## GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH MINISTRY OF COMMUNICATIONS ROADS & HIGHWAYS DEPARTMENT (RHD)

# PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

#### RESETTLEMENT ACTION PLAN

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Prepared by

ORIENTAL CONSULTANTS CO., LTD.

KATAHIRA & ENGINEERS INTERNATIONAL

On Behalf of

Roads and Highways Department (RHD)

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#### **Abbreviations and Acronyms**

AB Acquiring Body

ACE Additional Chief Engineer

AE Assistant Engineer
AH Affected Household
AP Affected Person

ASA Association for Social Advancement

BA Bachelor Degree

BBS Bangladesh Bureau of Statistics

BDT Bangladesh Taka

BRAC Bangladesh Rural Advancement Committee

CBE Commercial and Business Enterprise

CCL Compensation under Law

CI Corrugated Iron

CPR Common Property Resources
CRO Chief Resettlement Officer
DC Deputy Commissioner
DCI Direct Calorie Intake

DOE Department of Environment
DoF Department of Fisheries

DCSC Design and Construction Supervision Consultant

DTL Deputy Team Leader
DPD Deputy Project Director
DPM Deputy Project Mnager
EA Executing Agency
EC Entitlement Card

EE Executive Engineer

EMA External Monitoring Agency
EMU Environment Management Unit

EP Entitled Person

ESU Engineering Service Unit

FGD Focused Group Discussion

ft foot / feet (3.28 ft = 1 m)

GDP Gross Domestic Product

GOB Government of Bangladesh

GRC Grievance Redress Committee

HIES Household Income and Expenditure Survey

HIV/AIDS Human Immunodeficiency Virus / Acquired Immune Deficiency

Syndrome

HH Household

HSC Higher Secondary Certificate

IA Implementing Agency

ID Card Identify Card

IGA Income Generating Activities

IOL Inventory of Losses

IR Involuntary Resettlement

IWTA Inland Water Transport Authority

JICA Japan International Cooperation Agency

JVS Joint Verification Survey

LGI Local Government Institution

LGED Local Government Engineering Department

LMS Land Market Survey

LIRP Livelihood and Income Restoration Program

MA Master Course

M&E Monitoring & Evaluation

MIS Management Information System

MOL Ministry of Land

MOC Ministry of Communications NGO Non-government Organization

NH-1 National Highway No.1

NRS National Resettlement Specialist

the Ordinance Acquisition and Requisition of Immovable Property Ordinance 1982

PAH Project Affected Household
PAP Project Affected People
PAU Project Affected Unit

PAVC Property Assessment and Valuation Committee

PCU Passenger Car Unit

PIU Project Implementation Unit

PD Project Director

PDB Power Development Board
PIB Public Information Brochure

PMO Project Management Office

PPR Project Progress Report

PPTA Project Preparatory Technical Assistance

PRA Participatory Rapid Appraisal
PWD Public Works Department

R&R Resettlement and Rehabilitation

RAC Resettlement Advisory Committee

RAP Resettlement Action Plan

RB Requiring Body

RE Resettlement Expert

RF Resettlement Framework

RHD Roads & Highways Department

RO Resettlement Officer

ROR Record of Right
ROW Right-of-Way

RV Replacement Value

SAE Sub-Assistant Engineer
SDE Sub-Divisional Engineer
SE Superintending Engineer
SES Socioeconomic Survey

SSC Secondary School Certificate

TA Technical Assistance

UP Union Paridhad

TOR Terms of Reference
VHH Vulnerable Household

WB World Bank

#### **EXECUTIVE SUMMARY**

The Government of Bangladesh (GoB) has undertaken a project to construct three Bridges on National Highway No.1 (NH-1) i.e. Kanchpur, Meghna and Gumti Bridge including rehabilitation of the existing bridges through the Roads and Highways Department (RHD) under the Ministry of Communications (MOC) with financial assistance from the Japan International Cooperation Agency (JICA). The project involves construction of new bridges parallel to the existing bridges with approach road. The length of the bridges including viaduct are Kanchpur 400 m, Meghna 930 m and Gumti 1,410 m respectively. The overall objective of the Project is to mitigate the increasing traffic demand of NH-1, which can be made by;

- i. Construction of new 2<sup>nd</sup> Kanchpur Bridge, 2<sup>nd</sup> Meghna Bridge and 2<sup>nd</sup> Gumti Bridge together with approach road respectively.
- ii. Rehabilitation of existing Kanchpur Bridge, Meghna Bridge and Gumti Bridge

Land Acquisition and Displacement: Construction of the new bridges and rehabilitation of the existing bridges will require no land acquisition. All components of the project will be constructed on the RHD land. But the project interventions will require displacement of about 278 project affected households (PAHs) including 175 residents (residential 107 and commercial 61, three both residential and commercial squatters, one pond owner, one tree owner and two common properties), 103 tenants (residential 98 and commercial 5), have been affected. Besides, 28 wage laborers (shop workers) will also experience loss of livelihoods.

**Significance of Impacts**: All physically displaced project affected households (PAHs) will experience significant impacts as a result of displacement. Mitigation of all impacts, including the significant resettlement impacts, will be undertaken through implementation of this Resettlement Action Plan (RAP). The RAP identified, and proposed number of remedial measures for addressing the gaps between national legislation and the requirements of Development Partner (such as JICA)'s Policy on Involuntary Resettlement.

**Indigenous People:** There are no indigenous people (tribal or ethnic minority) within the affected population..

**Compensation and Entitlements:** The affected persons (APs) will be compensated for their affected structure, trees, cropping field, ponds, business, both squatters and tenants staying on the government land. Compensation is to be paid by the RHD through an NGO/consulting firm

to be engaged by the Design and Construction Supervision Consultant (DCSC) to assist RHD in RAP implementation process. Compensation is based on entitlements including: (i) replacement value for structures, tree, etc. and (ii) other resettlement assistance as required such as transfer grants, re-installation grant (except replacement value) and compensation for loss of business/wage due to dislocation etc. Vulnerable households will be eligible for further cash assistance for relocation and resettlement to improve their living condition. RAP Implementing Agency (IA) will assist the APs in searching alternative relocation sites and in the relocation process. The entitlements as per loss category are presented in Table EX-1 below.

**Disclosure, Consultation and Participation**: The Displaced Persons (DPs) and their community have been consulted for their perception on the compensation payment process, scope and importance of participation in the project process, relocation requirements, etc. While conducting survey and the group discussions, personal contact and community based stakeholder consultation meetings were held at different stages of the project formation to seek opinions of the various stakeholders on the project. At least 2 formal stakeholder consultation meetings were held at Kanchpur and Meghna and 7 focused group meetings were held with different occupational groups in three bridges. Besides, the RAP disclosure meetings were held in three bridge locations on first August 2012.

For first stage and second stage (consultation and disclosure) meetings, the people were informed through a notice published in the national Daily newspapers and verbal notice through community leaders. During the implementation of the RAP more stakeholders consultation and focused group meetings will be held to seek cooperation from various stakeholders in the decision-making and implementation of the RAP. The RAP will be summarized in an information booklet in Bangla (local language) and disclosed to the affected people during implementation period. The APs will participate in the RAP implementation process through representation in the Grievance Redress Committees (GRCs).

**Eligibility of Cut-off Date**: All of the APs are identified on the RHD land and no new land acquisition is required for the project. This is why the commencement date of census survey is declared as the cut-off date for eligibility of resettlement benefit for the properties standing on the GoB land. In this project the date of commencement of census i.e. 8<sup>th</sup> March 2012 in Kanchpur Bridge, and 15<sup>th</sup> March 2012, in Meghna and Gumti Bridge is declared as cut-off date.

#### **Table EX-1 Entitlement Matrix**

#### **Table 5.2 Entitlement Matrix**

| Loss Item 1: LOSS OF PHYSICAL STRUCTURES RESIDENTIAL AND COMMERCIAL (WITHOUT TITLE TO LAND)   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>Entitled Persons</b>   | Entitlements   | Application Guidelines   | Additional Services  |  |  |
| Socially recognized owners (Squatters) of structures built on the ROW as identified by Census | <ol> <li>Replacement Value<sup>1</sup> (RV) for structure</li> <li>Transfer Grant @ BDT 7 (seven) per sft<sup>2</sup> of affected structure.</li> <li>Utility reconnection assistance @BDT2,000/household</li> <li>Removal grant for billboards as lump sum @ BDT 200,000/ number</li> <li>Special Assistance of a one-time payment as recommended by PAVC for each vulnerable households (VHH) i.e. female-headed, disabled-headed, elderly-headed and hardcore poor household with an amount of BDT 10,000/VHH.</li> <li>BDT 12,000/- as one time grant in addition to other compensation for female headed including disabled/handicapped/widow member family.</li> <li>Skill Training for vulnerable households is provided by IA.</li> <li>Owner will be allowed to take all salvageable materials free of cost.</li> </ol> | <ol> <li>PAVC will record structures and recommend the RV of structures.</li> <li>Compensation will be paid for the structures built by the RHD and employees of RHD.</li> </ol> | RAP Implementing     Agency (IA) will     assist the APs in     finding alternative     site for relocation. |  |  |

#### **Implementation Issues**

- 1. Entitled person will be identified through the Census survey to be conducted by IA and RHD at the detailed design stage.
- 2. RV of structure will be determined by PAVC
- 3. Compensation must be paid before EP dismantles and removes the structures as per civil works requirement by RHD through IA.

As determined based on the result of replacement cost survey conducted by study team and to be recommended by PAVC

Based on Padma Bridge Project (2010) financed by WB, ADB, JICA and IDB because of the proximity of the area and year the survey conducted, the value used for this project is considered to be applicable in due consideration of recent price level.

