject, but they should be distinguish from the road connectivity improvement component which is described below.

b. Plan for Rural Market Development

Rural markets where the agricultural products in SP area are trading will be identified. Survey will be conducted to assess the current situation and issues in the market. The plan for rural market development will include construction of meat shed, fish shed, multi-purpose shed, women vendor, market management committee office, water supply system, toilet, drain and internal road etc. .

c. Plan for Rural Road Connectivity Improvement

The most economical and major trade route using rural road through which the agricultural products in SP area are traded by the traders will be identified based on the Map of rural road and the interview from the traders and people in the market. Based on this, the survey will be conducted to identify sections which need improvement due to still earthen or damaged so called “missing sections” in the trade route.

d. Integrated Development Plan

The integrated development plan will be developed by merging these above plans for SSWR Development, Rural Market Development and Rural Road Connectivity Improvement. The format to be used for the plan and the example is shown in the Attachment-1 and 2.

Format of the Integrated Development Plan between SSWR and Rural Road and Market

Plan for SSWRD Subproject

Name of Subproject: AA Subproject			
District: A District	Upazila: B Upazila	Union: C Union	
Fund Source: JICA DD Project		Year of Development: 2020-2021	
Objective of Subproject: WC and FM		Estimated Cost: 41.5 M BDT	
Benefited Area: 300 ha		Catchment Area: 450 ha	
Main Crops: Boro Rice, Aman Rice, Vegetable (Tomato)			
Subproject Infrastructure: 4 Nos of Water Retention Structures, Excavation of DD Channel			

Plan for Rural Market Improvement

Name of Market: BB Bazar	Upazila: B Upazila	Union: C Union
Situation and Issue: no market shed, no hygienic facilities, no internal road		
Improvement Plan: Construction of Meat Shed, Fish shed, Women Vender, MMC Office, Toilet, Shallow Tube Well, Drain and Internal Road		
Fund Source: JICA DD Project	Estimated Cost: 5.0 M BDT	

Plan for Rural Road Connectivity Improvement

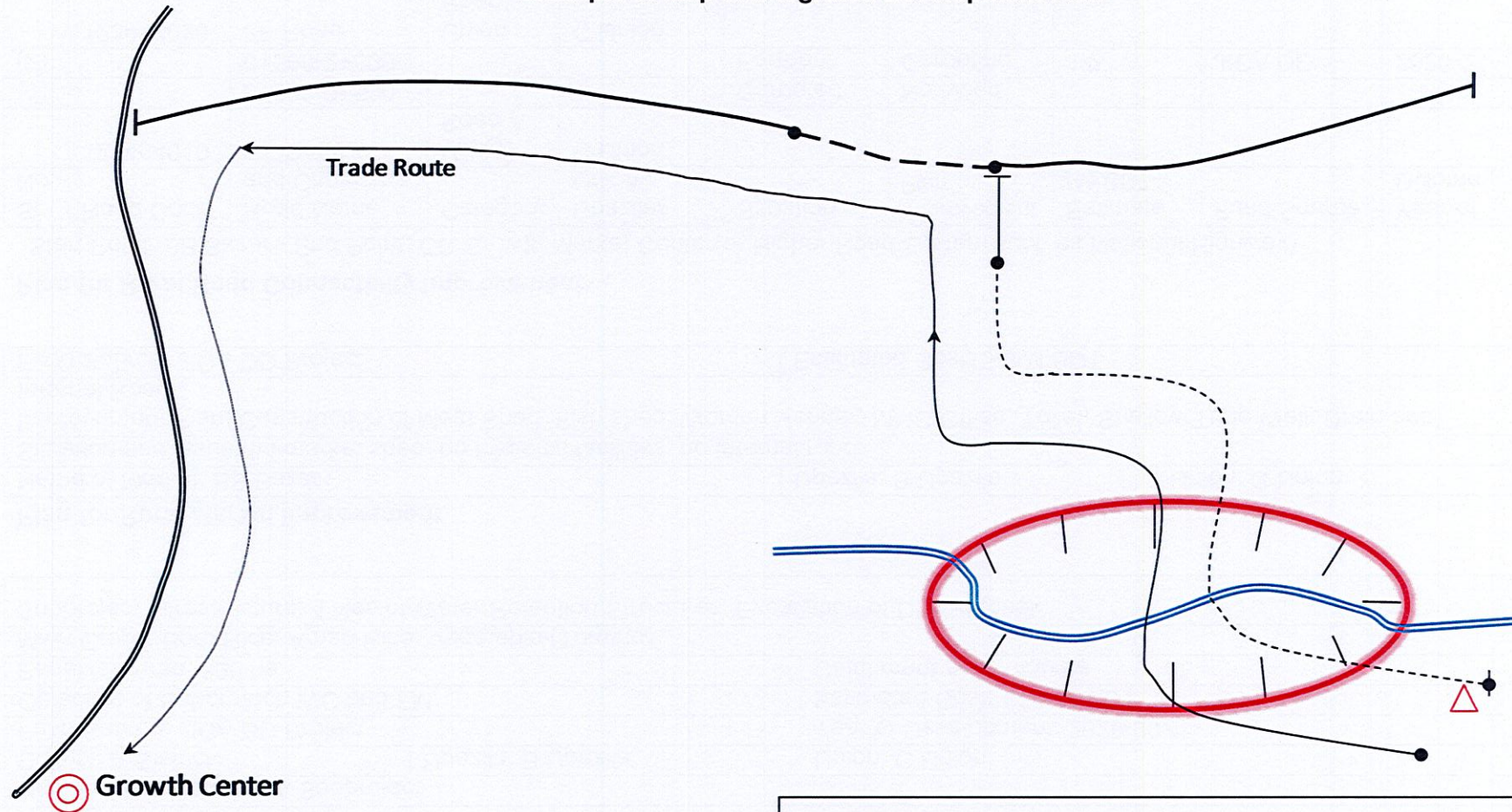
Start Point: BB Bazar - End Point: CC Growth Market Center(or Higher Road System such as National Highway)

Sr. No.	Road Code	Road Name and Chain age	Category	Upazila/ Union	Situation	Improvement Plan	Estimate (M BDT)	Fund Source	Year of Dvlpmnt.
	123454010	EE Road	Village Road A	C Union					
(1)		0+000-0+500			Carpeted	No Need			
(2)		0+500-2+500			Earthen	Carpeting	1.2	JICA DD	2020-21
	123453020	FF Road	Union Road	C Union					
(3)		0+000-4+500			Carpeted	No Need			
(4)		4+500-5+500			Earthen	Carpeting	0.6	DPP	2020-21
	123452030	GG Road	Upazila Road	B Upazila					

(5)		8+300-13+500			Carpeted	No Need			
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Attachment-2

Example of Map of Integrated Development Plan



LEGEND

Zila Road



Upazila Road



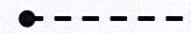
Union Road



Village Road



Uncarpeted Section



SP Area



Channel



Growth Center



Rural Market



Trade Route

