Terms of Reference (ToR)

for

Short-Term Individual Consultants of Mymensingh Strategic Development Plan

Transport Planner –1 Person (1x3 = 3 mm.)

Qualification: BURP/B.Sc. Engineering (Civil) with Master's Degree in Traffic Engineering/Transportation Planning, preferably Ph. D in relevant field.

Experience: At least 05 (five) years working experience in Transportation Planning/Traffic Engineering.

Responsibility: (i) To analyse the surveyed traffic volume, O-D and trip generation study data etc. and identify the existing pattern of traffic for the project area. (ii) To analyze transportation existing network of the project area (iii) To propose a future transportation network to establish an efficient inter and intra town circulation system and also to establish rural-urban linkage for the project area. (iv) To develop traffic prediction model of the next 20-year period for the project area by using latest available transportation related software. (v) To work with a multidisciplinary team to integrate the output of the traffic surveys and transportation studies with both attribute and spatial data of other different components of the project. (vi) To provide transportation related detailed design and drawing (nodal point, lane, turning radius, L-Section and X-section and related infrastructure design, material of the road and footpath etc.) (vii) Preparation of working paper, analytical report based on the studies and surveys; and (viii) Any other related Jobs as assigned by PD.

Urban Economist–1 Person (1x2 = 2 mm.)

Qualification: Master's degree in Economics/Development Studies or related discipline, preferably Ph.D. in relevant field.

Experience: Extensive experience in urban economic analysis. The candidate must have at least 05 (five) years working experience in urban economic analysis.

Responsibility: (i) To review and study economic growth variables of the town during the last four decades and forecast future trends up to 2050 to identify economic potential of the area. (ii) To supervise and monitor data entry, editing and presentation of data in tabular form. (iii) To analyze the data and information about GDP contribution to the economy of the project area and also data obtained from questionnaire survey of urban and rural economy including formal and informal industries. (iv) To conduct labour force analysis, shift-share analysis, and other related economic analyses to identify the economic structure of the project area, which would

be determined in consultation with the PD. (v) To propose a framework for yearly economic budget for the project area for both urban and rural administrative area. (v) To work with a multidisciplinary team to integrate the outputs of urban and rural economic study including formal and informal industrial activities and other questionnaire surveys with attribute and spatial data of other components of the project in GIS database (vi) To conduct various economic analysis including economic viability analysis and calculation of opportunity cost for the bankable projects in the area to prepare Financial Management Plan, (vii) To prepare guidelines for multi-sectoral investment program (viii) To assist other team members to the translate the trends and patterns of urban economic activities in space. (ix*) Preparation of working paper, reports with recommendations for economic development of the project area as assigned by PD;* (x) Any other related Jobs as assigned by PD.

Geologist – 1 Person (1x2 = 2 mm.)

Qualification: M. Sc. in Geology, preferably Ph.D. in relevant field.

Experience: Extensive national experience in hydro-geological analysis and engineering geological analysis as well, and land use planning. The candidate must have at least 15 (fifteen) years working experience in the relevant field with 05 (five) years' experience in urban risk reduction.

Responsibility: (i) Review of (a) Regional morphotectonic and neotectonic mapping and crustal movement modelling for the identification of potential earthquake sources, (b) Review of active faults mapping and modeling and (c) Risk and vulnerability assessment for Mymensingh paurashava prepared by CDMP and identify the engineering geological seismic risk characteristics for the project area on the basis of surveyed data of rural part of MSDP project area as per ToR of Engineering geological surveys. (ii) To prepare seismic hazard, vulnerability, damage and risk assessment map for rural part of MSDP project area. (iii) To prepare micro zonation map for the area. (iv) To provide land use based interpretation of seismic hazard map for developing guidelines to prepare risk sensitive land use plan and also to synchronize rural data with that of urban data. (v) Any other related jobs assigned by PD.

Hydrologist – 1 Person (1x2 = 2 mm.)

Qualification: B.Sc. Engineering (Civil/Water Resources Engineering) with M. Sc. in Water Resources Engineering/ Water Resources Development, preferably Ph. D. in relevant field.

Experience: At least 05 (five) years progressive experience in planning of water resource.

Responsibility: (i) Prepare guidelines for water related component of Development plan for the project area according to National Water Management Plan 2001. (ii) To classify the land area of the project area according to watershed and flood flow characteristics. (iii) To review the surface and ground water characteristics of the project area, calculate water budget of the area and also to identify the buildable and non-buildable land considering the criteria. (iv) To study the bathematric characteristics of the river for identifying the sustainability of the existing urban area and also suitable land for further urban expansion. (v) To prepare a detailed plan for rainwater harvesting at community level. (vi) To prepare 100/50/25 and annual flood plain design and detailed drainage plan for the project area. (vii) To prepare working paper, study and survey reports and (ix) Any other related jobs as assigned by PD.

Statistician – 1 Persons (1x2 = 2 mm.)

Qualification: Masters Degree statistics, applied statistics.

Experience: At least 8 (eight) years experience in management and analysis of multi-criteria data.

Responsibility: (i) Management, processing and cleaning of collected data. (ii) Multi-criteria analysis and interpretation of collected data. (iii) To prepare working paper, study and survey reports, and (ix) Any other related jobs as assigned by PD.