Based on Southwest Area Integrated Water Resources Planning Management Project (2011) financed by ADB

| Entitled Persons   | Entitlements  | Application Guidelines  | Additional Services |
|--|---|---|---------------------|
| I. Socially recognized owners, as have contract documents with land owner, of trees and crops grown on public or other land, as identified by IA and verified by PAVC. | notice by the RHD to harvest the crops. If it is not near harvesting period, the expected yield | <ol> <li>Applicable for all crops/fish stock on land/pond within ROW at the time of dispossession.</li> <li>If the tree is planted on the RHD land by taking lease, compensation for trees will be paid following the clause of the lease agreement signed between the parties<sup>4</sup></li> <li>RV of trees/crops/fish stock will be recommended by PAVC based on data obtained from forest department/ district agriculture extension office/ district marketing office/fishery department respectively/market survey, etc. for those identified through joint on-site verification by PAVC</li> </ol> | Nil                 |

<sup>&</sup>lt;sup>4</sup> Usually, the lease contract is made to pay half of the total sales (market price) to the land owner. Therefore, half price of planted trees is paid to tree owners. Rest half is not required to be paid since the land owner is RHD

| <b>Entitled Persons</b>   | Entitlements   | Application Guidelines   | Additional Services |
|---|--|--|---------------------|
| . Actual cultivators, without consent to land owner, as identified in census by IA and verified by PAVC during implementation of RAP. | <ol> <li>The crop owners will be issued 60 days prior notice by the RHD to harvest the crops. If it is not near harvesting period, the expected yield will be compensated at RV.</li> <li>In addition, grants for loss of access (right of cultivating) to cultivable land equivalent to the crop harvested in one harvested season, to be verified by PAVC.</li> <li>RV of fish stock, and trees as determined by PAVC</li> <li>Owners will be allowed to harvest crops and fish stock and fell the trees.</li> </ol> | recommended by PAVC based on data obtained from forest department/ district agriculture extension office/ district marketing |                     |

| Loss Item 4: LOSS OF INCOME (BUSINESS OWNER, WAGE EARNERS AND RENT-OUT HOUSE OWNER)  |   |   |   |  |
|--|---|---|---|--|
| <b>Entitled Persons</b>  | Entitlements  | Application Guidelines  | Additional Services   |  |
| 1. Small shop owner affected by displacement 2. Wage earners affected at business enterprises 3. Owner of rent house/rooms affected by the Project | 1. Grants for business loss and/or for loss of rental income with an amount equivalent to three months net income not exceeding BDT. 24,000 <sup>5</sup> .  or  2. Grant to cover temporary loss of regular wage income @ BDT 250 <sup>6</sup> for 90 days and  3. Special Assistance of a one-time payment as recommended by PAVC for each vulnerable households (VHH) i.e. female-headed, disabled-headed, elderly-headed and hardcore poor household with an amount of BDT 10,000/VHH.  4. BDT. 12,000/- as one time grant in addition to other compensation for only female headed without elderly support disabled/ handicapped/widow member family.  5. Skill training for vulnerable households is provided by | The need of vulnerable groups will be assessed by IA through the need assessment survey <sup>7</sup> in the detailed design stage | 1. EPs will be brought under income generation program based on need assessment survey result.  2. EPs will be preferentially employed in civil construction work.  3. EPs who lose structure will also be entitled for loss Item 1.  4. EPs who rent premises will also be entitled for loss Item 5. |  |
|  | trainer NGO   |   |   |  |

#### **Implementation Issues:**

- IA identifies EPs at census, PVAC verifies the compensation amount, and RHD, thorough IA, pays the compensation. 1.
- 2. Business losses have been assessed during inventory of losses. All categories of business will be paid equal amount as grant

As were estimated based on the maximum average daily income of BDT 250/day x 30 days x 3 months and is a little less than BDT 24,000.
 BDT 250 is likely the average of payment per day according to the socio-economic survey implemented.
 Socio-economic survey made to meet demand and supply. To survey the demands of skills (what skill wanted) from enterprise owner and skills the affected people want to attain.

| <b>Entitled Persons</b>   | Entitlements   |    | <b>Application Guidelines</b>          |    | Additional Services    |
|---------------------------|--|----|--|----|------------------------|
| . Rentee (who borrows     | 1. Rental assistance for both residential and commercial   | 1. | Each rentee of affected premises will  | 1. | EPs will be brought    |
| residential structure) as | rentee as per the prevalent rate in the form of grant to   |    | be entitled for shifting assistance    |    | under income           |
| identified by Census and  | cover maximum of 3 months rental but not exceeding         | 2. | RHD employees erected structures by    |    | generation program.    |
| verified by PAVC          | BDT. 7,500 <sup>8</sup>                                    |    | their own will be compensated as RV    | 2. | IA assists finding new |
| Rentee (who borrows       | 2. Actual shifting assistance to be determined by PAVC, or |    | allowed taking away salvage materials. |    | rent-out house.        |
| structures) for his       | BDT 500 per member up to BDT 5,000 per rentee              |    |  |    |                        |
| business identified by    | residential household                                      |    |  |    |                        |
| Census and verified by    | 3. If advance rental payment was already made by rentee to |    |  |    |                        |
| PAVC                      | renter, and renter would not reimburse the advanced        |    |  |    |                        |
|                           | payment to rentee, then payment of allowance to            |    |  |    |                        |
|                           | renter will be deducted from owners' resettlement          |    |  |    |                        |
|                           | assistance package and paid back to the rentee up to the   |    |  |    |                        |
|                           | ceiling (3 months' allowance) of owners entitlements       |    |  |    |                        |
|                           | with GRC approval  |    |  |    |                        |
|                           | 4. Right to salvage materials from demolished structure    |    |  |    |                        |
|                           | erected by tenant.   |    |  |    |                        |
|                           | 5. Special Assistance of a one-time payment as             |    |  |    |                        |
|                           | recommended by PAVC for each vulnerable households         |    |  |    |                        |
|                           | (VHH) i.e. female-headed, disabled-headed,                 |    |  |    |                        |
|                           | elderly-headed and hardcore poor household with an         |    |  |    |                        |
|                           | amount of BDT 10,000/VHH.                                  |    |  |    |                        |
|                           | 6. BDT. 12,000/- as one time grant in addition to other    |    |  |    |                        |
|                           | compensation for only female headed without elderly        |    |  |    |                        |
|                           | support disabled/ handicapped/widow member family.         |    |  |    |                        |
|                           | 7. Skill training for vulnerable households is provided by |    |  |    |                        |
|                           | trainer NGO  |    |  |    |                        |

#### **Implementation Issues:**

- 1. IA identifies EPs at census, PVAC verifies the compensation amount, and RHD, thorough IA, pays the compensation.
- 2. Payment shall be done before physical relocation of EPs.

<sup>8</sup> Average rental fee per month is less than BDT 2,500 per month according to socio-economic survey

| Loss Item 6: UNFORESEEN ADVERSE IMPACTS (IF APPLICABLE)                  |  |   |                |  |  |  |  |  |  |  |
|--|--|---|----------------|--|--|--|--|--|--|--|
| Entitled Persons Entitlements Application Guidelines Additional Services |  |   |                |  |  |  |  |  |  |  |
| Households or persons affected by any                                    | Entitlements will be recommended as necessary by | The unforeseen impacts will be identified | As appropriate |  |  |  |  |  |  |  |
| unforeseen impact identified during                                      | GRC.   | through special survey by the PAVC as per |                |  |  |  |  |  |  |  |
| implementation of the RAP  |  | request from impacted population. The     |                |  |  |  |  |  |  |  |
|  |  | entitlements will be approved by the      |                |  |  |  |  |  |  |  |
|  |  | Ministry of Communication (MOC)           |                |  |  |  |  |  |  |  |
| Implementation Issues:   |  |   |                |  |  |  |  |  |  |  |
| TEL C 1 CC 1   |  | AD 1 1/4 MOCC 11 1                        | 1' (1 C1 (1 1  |  |  |  |  |  |  |  |

The unforeseen impacts and affected persons will be identified with due care as per policy of RAP and proposed to the MOC for approval including quantity of losses, their owners and the entitlements.

Grievance Redress Mechanism: Through public consultations and distribution of the public information booklet, APs will be informed that they have a right to resolve any grievance/ complaints they may have regarding resettlement issues. Grievances will be settled with full representation in GRCs constituted by the Ministry of Communications with representatives from the Executing Agency (EA)- here RHD, the RAP IA to be engaged to assist RHD in RP implementation, local government institutions (LGI) representatives and the APs representatives to be selected by RHD in consultation with IA, LGI representative and Resettlement Specialist/Expert form Design and Construction Supervision Consultant. The APs will call upon the support of the IA to assist them in presenting their grievances to the GRCs. The GRCs will review grievances involving all resettlement benefits, relocation and other assistance. Grievances will be redressed within 21 days from the date of lodging the complaints.

**Income Restoration Strategy**: Vulnerable Project Affected Households (PAHs) (including hardcore poor and female headed, elderly headed, etc.) will be given additional support for livelihood and income restoration.

Institutional Arrangements: A Project Implementation Unit (PIU) will be established by RHD headed by the Project Director at the rank of Additional Chief Engineer. Superintending Engineer and Executive Engineers will be also in place to handle the project activities. The PIU will be responsible for coordinating and overall execution of the project including payment of compensation/resettlement benefits to the entitled persons (EPs) before relocation. The DCSC will appoint an IA for implementation of the RAP for proper resettlement and rehabilitation of the project affected people before and after relocation.

**Cost Estimate and Budget**: The total indicative cost estimate for implementation of the RAP is **BDT 84,768,648** (Eighty four million seven hundred sixty eight thousand six hundred forty eight) equivalent to USD 1,033,763 (1 USD=82 BDT as of July 2012.) It includes payment of compensation for structure & resettlement benefits with other allowances, training on income generating activities, operation cost of the RAP IA and external monitoring agency (EMA) of the RAP implementation. The total estimated budget is shown in the Table EX 2 below.

Besides, the RAP has kept provision of the budget for structures made by RHD at Kanchpur Bridge and Gumti Bridge which are required to be demolished due to the approach road or construction yard. The unit rates of the RHD structures are same as other affected structures. The total budget for the RHD structures stand at **BDT 29,121,415** (USD 355,139). RHD will pay this amount to the local road division as per RHD rule.

**Table EX 2: Summary of Resettlement Cost for Project** 

|   | Category of Losses                       | Kanchpur<br>(BDT) | Meghna<br>(BDT) | Gumti<br>(BDT) | Total Budget<br>(BDT) |
|---|--|-------------------|-----------------|----------------|-----------------------|
| Α | Compensation for structure               | 47,088,661        | 4,452,370       | 2,540,550      | 54,081,581            |
| В | Compensation for Trees                   | 838,333           | 4,533,750       | 0              | 5,372,083             |
| С | Other Resettlement Benefits              | 5,249,603         | 519,062         | 607,480        | 6,376,145             |
| D | Training on IGA for eligible members     | 560,000           | 8,000           | 72,000         | 640,000               |
|   | of affected households and wage laborers |                   |                 |                |                       |
| Е | Approximately 3 Trainers for 10 days     | 90,000            | 0               | 0              | 90,000                |
|   | each @BDT 3000/day/person                |                   |                 |                |                       |
| F | RHD Capacity Building Training           | 1,000,000         | 500,000         | 500,000        | 2,000,000             |
| G | Operation cost for RAP Implementing      | 5,000,000         | 2,575,000       | 2,575,000      | 10,150,000            |
|   | Agency **                                |                   |                 |                |                       |
| Н | Operation cost for External Monitoring   | 500,000           | 300,000         | 200,000        | 1,000,000             |
|   | Agency (EMA)                             |                   |                 |                |                       |
| I | Contingency @ 10% of the Total A-H*      | 3,235,577         | 1,288,818       | 534,444        | 5,058,839             |
|   | Total                                    | 63,562,174        | 14,177,000      | 7,029,474      | 84,768,648            |
|   | Total (USD)                              | 775,148           | 172,890         | 85,725         | 1,033,763             |

Note: USD 1 = BDT 82 as of July 2012

**Implementation and Monitoring**: Internal monitoring of RAP implementation will be the overall responsibility of the PIU and the DCSC/RAP-IA. The EA along with Resettlement Specialist/Expert of the DCSC will independently be monitoring implementation of RAP as per the guideline as well as assessing the ability of project affected households (PAHs) to restore their living standards and livelihoods to pre-project levels. An external monitoring agency will be engaged by RHD during RAP implementation for ongoing verification.

<sup>\*10%</sup> of the total budget excluding RHD compensation

<sup>\*\*</sup>including operation cost for GRC and PAVC

#### **Glossary of Terms**

Affected Person (AP): includes any person, affected households (AHs), firms or private institutions who, on account of changes that result from the project will have their (i) standard of living adversely affected; (ii) right, title, or interest in any house, land (including residential, commercial, agricultural, forest, and/or grazing land), water resources, or any other moveable or fixed assets acquired, possessed, restricted, or otherwise adversely affected, in full or in part, permanently or temporarily; and/or (iii) business, occupation, place of work or residence, or habitat adversely affected, with or without displacement.

**Assistance:** means support, rehabilitation and restoration measures extended in cash and/or kind over and above the compensation for lost assets.

*Compensation*: means payment in cash or kind for an asset to be acquired or affected by a project at replacement cost at current market value.

*Cut-off date*: means the date after which eligibility for compensation or resettlement assistance will not be considered is the cut-off date. Date of service of notice under Section 3 of Land Acquisition Ordinance is considered to be the cut-off date for recognition of legal compensation and the starting date of carrying out the census/inventory of losses or any designated date declared by the RHD will be considered as the cut of date for eligibility of resettlement benefit for the properties standing on the GoB land and not covered by Deputy Commissioner (DC). In this Project the dates of commencement of census i.e. 8<sup>th</sup> March 2012 in Kanchpur and Meghna and 15<sup>th</sup> March 2012 in Gumti Bridge are declared as cut-off date.

*Encroachers*: mean those people who move into the project area after the cut-off date and are therefore not eligible for compensation or other rehabilitation measures provided by the project. The term also refers to those extending attached private land into public land.

**Entitlement:** means the range of measures comprising cash or kind compensation, relocation cost, income restoration assistance, transfer assistance, income substitution, and business restoration which are due to AHs, depending on the type and degree /nature of their losses, to restore their social and economic base.

*Eminent Domain*: means the regulatory authority of the Government to obtain land for public purpose/interest or use as described in the 1982 Ordinance and Land Acquisition Law.

*Household*: A household includes all persons living and eating together (sharing the same kitchen and cooking food together as a single-family unit).

*Inventory of losses*: means the pre-appraisal inventory of assets as a preliminary record of affected or lost assets.

**Non-titled**: means those who have no recognizable rights or claims to the land that they are occupying and includes people using private or public land without permission, permit or grant i.e. those people without legal title to land and/or structures occupied or used by them. WB's policy explicitly states that such people cannot be denied resettlement assistance.

**Project**: means Dhaka-Chaittagong National Highway (NH-1) Bridge Construction and Rehabilitation Project

**Project Affected Household**: combines residential households (HHs), commercial and business enterprises (CBEs), common property resources (CPRs) and other affected entities as a whole.

**Relocation**: means displacement or physical moving of the APs from the affected area to a new area/site and rebuilding homes, infrastructure, provision of assets, including productive land/employment and re-establishing income, livelihoods, living and social systems

**Replacement value**: means the value of assets to replace the loss at current market price, or its nearest equivalent, and is the amount of cash or kind needed to replace an asset in its existing condition, without deduction of transaction costs or for any material salvaged.

**Resettlement**: means mitigation of all the impacts associated with land acquisition including restriction of access to, or use of land, acquisition of assets, or impacts on income generation as a result of displacement due to the Project.

*Significant impact*: means where 200 or more APs suffer a loss of 10% or more of productive assets (income generating) or physical displacement.

**Squatters**: means the same as non-titled and includes households, business and common establishments on land owned by the State. Under the project this includes RHD land, slope of the existing road and right of way of the proposed bridge alignments.

*Structures*: mean all buildings including primary and secondary structures of houses and ancillary buildings, commercial enterprises, living quarters, community facilities and infrastructures, shops, businesses, fences, and walls.

**Vulnerable Households:** means households that are (i) headed by single woman or woman with dependents and low incomes; (ii) headed by elderly/ disabled people without means of support; (iii) households that fall on or below the poverty line; (iv) households of indigenous population or ethnic minority; and (v) households of low social group or caste.

<sup>&</sup>lt;sup>9</sup> The poverty lines (updated for 2008) to be cited in the RAP as per Bangladesh Bureau of Statistics (BBS) report.

#### **CHAPTER 1. INTRODUCTION**

### 1.1 Description of the National Highway No.1 –Bridges Construction and Rehabilitation (the Project)

The National Highway No.1 (NH-1), namely, Dhaka-Chittagong Highway, is the lifeline for economy of Bangladesh with a capacity of 25,000 Passenger Car Unit (PCU) per day on 2-lane section and 60,000 PCU per day on 4-lane section. The NH-1 will be a part of the Asian Highway that connects with neighboring countries. On this highway, existing Kanchpur, Meghna and Gumti Bridges are major structures, which are the only way to cross Sitalakhya, Meghna and Gumti rivers. But, these bridges, constructed in the year of 1977, 1991 and 1995, respectively, are being deteriorated for several years. Consequently, they need urgent rehabilitations. In addition, the existing bridges were designed and constructed according to the outdated design standard. Therefore, these existing bridges may necessitate seismic retrofitting to withstand earthquake excitations in accordance with current codes.

According to the traffic survey conducted in this study (conducted in February and March, 2012), the NH-1 almost exceeded its traffic volume capacity to 78,000 PCU counted on Kanchpur Bridge and 73,300 PCU on Meghna and Gumti Bridges. Recently, the Government of Bangladesh has decided to widen NH-1 into 4 lanes in order to mitigate excess traffic volume and remove traffic bottlenecks. But, these existing 2-lane bridges are becoming a critical bottleneck for traffic movement through NH-1. It is obvious the existing 2-lane bridges will fail to cope with increased traffic volume of the NH-1 and cause serious traffic congestion. Therefore, the construction of 2<sup>nd</sup> Kanchpur, 2<sup>nd</sup> Meghna and 2<sup>nd</sup> Gumti Bridges are becoming an essential issue.

#### 1.2 Objective and Purpose of the Resettlement Action Plan (RAP)

The objectives of the RAP are:

- a) To assess the nature and magnitude of the likely displacement,
- b) To explore all viable alternative project designs to avoid, where feasible, or minimize displacement,
- c) To assess the legal framework covering resettlement and policies of the government and implementing agencies,
- d) To identify any inconsistencies between such policies and the JICA's policy,

- e) To review past borrower and likely implementing agencies' experience with similar operation,
- f) To discuss with the agencies responsible for resettlement the policies and institutional, legal, and consultative arrangements for resettlement, including measures to address any inconsistencies between government or implementing agency policies and JICA policy and,
- g) To discuss any technical assistance to be provided to the recipient government.

Due to the existing urgency to keep smooth road communication with eastern zone of Bangladesh especially port city Chittagong, the Roads and Highways Department (RHD) has planned to construct three Bridges parallel to the existing Kanchpur, Meghna and Gumti Bridges, the RAP is prepared in accordance with the requirements of the JICA environmental and social considerations.

This is the RAP for "Dhaka-Chittagong National Highway No.1- Bridges Construction and Rehabilitation Project". The purpose of this RAP is to address the social impact caused by the Project, proposing mitigation measures such as compensation, assistance etc to the Project affected people, content of which RAP was secured by RHD as per the requirement of JICA Guideline. This RAP is based on a detailed baseline survey carried out to understand the existing situation at each of the Project sites in March to July in 2012.

#### **CHAPTER 2. POTENTIAL IMPACTS**

#### 2.1 Outline of the Project

The overall objective of the Project is to meet the increasing traffic demand of NH-1, which can be made by

- a) Construction of 2nd Kanchpur Bridge, 2nd Meghna Bridge and 2nd Gumti Bridge together with approach embankment road respectively.
- b) Rehabilitation existing Kanchpur Bridge, Meghna Bridge and Gumti Bridge Location of the project is shown in Figure 2.1 and Table 2.1.

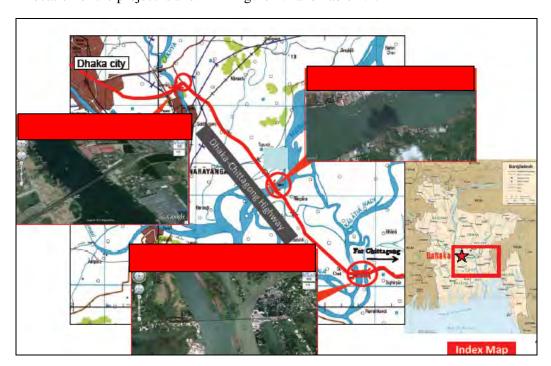


Figure 2.1 Location of the Three Bridges

**Table 2.1 Location of the Bridges** 

| Name of the Bridge | Side       | District    | Upazila      | Union      |  |  |  |  |  |  |
|--------------------|------------|-------------|--------------|------------|--|--|--|--|--|--|
| Vanahaan Daidaa    | Dhaka      | N:          | Siddhirganj  | Shimrail,  |  |  |  |  |  |  |
| Kanchpur Bridge    | Chittagong | Narayanganj | Sonargaon    | Kanchpur   |  |  |  |  |  |  |
| Maahna Dridaa      | Dhaka      | Narayangonj | Sonargaon    | Pirojpur   |  |  |  |  |  |  |
| Meghna Bridge      | Chittagong | Munshigonj  | Gajaria      | Baliakandi |  |  |  |  |  |  |
|                    | Dhaka      | Munshigan   | Gajaria      | Baushia    |  |  |  |  |  |  |
| Gumti Bridge       | CI :::     |             | Daudkandi    |            |  |  |  |  |  |  |
|                    | Chittagong | Comilla     | Municipality |            |  |  |  |  |  |  |

The three bridges located in three (3) different districts on NH-1 and their approach roads can

are constructed within RHD land. Additional land acquisition will not be required for the Project components. However, some squatters, tenants, residential households, and commercial enterprises will be affected due to the Project.

Affected areas include locations of construction of new bridges, embankments for approach road, temporary road for construction and construction yards. Among the above the most serious component is the construction of embankment for approach road (permanent impact) and secondly, the installation of construction yard (tentatively impact during construction period only), which cause removal of people outside of those areas. .

Outline of the Project is summarized in Table 2.2.

**Table 2.2 Outline of the Project** 

| Description     |                  | Kanchpur         | Meghna           | Gumti            |  |
|-----------------|------------------|------------------|------------------|------------------|--|
| Project Area (m | )                | 1,296.5          | 1,930.0          | 2,410.0          |  |
| Characteristics | Length m         | 396.5            | 930.0            | 1,410.0          |  |
| of 2nd bridges  | Width m          | 18.4             | 17.75            | 17.75            |  |
|                 | Navigation       | width: 61m       | width: 75m       | width: 75m       |  |
|                 | clearance m      | height: 12.2m    | height: 18m      | height: 7.5m     |  |
| Pier of 2nd     | Number           | 5 pier           | 11 pier          | 16 pier          |  |
| bridges         | Foundation type  | Steel pipe sheet | Steel pipe sheet | Steel pipe sheet |  |
|                 |                  | pile             | pile             | pile             |  |
|                 | Foundation width | 31.3m x 8.5m     | 32.44m x         | 29.95m x         |  |
|                 | (m)              |                  | 14.97m           | 13.73m           |  |
|                 | Maximum pile     | 33m              | 48m              | 70m              |  |
|                 | length (m)       |                  |                  |                  |  |
| Characteristics | Length (m)       | 396.5            | 930.0            | 1,410.0          |  |
| of existing     | Width (m)        | 14.64            | 9.2              | 9.2              |  |
| bridges         | Navigation       | width: 61m       | width: 75m       | width: 75m       |  |
|                 | clearance m      | height: 12.2m    | height: 18m      | height: 7.5m     |  |
| Approach roads  | Length (m)       | 300m at Dhaka    | 500m at Dhaka    | 700m in Dhaka    |  |
| to bridges      |                  | side and 300m at | side and 500m at | side and 300m    |  |
|                 |                  | Chittagon side   | Chittagon side   | in Chittagon     |  |
|                 |                  |                  |                  | side             |  |
|                 | Maximum height   | 7m at Dhaka      | 10m at Dhaka     | 7m at Dhaka      |  |
|                 | of embankment    | side and 12m at  | side and 9m at   | side and 6m at   |  |
|                 | (m)              | Chittagon side   | Chittagon side   | Chittagon side   |  |

Source: Study Team

Overall plan and typical cross-section of the Project is illustrated in Figure A.4-1 to A.4-3 in Annex-4 while comparison of bridge shape of existing bridges and 2nd bridges are shown in Figures A.4-4 to A.4-6 in Annex-4.

#### 2.2 Alternative Routes and Minimizing Resettlement

Three alternative routes, namely Route A, Route B and Route C were proposed for respective three bridge sites to compare their feasibilities in the view of (1) cost, (2) technical issues and (3) environmental and social issues qualitatively. Alternative routes of each bridge are set as shown in Table 2.3.

**Table 2.3 Establishment of Alternative Routes** 

| Alternative<br>Route | Kanchpur Bridge  | Meghna Bridge  | Gumti Bridge   |  |  |
|----------------------|--|--|--|--|--|
| A                    | Next to existing bridge at downstream side to lessen relocation.                                   | Next to existing bridge at upstream side to lessen relocation.   | Next to existing bridge at downstream side to lessen relocation.                                   |  |  |
| В                    | Secure distance from exiting bridge at downstream side to avoid souring effects of exiting bridge. | Secure distance from exiting bridge at upstream side to avoid souring effects of exiting bridge.   | Secure distance from exiting bridge at downstream side to avoid souring effects of exiting bridge. |  |  |
| С                    | Next to existing bridge at upstream side opposite to Alternative A.                                | Secure distance from exiting bridge at upstream side to avoid souring effects of exiting bridge, and minimize resettlement issue on route B. | Next to existing bridge at upstream side opposite to Alternative A.                                |  |  |

Basically, Route A is set near to existing bridge either upstream or downstream whichever relocation is expected to be lesser and Route C is set opposite side of Route A (Kanchpur Bridge, Gumti Bridge) while Route B is set away from exiting bridge to avoid scouring effect of the existing bridge. Then cost, technical issues and environmental and social issues are examined and evaluated. Result of evaluation for each bridge is shown in Table 2.4 to Table 2.6.

Comparison was made based on considering following factors:

#### **Impact on Roar User**

1) Convenience road user

#### Impact on socio environment

- 2) Resettlement
- 3) Public facility

- 4) Land acquisition
- 5) Traffic safety for vessels
- 6) Economic activity (sand unloading, ferry terminal operation, factory, etc)

#### Impact on natural environment

- 7) Ecosystem
- 8) Hydrological condition
- 9) Noise/air pollution
- 10) River flow
- 11) Land scape

#### Other factors

- 12) Obstacle object
- 13) Construction condition
- 14) Project cost

As the results of comparison analysis made above, Route A of each Bridge is found to be most feasible among three (3) alternatives.

Existing Bridge Route=6 Route Route-Route-B Route that secures distance from Summary Next to existing bridge(down stream) existing bridge Next to existing bridge(up stream) (down stream) Two intersections are needed at (1) Convenient to road user No specific problem 0 No specific problem the point of connecting existing road, so it's lower safe 2 Resettlement 45 structure 60 structure 60 structure 0 0 (15 houses, 20 shops, 10 stalls) (40 houses, 20 shops) (30 houses, 30 shops) 3 Public facility ര Δ No Mosque relocation No (4) Land acquisition Impact  $0 \text{ m}^2$  $5,000 \text{ m}^2$  $2,000 \text{ m}^2$ (area, landowner) on Socio-Negligible Negligible ⑤ Traffic safety for Slightly enviro-(one foundation combined with 0 (one foundation combined with (two foundations are separated) vessels nment both bridge) both bridge) 6 Economic 20 shops, 10 stalls 30 shops activities 20 shops (sand unloading, ferry 30 Sand loading/unloading 0 30 Sand loading/unloading 60 Sand loading/unloading terminal operation, workers workers workers factory etc) Some impacts to natural fauna and Some impacts to natural fauna and Some impacts to natural fauna and 7 Ecosystem flora during construction flora during construction flora during construction Slightly Negligible Slightly (enlarge scoring if some foundation | (enlarge scoring if some foundation (scoring will be same around conditions Impact will be combined) existing bridge) will be conbined) Moderate impact since some Moderate impact since some Moderate impact since some natural 9 Noise / air houses are remained along new houses are remained along new houses are remained along new enviropollution accesses accesses accesses nment Negligible Negligible Slightly 10 River flow (one foundation combined with (one foundation combined with (two foundations are separated) both bridge) both bridge) Negligible Negligible Slightly 11 Landscape (two bridges are separated) (two bridges are close) (two bridges are close) 12 Obstacle Object No specific problem No specific problem No specific problem (steel towers, water pipe, gas pipe) Construction period is shorter Construction period is shorter Construction period is the longest comparing to Route B comparing to Route B (13) Construction condition 0 Bridge Length: 540m Bridge Length: 400m Bridge Length: 400m Earthwork: 102,000m3 Earthwork: 47,000m<sup>3</sup> Earthwork: 35,000m<sup>3</sup> Project cost Cheap Expensive Cheap Evaluation

**Table 2.4** Comparison of Alternative Routes on Kanchpur Bridge

 $Legend \ \ \bigcirc: Excellent, \ \bigcirc: Good, \ \triangle: Poor$ 

Kanchpur Bridge

Note: Number of structure within the proposed alignment were counted and rouded up based on the number of roofs identified through Google maps and site reconnaissance made

In the Census survey, number of actual affected households of Route A is 231 households, which include one household with several rentees per one structure. It is estimated 5.1 households per one structure on an average. Based on such estimation, that of Route B and Route C is both 308 households. It is therefore Route A is the most feasible due that number of actual affected households is the smallest compared with the other plans.

Table 2.5 Comparison of Alternative Routes on Meghna Bridge

| Meghna Bridge Route A             |   |  | Route B | Route C  |     |  |                  |
|-----------------------------------|---|--|---------|--|-----|--|------------------|
|                                   |   | · ·  | -       | Project Area  Route-B  |     | Route-B  | 3                |
|                                   |   | **   |         | Bridge Length=1100 m   | _   | 1.14   |                  |
|                                   |   |  |         | The deeped river bed are   | 2 9 | Route-C  |                  |
|                                   | Route   | Holcim cement  |         | t Route-C Bridge Length=980m   |     |  |                  |
|                                   |   | Existing Bridge  |         | Route-A<br>Bridge Length= 930m   |     | Route-A  |                  |
| Summary                           |   | Next to existing bridge(up stream)   |         | Secure distance of 250m upstream near old ferry route  |     | Secure distance of 250m upstream of shifted ferry route Minimize resettlement issue (Ctg. side) on Alignment B                   |                  |
| ① Co                              | nvenient to road user   | No specific problem  | 0       | No specific problem  | 0   | No specific problem  | 0                |
|                                   | ② Resettlement  | 10 structure<br>(5 houses, 5 shops)  | 0       | 250 structure<br>(90 houses, 150 shops, 10 stalls)   | Δ   | 60 structure<br>(10 houses, 50 shops)  | $\triangleright$ |
|                                   | 3 Public facility   | No   | 0       | Mosque relocation  | Δ   | No   | 0                |
| Impact<br>on                      | ④ Land acquisition (area、landowner)   | 15m from Holcim Cement<br>boundary<br>(RHD will agree with Holcim<br>Cememt)   | 0       | 0 m <sup>2</sup>   | 0   | 0 m <sup>2</sup>   | 0                |
| Socio-<br>enviro-<br>nment        | ⑤ Traffic safety for vessels  | Negligible<br>(one foundation combined with<br>both bridge)  | 0       | Slightly<br>(two foundations are separated)  | 0   | Slightly<br>(two foundations are separated)  | 0                |
|                                   | © Economic<br>activities<br>(sand unloading, ferry<br>terminal operation,<br>factory etc) | 5 shops<br>Fishery   | 0       | 150 shops<br>50 Sand loading/unloading<br>workers<br>Fishery   |     | 50 shops<br>30 Sand loading/inloading workers<br>Fishery   |                  |
|                                   | ⑦ Ecosystem   | Small Plantation Some impacts to natural fauna and flora during construction   | Δ       | Many roadside trees shall be cut   | Δ   | Many roadside trees shall be cut   | $\triangle$      |
| Impact                            | Hydrological conditions   | Slightly<br>(enlarge scoring if some foundation<br>in main channel will be combined,<br>but bank erosion will be little) | 0       | Slightly<br>(new bridge inpact is small, but<br>scoring around existing bridge will<br>be large by protection) | 0   | Worst (new bridge scoring will be large because new route is on the deepest river bed, and existing bridge is needed protection) |                  |
| on<br>natural<br>enviro-<br>nment | ③ Noise / air pollution   | Negligible impact since few<br>houses remaind along new access<br>on Chittagon side                                      | 0       | Severe impact since many houses<br>remaind along new accesses<br>A school is located near the new<br>access    | Δ   | Seevere impact since many houses<br>remaind along new accesses<br>A school is located near the new<br>access                     | $\triangleright$ |
|                                   | 10 River flow   | Negligible<br>(one foundation combined with<br>both bridge)  | 0       | Slightly<br>(two foundations are separated)  | 0   | Slightly<br>(two foundations are separated)  | 0                |
|                                   | ① Landscape   | Negligible<br>(two bridges are close)  | 0       | Slightly<br>(two bridges are separated<br>,loss of road side trees)  | 0   | Slightly<br>(two bridges are separated<br>,loss of road side trees)  | 0                |
|                                   | Obstacle Object<br>towers, water pipe, gas<br>pipe)                                       | No specific problem  | 0       | No specific problem  | 0   | No specific problem  | 0                |
|                                   | nstruction condition  | Construction period is the shortest<br>Bridge Length: 930m<br>Earthwork : 39,000m <sup>3</sup>                           | 0       | Construction period is the longest<br>Bridge Length: 1,100m<br>Earthwork : 84,000m <sup>3</sup>                | Δ   | Construction period is shorter<br>comparing to Route B<br>Bridge Length: 980m<br>Earthwork : 128,000m <sup>3</sup>               | 0                |
| (                                 | Project cost  | Cheap  | 0       | Expensive  | Δ   | Expensive  | Δ                |
|                                   | Evaluation  | ©  |         | Δ  |     | 0  |                  |

Legend  $\odot$ : Excellent,  $\bigcirc$ : Good,  $\triangle$ : Poor

Note: Number of structure within the proposed alignment were counted and rouded up based on the number of roofs identified through Google maps and site reconnaissance made

In the Census survey, number of actual affected households of Route A is 19 households, which include one household with several rentees per one structure. It is estimated 1.9 households per one structure on an average. Based on such estimation, that of Route B Plan and Route C Plan is 475 households and 114 households, respectively. It is therefore Route A is the most feasible due that number of actual affected households is the smallest compared with the other plans.

Gumti Bridge Route B Route ( Project Area Route-C Existing Route Route-A Graveyard Route-B Route that secures distance from Summary Next to existing bridge(down stream) Next to existing bridge(up stream) existing bridge(down stream) ① Convenient to road user No specific problem No specific problem No specific problem 2 Resettlement 80 structure 20 structure 20 structure 0 Δ 0 (5 houses, 15 shops) (40 houses, 40 shop s) (20 shops) 3 Public facility No 0 No 0 No 4 Land acquisition 0 0  $0 \text{ m}^2$  $0 \text{ m}^2$  $32,000 \text{m}^2$ (area, landowner) Impact on Negligible Negligible ⑤ Traffic safety for Slightly Socio-(0) (one foundation combined with 0 (one foundation combined with (two foundations are separated) vessels enviroboth bridge) both bridge) nment 6 Economic 15 shops 20 shops 40 shops activities 100 sand loading/unloading 100 sand loading/unloading 100 sand loading/unloading 0 (sand unloading, ferry workers workers workers cultivating farm on sand bars terminal operation cultivating farm on sand bars Fishery factory etc) Fishery Fishery Some impacts to natural fauna and Some impacts to natural fauna and Some impacts to natural fauna and 7 Ecosystem flora during construction flora during construction flora during construction Slightly Negligible Slightly Hydrological (enlarge scoring if some foundation | ) (enlarge scoring if some foundation (scoring will be same around 0 conditions will be conbined) existing bridge) will be conbined) Impact on Noise / air No impact since no house Moderate impact since several Negligible impact since few houses (0) natural pollution houses remained along new access remained along new access remained along new access enviro-Negligible Negligible nment Slightly 10 River flow (one foundation combined with 0 (one foundation combined with 0 (two foundations are separated) both bridge) both bridge) Negligible Slightly Negligible (1) Landscape 0 0 (two bridges are close) (two bridges are separated) (two bridges are close) 12 Obstacle Object 0 0 No specific problem No specific problem No specific problem (steel towers, water pipe, gas pipe) Construction period is shorter Construction period is shorter Construction period is the longest comparing to Route B comparing to Route B 13 Construction condition 0 Bridge Length: 1,390m 0  $\bigcirc$ Bridge Length: 1,410m Bridge Length: 1,410m Earthwork: 41,000m<sup>3</sup> Earthwork: 33,000m<sup>3</sup> Earthwork: 33,000m<sup>3</sup>

Table 2.6 Comparison of Alternative Routes on Gumti Bridge

Legend  $\odot$  : Excellent,  $\bigcirc$  : Good,  $\triangle$  : Poor

Project cost

Evaluation

Note: Number of structure within the proposed alignment were counted and rouded up based on the number of roofs identified through Google maps and site reconnaissance made

Cheap

In the Census Survey, number of actual affected households of Route A Plan is 24 households, which include one household with several rentees per one structure. It is estimated 1.2 households per one structure on an average. Based on such estimation, that of Route B Plan and Route C Plan is 96 households and 24 households, respectively. It is therefore Route A is the most feasible due that number of actual affected households is the smaller compared with the other plans.

Slightly expensive

Cheap

#### 2.3 Project Impacts

Infrastructure development projects generally displace people involuntarily from their places of work or residence or means of livelihood and thereby create situation leading to severe physical, economic, social and environmental problems. Table 2.7 shows major impacts of losses caused by the Project on the Affected Persons or Households.

Table 2.7 Major Impacts of Losses Caused by the Project

| Impacts of Losses                                   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Social impacts                                      |  |  |  |  |  |  |
| • Loss of residences and business places (Squatter) |  |  |  |  |  |  |
| · Loss of CPR (Common property resources)           |  |  |  |  |  |  |
| Loss of pond and tree owners                        |  |  |  |  |  |  |
| • Loss of tenants ( Business and residences)        |  |  |  |  |  |  |
| Loss of income for wage labor                       |  |  |  |  |  |  |
| Physical assets impacts                             |  |  |  |  |  |  |
| • Loss of housings, business shops                  |  |  |  |  |  |  |
| Loss of water pump                                  |  |  |  |  |  |  |
| • Loss of bill board                                |  |  |  |  |  |  |
| • Loss of backfill of fish pond without land title  |  |  |  |  |  |  |

To address all the above mentioned problems, the RAP will be prepared incorporating some mitigating measures to encounter the negative social and economic impacts to be mentioned as the following chapters.

However this RAP is still tentative nature so that in the detailed design stage, it shall be carried out a detailed study on the RAP, which the losses caused by the Project shall be minimized.

#### CHAPTER 3. CENSUS AND SOCIOECONOMIC STUDIES

#### 3.1 Methodology for Census and Socioeconomic Survey

The census and a socio-economic survey was carried out in March 2012 to provide requisite details on the project affected households (PAHs) to further assess the magnitude of likely impacts and to identify measures for mitigation of adverse impacts. The survey included (i) Census of the affected households (ii) Socioeconomic survey of the households living in the project surrounded areas (iii) Inventory of losses (IOL (iv) Replacement cost surveys (v) Video filming of the affected properties (vi) sketch mapping (not to scale) of the affected structure and other assets (vii) community based public consultation, and (viii) focused group discussion with the affected population, etc. The survey identified the households, commercial and business enterprises, tenants (both residential and commercial) and community properties on project right of way.

The socioeconomic survey collected a wide range of data, for example, demography, age/sex distribution, education, occupation, income/poverty data, types of businesses, types and ownership status of affected structures and other assets.

A total of 499 households were surveyed in the project surrounded areas of the three bridges along possible alternative routes with a structured socioeconomic survey questionnaire. The socioeconomic survey covers all categories of people irrespective of occupation, income, age or sex living in the project surrounded area. Data of the socioeconomic survey includes information of households not directly affected by the Project, but information regarding presence of vulnerable people and data needed for formulation of necessary relocation assistance schemes are fairly collected and Resettlement Action Plan that reflects all relocation requirements can be prepared..

The Table 3.1 below presents the bridge wise number of affected households based on the census survey. Out of total affected households 8.2% is female headed and 91.8% is male headed.

Table 3.1 Bridge wise Number of Surveyed Households

| Type of             | Kancl | hpur  | Me  | eghna | Gu  | mti   | Total |       |  |
|---------------------|-------|-------|-----|-------|-----|-------|-------|-------|--|
| Household head      | No.   | %     | No. | %     | No. | %     | No.   | %     |  |
| Male Headed<br>HH   | 235*  | 91.1  | 20  | 100.0 | 24* | 92.3  | 279   | 91.8  |  |
| Female Headed<br>HH | 23    | 8.9   | 0   | 0.0   | 2   | 7.7   | 25    | 8.2   |  |
| Total Number        | 258*  | 100.0 | 20  | 100.0 | 26* | 100.0 | 304** | 100.0 |  |

Note: \* One owner of common property is not included

<sup>\*\*</sup> Total two owners of common property are not included

#### 3.2 Results of the Census Survey

A total of 274 households or 972 peoples will be relocated due to the project interventions as shown in Table 3.2. Besides, two community properties will also be relocated from the project area. A total of 231 households and shop tenants will be displaced in Kanchpur Bridge, 19 in Meghna Bridge and 24 in Gumti Bridge. In addition to 274 households to be displaced, a total of 28 wage laborers will also lose their sources of livelihood due to the project of which 26 at Kanchpur Bridge and 2 at Gumti Bridge. These peoples and properties are located in RHD owned land and have not official land ownership. Bridge wise impacts are shown in the Table 3.2 below.

**Table 3.2 Number of Affected Households** 

|       | Type of loss                 |     | No of PA | Hs    |       | No of people |        |       |       |  |
|-------|------------------------------|-----|----------|-------|-------|--------------|--------|-------|-------|--|
|       | Type of loss                 |     | Meghna   | Gumti | Total | Kanchpur     | Meghna | Gumti | Total |  |
| Requ  | nired for Displacement       |     |          |       |       |              |        |       |       |  |
| 1     | Residential house owners     | 100 | 1        | 6     | 107   | 412          | 3      | 19    | 434   |  |
| 2     | Residential rentee           | 98  | 0        | 0     | 98    | 313          | 0      | 0     | 313   |  |
| 3     | Shop owners                  | 26  | 17       | 18    | 61    | 98           | 40     | 61    | 199   |  |
| 4     | Shop tenants                 | 4   | 1        | 0     | 5     | 12           | 4      | 0     | 16    |  |
| 5     | Residential and shop owner   | 3   | 0        | 0     | 3     | 10           | 0      | 0     | 10    |  |
|       | Sub Total (1-5)              | 231 | 19       | 24    | 274   | 845          | 47     | 80    | 972   |  |
| Not r | required for Displacement    |     |          |       |       |              |        |       |       |  |
| 6     | Land owners                  | 0   | 0        | 0     | 0     | 0            | 0      | 0     | 0     |  |
| 7     | Land lease right holder      | 0   | 0        | 0     | 0     | 0            | 0      | 0     | 0     |  |
| 8     | Structure (absentee house or | 0   | 0        | 0     | 0     | 0            | 0      | 0     | 0     |  |
| 0     | shop) owners not residing in |     |          |       |       |              |        |       |       |  |
| 9     | Seasonal cropper on char     | 0   | 0        | 0     | 0     | 0            | 0      | 0     | 0     |  |
| 10    | Pond/fish cultivator         | 1   | 0        | 0     | 1     | 5            | 0      | 0     | 5     |  |
| 11    | Tree owners (including       |     |          |       |       |              |        |       |       |  |
| 11    | plantation owners)           | 0   | 1        | 0     | 1     | 0            | 6      | 0     | 6     |  |
| 12    | Wage earners (Employees)     | 26  | 0        | 2     | 28    | 26           | 0      | 2     | 28    |  |
|       | Community owned structures   |     |          |       |       |              |        |       |       |  |
| 13    | including physical cultural  |     |          |       |       |              |        |       |       |  |
|       | resources                    | 1   | 1        | 0     | 2     | 1            | 1      | 0     | 2     |  |
|       | Sub Total (6-13)             | 28  | 2        | 2     | 32    | 32           | 7      | 2     | 41    |  |
| Gran  | nd Total (1-13)              | 259 | 21       | 26    | 306   | 877          | 54     | 82    | 1,013 |  |

Source: Study Team, 2012

**Table 3.3** Number of Vulnerable Households

|                            | Kachpur | Meghna | Gumti | Total |
|----------------------------|---------|--------|-------|-------|
| Vulnerable family          |         |        |       |       |
| Annual income<60,000 and   | 11      | 0      | 1     | 12    |
| Female headed household    |         |        |       |       |
| Annual income<60,000       | 2       | 1      | 3     | 6     |
| Female headed household    | 12      | 0      | 1     | 13    |
| Total vulnerable household | 25      | 1      | 5     | 31    |

# 3.3 Inventory of Assets

## 3.3.1 Lands

Figure 3.1 shows location of fish pond that may be affected by the Project at Kanchpur Bridge while Figure 3.2 shows location of plantation area in Meghna Bridge. Land for fishpond and plantation belongs to RHD and there is no land acquisition is required while compensation for fish and tree will be made.



Note: 1dec.  $\Rightarrow$  40m<sup>2</sup>

Figure 3.1 Location of Fish Pond Affected at Kanchpur Bridge

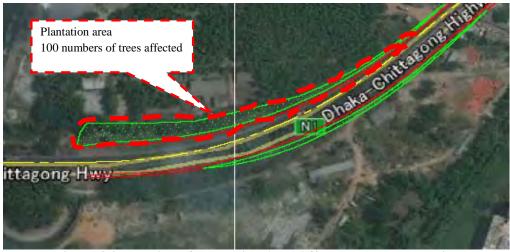


Figure 3.2 Location of Plantation Area Affected at Meghna Bridge

Table 3.4 Area to be Used in Three Sites

Unit: m<sup>2</sup>

|                |                           | Kanchpur | Meghna | Gumti  | Total   |
|----------------|---------------------------|----------|--------|--------|---------|
| Land to be     | Road and                  | 21,600   | 30,000 | 27,000 | 78,600  |
| used (all land | embankment m <sup>2</sup> |          |        |        |         |
| is inside      | Construction              | 3,000    | 25,000 | 22,000 | 50,000  |
| RHD land)      | yard m <sup>2</sup>       |          |        |        |         |
|                | Temporary road            | 10,000   | 10,000 | 4,000  | 24,000  |
|                | $m^2$                     |          |        |        |         |
|                | Total area m <sup>2</sup> | 34,600   | 65,000 | 53,000 | 152,600 |

For the construction of Meghna Bridge, a land (400m x 10m), concrete fence (450m) and a part of store houses presently owned by Holcim Cement Industry are required and included in Table 3.4 and Table 3.5. Land occupied by Holcim Cement Industry is also owned by RHD.

A total of 2,552 square feet (237.3 square meter) semi pucca, 26,335 sft (2,449.2 square meter) tin made, Katcha 803 sft and Thatched 905 sft (84.2 square meter) have been affected by the Project interventions.

#### 3.3.2 Structures

Table 3.5 Number of Structures to be Affected

|                                |                  |           | Kachpur          |                    | Meghna    | Meghna Gumti |                  |                    |        |
|--------------------------------|------------------|-----------|------------------|--------------------|-----------|--------------|------------------|--------------------|--------|
|                                | Unit             | Constr    | ucted by         | RHD                |           | Constr       | ucted by         | RHD                | Total  |
|                                |                  | Squatters | RHD<br>Employees | owned<br>Structure | Squatters | Squatters    | RHD<br>Employees | owned<br>Structure |        |
| Primary<br>Structures          |                  |           |                  |                    |           |              |                  |                    |        |
| Pucca <sup>1</sup>             | Sqf              | 0         | 0                | 0                  | 0         | 0            | 0                | 575                | 575    |
| Semi-Pucca <sup>2</sup>        | Sqf              | 1,359     | 5,730            | 25,582             | 988       | 205          | 0                | 432                | 34,296 |
| Tin Made <sup>3</sup>          | Sqf              | 19,815    | 1,298            | 4,422              | 4,732     | 1,788        | 115              | 0                  | 32,170 |
| Katcha <sup>4</sup>            | Sqf              | 487       | 1,136            | 0                  | 0         | 316          | 160              | 0                  | 2,099  |
| Thatched <sup>5</sup>          | Sqf              | 710       | 0                | 0                  | 146       | 49           | 0                | 0                  | 905    |
| Sub-total                      |                  | 22,371    | 8,164            | 30,004             | 5,866     | 2,358        | 275              | 1,007              | 70,045 |
| Secondary<br>Structures        |                  |           |                  |                    |           |              |                  |                    |        |
| Pucca Latine                   | No.              | 4         | 0                | 8                  | 0         | 0            | 0                | 0                  | 12     |
| Slab Latrine                   | No.              | 24        | 4                | 6                  | 0         | 0            | 1                | 0                  | 35     |
| Tube well                      | No.              | 8         | 0                | 0                  | 0         | 1            | 2                | 0                  | 11     |
| Boundary<br>Wall (Brick<br>5") | Rft              | 71        | 41               | 0                  | 1,500     | 0            | 0                | 0                  | 1,612  |
| Boundary<br>Wall (Tin<br>made) |                  |           | 0                | 1520               |           | 0            |                  | 0                  | 1,520  |
| Water Pump                     | No.              | 1         | 0                | 2                  | 0         | 0            | 0                | 0                  | 3      |
| Bill Board                     | No.              | 2         | 0                | 0                  | 0         | 0            | 0                | 0                  | 2      |
| Fish pond to be Backfilled     | Dec <sup>6</sup> | 120       | 0                | 0                  | 0         | 0            | 0                | 0                  | 120    |

<sup>&</sup>lt;sup>1</sup> Pucca: Brick built houses.

<sup>&</sup>lt;sup>2</sup> Semi Pucca: Brick wall with corrugated iron (CI) sheet roof.

<sup>&</sup>lt;sup>3</sup> Tin Made: Fence and roof is made of corrugated iron sheet.

<sup>&</sup>lt;sup>4</sup> Katcha: roof is made of CI sheet and fence is with bamboo, wood, earth, etc.

 $<sup>^{\</sup>rm 5}$  Thatched: roof and fence both are made of straw/bamboo etc.

<sup>&</sup>lt;sup>6</sup> Dec (≒40m<sup>2</sup>)

## **3.3.3 Trees**

Some Roby crops (mainly wheat and paddy) are produced during winter season under the Gumti Bridge. Some trees are found at Meghna Bridge location (Chittagong side planted by local people by taking lease of the land from RHD. These trees will need to be fallen down for bridge approach road and construction yard. Road side trees and shrubs which have planted by RHD employees around Kanchpur Bridge will also be affected.

**Table 3.6** Number of Trees to be Affected

| Table 5.0 Number of Trees to be Affected |                  |     |        |       |       |       |  |  |  |  |
|--|------------------|-----|--------|-------|-------|-------|--|--|--|--|
| Name of the Bridge                       | Name of the Tree | Big | Medium | Small | Plant | Total |  |  |  |  |
|  | Palm             | 0   | 3      | 0     | 0     | 3     |  |  |  |  |
|  | Mango            | 0   | 66     | 27    | 60    | 153   |  |  |  |  |
|  | Kadom            | 0   | 0      | 1     | 0     | 1     |  |  |  |  |
|  | Coconat          | 0   | 0      | 0     | 1     | 1     |  |  |  |  |
|  | Betel nut        | 0   | 1      | 0     | 0     | 1     |  |  |  |  |
|  | Rain tree        | 0   | 2      | 0     | 0     | 2     |  |  |  |  |
|  | Jackfruit        | 4   | 7      | 19    | 19    | 49    |  |  |  |  |
|  | Nim              | 1   | 2      | 3     | 0     | 6     |  |  |  |  |
|  | Black Berry      | 0   | 3      | 0     | 0     | 3     |  |  |  |  |
|  | Sajna            | 0   | 1      | 0     | 0     | 1     |  |  |  |  |
| Kanchpur                                 | Mehogini         | 3   | 6      | 3     | 0     | 12    |  |  |  |  |
|  | Mehedi           | 0   | 0      | 7     | 0     | 7     |  |  |  |  |
|  | Guava            | 0   | 32     | 11    | 0     | 43    |  |  |  |  |
|  | Jambura          | 0   | 5      | 5     | 0     | 10    |  |  |  |  |
|  | Papaya           | 0   | 9      | 20    | 0     | 29    |  |  |  |  |
|  | Lemon            | 0   | 9      | 0     | 0     | 9     |  |  |  |  |
|  | Ata              | 0   | 3      | 2     | 0     | 5     |  |  |  |  |
|  | Dalim            | 0   | 0      | 1     | 0     | 1     |  |  |  |  |
|  | Doya             | 1   | 4      | 2     | 0     | 7     |  |  |  |  |
|  | Banana           | 40  | 20     | 15    | 0     | 75    |  |  |  |  |
|  | Koroi            | 0   | 1      | 1     | 0     | 2     |  |  |  |  |
|  | Subtotal         | 49  | 174    | 117   | 80    | 420   |  |  |  |  |
| Meghna                                   | Rentree          | 0   | 0      | 50    | 0     | 50    |  |  |  |  |
|  | Boroi            | 0   | 0      | 20    | 0     | 20    |  |  |  |  |
|  | Akashmoni        | 80  | 600    | 1,000 | 100   | 1,780 |  |  |  |  |
|  | Subtotal         | 80  | 600    | 1,070 | 100   | 1,850 |  |  |  |  |
|  |                  | 0   | 0      | 0     | 0     | 0     |  |  |  |  |
| Gumti                                    | Subtotal         | 0   | 0      | 0     | 0     | 0     |  |  |  |  |
| Grand total No                           |                  | 129 | 774    | 1,187 | 180   | 2,270 |  |  |  |  |

 $Remark: Big\ (diameter: 2ft),\ Nedium (1ft),\ Small (<1ft)\ and\ plant (nursing)$ 

#### 3.3.4 Business and Commercial Activities

A total of 66 business institutions were affected in this project (61 squatters and 5 tenants) of which mostly dealing in tin made structures. Business and commercial activities of these affected institutions are operating retailing shops and their business activities will be affected by the project. At Meghna Bridge 18 business enterprises have been enumerated whereas at Gumti Bridge it is 18 and at Kanchpur Bridge it is 33.

#### 3.4 Results of Socioeconomic Survey

The Socioeconomic survey covers 338 households (67.74%) Meghna Bridge, 142 households (28.46%) in Kanchpur Bridge and 19 households (3.81%) in Gumti Bridge area.

### 3.4.1 Distribution of Population by Sex

A total of 2,241 people are found in 499 surveyed households (average household size is 4.49), of which 52.07% are males and 47.93% are females. The Table 3.7 below presents the total number households and people surveyed in three bridges.

Table 3.7 Bridge Area Wise Distribution of Households and Population by Sex

| Name of the Bridge | НН  |       | Male |       | Female |       | Total population |       |
|--------------------|-----|-------|------|-------|--------|-------|------------------|-------|
|                    | No. | %     | No.  | %     | No.    | %     | No.              | %     |
| Kanchpur           | 142 | 28.46 | 282  | 12.58 | 286    | 12.76 | 568              | 25.35 |
| Meghna             | 338 | 67.74 | 836  | 37.30 | 746    | 33.29 | 1582             | 70.59 |
| Gumti              | 19  | 3.81  | 49   | 2.19  | 42     | 1.87  | 91               | 4.06  |
| Total              | 499 | 100   | 1167 | 52.07 | 1074   | 47.93 | 2241             | 100   |

Source: Socioeconomic survey conducted by Study Team, 2012

### 3.4.2 Duration of Living in the Project Areas

In the Kanchpur Bridge area, 32% of the surveyed households have been staying for 11 to 20 years, 30% households have been staying for less than 10 years and 20% households have been staying for 21 to 30 years. It is found that 13% of households have been staying in the project area for above 40 years. Details on duration of living of the surveyed people in the project areas are shown in Table 3.8.

Table 3.8 Duration of Living in Project Area

| Range       | Kanchpur |       | Meghna |       | Gu  | mti   | To  | otal   |
|-------------|----------|-------|--------|-------|-----|-------|-----|--------|
| of year     | No.      | %     | No.    | %     | No. | %     | No. | %      |
| Up to 10    | 42       | 29.58 | 83     | 24.56 | 11  | 57.89 | 136 | 27.25  |
| 11 to 20    | 45       | 31.69 | 116    | 34.32 | 3   | 15.79 | 164 | 32.87  |
| 21 to 30    | 28       | 19.72 | 88     | 26.04 | 4   | 21.05 | 120 | 24.05  |
| 31 to 40    | 9        | 6.34  | 16     | 4.73  | 0   | 0.00  | 25  | 5.01   |
| Above<br>40 | 18       | 12.68 | 35     | 10.36 | 1   | 5.26  | 54  | 10.82  |
| Total       | 142      | 100   | 338    | 100   | 19  | 100   | 499 | 100.00 |

# 3.4.3 Religion of Affected Households and Population

Distribution of surveyed population by religion under the Project area is presented in Table 3.9. It is found that about 96.70% (2167) surveyed population belong to Islam religion and remaining 3.30% (74 people) belong to Hindu (Sanatan) religion by faith. In the Kanchpur Bridge project area 100% of the surveyed population found Muslim, while in the Meghna Bridge area 96.27% and 3.73% of the surveyed population found Muslim and Hindu respectively. According to the survey a large number (16.48%) of Hindu population were found in Gumti Bridge area.

Table 3.9 Surveyed Population by Religion

| Religion | Kanchpur   |     | Meghna     |       | Gumti      |       | Total      |       |
|----------|------------|-----|------------|-------|------------|-------|------------|-------|
|          | Population | %   | Population | %     | Population | %     | Population | %     |
| Islam    | 568        | 100 | 1523       | 96.27 | 76         | 83.52 | 2167       | 96.70 |
| Hindu    | 0          | 0   | 59         | 3.73  | 15         | 16.48 | 74         | 3.30  |
| Total    | 568        | 100 | 1582       | 100   | 91         | 100   | 2241       | 100   |

Source: Study Team, 2012

# 3.4.4 Age, Education and Occupation

### Population by age and sex

The male and female population is almost equal in numbers within the age group 21-30years; male population is slightly higher in numbers than that of female population within the age groups 1-10 years, 31-40 years, and above 60 years. Male population is significantly higher in numbers than that of female population within the age groups 11-20 years and 51-60 years. It should be mentioned here that female population is higher in number than that of male population within the age groups 41-50 years. Details on distribution of the surveyed population by age and sex are shown in Table 3.10.

Table 3.10 Distribution of Surveyed Population by Age and Sex under the Entire Project Area

| Age Group | Male   |       | Female |       | Total  |       |
|-----------|--------|-------|--------|-------|--------|-------|
|           | Number | %     | Number | %     | Number | %     |
| 1 to 10   | 275    | 12.27 | 259    | 11.56 | 534    | 23.83 |
| 11 to 20  | 244    | 10.89 | 212    | 9.46  | 456    | 20.35 |
| 21 to 30  | 207    | 9.24  | 205    | 9.15  | 412    | 18.38 |
| 31 to 40  | 153    | 6.83  | 138    | 6.16  | 291    | 12.99 |
| 41 to 50  | 124    | 5.53  | 147    | 6.56  | 271    | 12.09 |
| 51 to 60  | 104    | 4.64  | 57     | 2.54  | 161    | 7.18  |
| Above 60  | 60     | 2.68  | 56     | 2.50  | 116    | 5.18  |
| Total     | 1167   | 52.07 | 1074   | 47.93 | 2241   | 100   |

### Education level

About 19% of the total surveyed population is found illiterate. However, some of the illiterate population can sign their names only. Out of 19% illiterate people, the males are 9.06% while the females are 9.77%. It is found that 31.59% of the people have gone to primary schools while 27.76% have education between class six and class ten. Only 5.35% and 3.17% of the people have completed SSC and HSC level education respectively. Only 1.16% of the people have obtained Bachelor degree while 0.22% of the people have obtained Master degree. However, 0.22% of the people found Hafez-E-Quran. Details about the status of education of the male and female people are shown in Table 3.11.

Table 3.11 Distribution of Population by Education Level under the Entire Project Area

| Education     | M      | ale   | Fema   | ale   | Tot    | al    |
|---------------|--------|-------|--------|-------|--------|-------|
| level         | Number | %     | Number | %     | Number | %     |
| Grade 1 to 5  | 354    | 15.80 | 354    | 15.80 | 708    | 31.59 |
| Grade 6 to 10 | 317    | 14.15 | 305    | 13.61 | 622    | 27.76 |
| SSC           | 74     | 3.30  | 46     | 2.05  | 120    | 5.35  |
| HSC           | 47     | 2.10  | 24     | 1.07  | 71     | 3.17  |
| BA            | 19     | 0.85  | 7      | 0.31  | 26     | 1.16  |
| MA            | 4      | 0.18  | 1      | 0.04  | 5      | 0.22  |
| Hafez         | 5      | 0.22  | 0      | 0.00  | 5      | 0.22  |
| Below Grade 1 | 144    | 6.43  | 118    | 5.27  | 262    | 11.69 |
| No Schooling  | 203    | 9.06  | 219    | 9.77  | 422    | 18.83 |
| Total         | 1167   | 52.07 | 1074   | 47.93 | 2241   | 100   |

Source: Study Team, 2012

Remark: SSC: Secondary School Certificate HSC: Higher Secondary Certificate

BA: Bachelor Degree
MA: Master Course

Hafez: Hefez-E-QurAn Course (Muslim School)

The status of education of the surveyed people in Kanchpur, Meghna and Gumti Bridge areas is presented in the following tables (Table 3.12, 3.13 and 3.14). About 18% of the people in Kanchpur Bridge found illiterate. The people who can only sign their names are also considered as illiterate people. Out of 18.13% illiterate people, the illiterate males are 8.27% while the illiterate females are 9.86%. About 34% of the population under the Kanchpur Bridge area has gone to primary schools for their education. It is found that about 28% of the people have education between class six and class ten. Only 3.70% and 2.29% of the people have completed SSC and HSC levels of education respectively. Details about the status of education of the male and female population are shown in Table 3.12.

Table 3.12 Distribution of Population by Education Level in Kanchpur Bridge

| Education        | Mal    | e     | Female | e     | Total  |       |
|------------------|--------|-------|--------|-------|--------|-------|
| level            | Number | %     | Number | %     | Number | %     |
| Grade 1 to 5     | 88     | 15.49 | 103    | 18.13 | 191    | 33.63 |
| Grade 6 to 10    | 79     | 13.91 | 78     | 13.73 | 157    | 27.64 |
| SSC              | 11     | 1.94  | 10     | 1.76  | 21     | 3.70  |
| HSC              | 9      | 1.58  | 4      | 0.70  | 13     | 2.29  |
| BA               | 6      | 1.06  | 3      | 0.53  | 9      | 1.58  |
| MA               | 2      | 0.35  | 0      | 0     | 2      | 0.35  |
| Hafez            | 1      | 0.18  | 0      | 0     | 1      | 0.18  |
| Below<br>Grade-1 | 39     | 6.87  | 32     | 5.63  | 71     | 12.50 |
| No<br>Schooling  | 47     | 8.27  | 56     | 9.86  | 103    | 18.13 |
| Total            | 282    | 49.65 | 286    | 50.35 | 568    | 100   |

Source: Study Team, 2012

The status of education of the people under the Meghna Bridge area is shown in Table 3.13. It is found that 18.46% of the people (male 8.91%, female 9.54%) in Meghna Bridge are illiterate. About 31% of the people have gone to primary schools and 28.13% of the people have education between class six and class ten. Only 6.26% and 3.67% of the people have completed SSC and HSC courses respectively. Only 1.07% and 0.19% of the people have obtained Bachelor and Master degrees respectively. However, 0.19% of the people are Hafez-E-QurAn.

Table 3.13 Distribution of Population by Education Level in Meghna Bridge

| Iabic .          | Table 3.13 Distribution of Topulation by Education Level in Meginia Bridge |       |        |       |        |       |  |  |  |  |  |
|------------------|--|-------|--------|-------|--------|-------|--|--|--|--|--|
| Education        | Male   | e     | Femal  | e     | Tota   | 1     |  |  |  |  |  |
| level            | Number   | %     | Number | %     | Number | %     |  |  |  |  |  |
| Grade 1 to 5     | 250  | 15.80 | 235    | 14.85 | 485    | 30.66 |  |  |  |  |  |
| Grade 6 to 10    | 224  | 14.16 | 221    | 13.97 | 445    | 28.13 |  |  |  |  |  |
| SSC              | 63   | 3.98  | 36     | 2.28  | 99     | 6.26  |  |  |  |  |  |
| HSC              | 38   | 2.40  | 20     | 1.26  | 58     | 3.67  |  |  |  |  |  |
| BA               | 13   | 0.82  | 4      | 0.25  | 17     | 1.07  |  |  |  |  |  |
| MA               | 2  | 0.13  | 1      | 0.06  | 3      | 0.19  |  |  |  |  |  |
| Hafez            | 3  | 0.19  | 0      | 0.00  | 3      | 0.19  |  |  |  |  |  |
| Below<br>Grade-1 | 102  | 6.45  | 78     | 4.93  | 180    | 11.38 |  |  |  |  |  |
| No<br>Schooling  | 141  | 8.91  | 151    | 9.54  | 292    | 18.46 |  |  |  |  |  |
| Total            | 836  | 52.84 | 746    | 47.16 | 1582   | 100   |  |  |  |  |  |

Source: Study Team, 2012

The status of education of the people under the Gumti area is presented in Table 3.14. It is found that 29.67% of the people (male 16.48%, female 13.19%) are illiterate. About 35% of the people have gone to primary schools and 21.98% found within the range of education from class six to class ten. Only 1.10% of the people have completed Hafez-E-QurAn course.

Table 3.14 Distribution of Population by Education Level in Gumti Bridge

| Education        | Male   | e     | Female | е     | Total  |       |
|------------------|--------|-------|--------|-------|--------|-------|
| level            | Number | %     | Number | %     | Number | %     |
| 1 to 5           | 16     | 17.58 | 16     | 17.58 | 32     | 35.16 |
| 6 to 10          | 14     | 15.38 | 6      | 6.59  | 20     | 21.98 |
| SSC              | 0      | 0     | 0      | 0     | 0      | 0     |
| HSC              | 0      | 0     | 0      | 0     | 0      | 0     |
| BA               | 0      | 0     | 0      | 0     | 0      | 0     |
| MA               | 0      | 0     | 0      | 0     | 0      | 0     |
| Hafez            | 1      | 1.10  | 0      | 0     | 1      | 1.10  |
| Below<br>Grade-1 | 3      | 3.30  | 8      | 8.79  | 11     | 12.09 |
| No<br>Schooling  | 15     | 16.48 | 12     | 13.19 | 27     | 29.67 |
| Total            | 49     | 53.85 | 42     | 46.15 | 91     | 100   |

Source: Study Team, 2012

From the above findings on the status of education/literacy of the people, it is found that illiteracy rate of the female is higher than that of male in Kanchpur and Meghna Bridge area. On the contrary, illiteracy rate among male people is found higher in Gumti Bridge area.

## Character of the population

An overwhelming number of population under the entire project area is housewives (24.01%) followed by business person (14.86%), daily wage laboring occupation (5.62%), service/employment (5.04%), overseas employment (1.25%), pulling rickshaw and van (1.16%), others (1.07%) and drivers (0.98%). It is found that 24.94%, 11.65%, 4.69% and 3.61% of the population are students, children, unemployed and old people respectively. Details about Character of the male and female population are shown in Table 3.15.

Table 3.15 Distribution of the People by Characters under the Entire Project Area

| Present Character of the Population  | M    | ale   | Fen  | nale  | То   | tal   |
|--------------------------------------|------|-------|------|-------|------|-------|
|                                      | No.  | %     | No.  | %     | No.  | %     |
| Student                              | 284  | 12.67 | 275  | 12.27 | 559  | 24.94 |
| Housewife                            | 0    | 0.00  | 538  | 24.01 | 538  | 24.01 |
| Small Retailing Shop Business Person | 330  | 14.73 | 3    | 0.13  | 333  | 14.86 |
| Child                                | 143  | 6.38  | 118  | 5.27  | 261  | 11.65 |
| Day labor                            | 114  | 5.09  | 12   | 0.54  | 126  | 5.62  |
| Service                              | 81   | 3.61  | 32   | 1.43  | 113  | 5.04  |
| Unemployed                           | 73   | 3.26  | 32   | 1.43  | 105  | 4.69  |
| Old people                           | 37   | 1.65  | 44   | 1.96  | 81   | 3.61  |
| Overseas Service                     | 26   | 1.16  | 2    | 0.09  | 28   | 1.25  |
| Rickshaw/Van Polar                   | 25   | 1.12  | 1    | 0.04  | 26   | 1.16  |
| Others                               | 17   | 0.76  | 7    | 0.31  | 24   | 1.07  |
| Driver                               | 21   | 0.94  | 1    | 0.04  | 22   | 0.98  |
| Disabled                             | 5    | 0.22  | 2    | 0.09  | 7    | 0.31  |
| Agriculture                          | 5    | 0.22  | 1    | 0.04  | 6    | 0.27  |
| Tailor                               | 1    | 0.04  | 5    | 0.22  | 6    | 0.27  |
| Doctor                               | 2    | 0.09  | 1    | 0.04  | 3    | 0.13  |
| Fisherman                            | 2    | 0.09  | 0    | 0     | 2    | 0.09  |
| Mason                                | 1    | 0.04  | 0    | 0     | 1    | 0.04  |
| Total                                | 1167 | 52.07 | 1074 | 47.93 | 2241 | 100   |

Source: Study Team, 2012

Characters of the population in Kanchpur, Meghna and Gumti Bridge are separately shown in

Tables 3.16, 3.17 and 3.18. It is found that an overwhelming number of the population in Kanchpur Bridge area is housewives (22.89%) followed by business person (12.32%), service/employment (10.92%), daily wage laborers (2.82%), pulling van and rickshaws (2.11%), others (1.76%), drivers (1.06%), overseas service (0.53%), agriculture (0.35%) and doctor (0.35%). It is found that 25.00%, 12.50%, 3.70% and 3.52% of the population are students, children, unemployed and old people respectively. Details on Characters of the male and female population are shown in Table 3.16, Table 3.17 and Table 3.18.

Table 3.16 Distribution of the People by Characters in Kanchpur Bridge Area

|                                      |     |       |     | _     | _   |       |
|--------------------------------------|-----|-------|-----|-------|-----|-------|
| Present Character of the Population  | M   | ale   | Fer | nale  | To  | tal   |
| _                                    | No. | %     | No. | %     | No. | %     |
| Student                              | 62  | 10.92 | 80  | 14.08 | 142 | 25.00 |
| Housewife                            | 0   | 0     | 130 | 22.89 | 130 | 22.89 |
| Child                                | 39  | 6.87  | 32  | 5.63  | 71  | 12.50 |
| Small Retailing Shop Business person | 67  | 11.80 | 3   | 0.53  | 70  | 12.32 |
|                                      |     |       |     |       |     |       |
| Service                              | 47  | 8.27  | 15  | 2.64  | 62  | 10.92 |
| Unemployed                           | 19  | 3.35  | 2   | 0.35  | 21  | 3.70  |
| Old people                           | 8   | 1.41  | 12  | 2.11  | 20  | 3.52  |
| Day labor                            | 13  | 2.29  | 3   | 0.53  | 16  | 2.82  |
| Rickshaw/Van Polar                   | 11  | 1.94  | 1   | 0.18  | 12  | 2.11  |
| Others                               | 6   | 1.06  | 4   | 0.70  | 10  | 1.76  |
| Driver                               | 5   | 0.88  | 1   | 0.18  | 6   | 1.06  |
| Overseas service                     | 3   | 0.53  | 0   | 0.00  | 3   | 0.53  |
| Doctor                               | 1   | 0.18  | 1   | 0.18  | 2   | 0.35  |
| Agriculture                          | 1   | 0.18  | 1   | 0.18  | 2   | 0.35  |
| Tailor                               | 0   | 0     | 1   | 0.18  | 1   | 0.18  |
| Total                                | 282 | 49.65 | 286 | 50.35 | 568 | 100   |

Source: Study Team, 2012

Characters of the male and female population in the Meghna Bridge area are shown in Table 3.17. Among the total population 24.53% found housewives, followed by business person (15.49%), daily wage laborers (6.45%), service/employment (3.16%), overseas service (1.52%), drivers (0.95%), pulling rickshaw and van (0.88%) and others (0.88%).

Table 3.17 Distribution of the People by Characters in Meghna Bridge Area

| Present Character of the Population  | M   | ale   | Fen | nale  | То   | tal   |
|--------------------------------------|-----|-------|-----|-------|------|-------|
|                                      | No. | %     | No. | %     | No.  | %     |
| Student                              | 209 | 13.21 | 186 | 11.76 | 395  | 24.97 |
| Housewife                            | 0   | 0.00  | 388 | 24.53 | 388  | 24.53 |
| Small Retailing Shop Business person | 245 | 15.49 | 0   | 0.00  | 245  | 15.49 |
| Child                                | 101 | 6.38  | 78  | 4.93  | 179  | 11.31 |
| Day labor                            | 94  | 5.94  | 8   | 0.51  | 102  | 6.45  |
| Unemployed                           | 52  | 3.29  | 30  | 1.90  | 82   | 5.18  |
| Old people                           | 25  | 1.58  | 29  | 1.83  | 54   | 3.41  |
| Service                              | 33  | 2.09  | 17  | 1.07  | 50   | 3.16  |
| Overseas service                     | 23  | 1.45  | 1   | 0.06  | 24   | 1.52  |
| Driver                               | 15  | 0.95  | 0   | 0.00  | 15   | 0.95  |
| Rickshaw/Van Polar                   | 14  | 0.88  | 0   | 0.00  | 14   | 0.88  |
| Others                               | 11  | 0.70  | 3   | 0.19  | 14   | 0.88  |
| Disabled                             | 5   | 0.32  | 2   | 0.13  | 7    | 0.44  |
| Tailor                               | 1   | 0.06  | 4   | 0.25  | 5    | 0.32  |
| Agriculture                          | 4   | 0.25  | 0   | 0.00  | 4    | 0.25  |
| Fisherman                            | 2   | 0.13  | 0   | 0.00  | 2    | 0.13  |
| Doctor                               | 1   | 0.06  | 0   | 0.00  | 1    | 0.06  |
| Mason                                | 1   | 0.06  | 0   | 0.00  | 1    | 0.06  |
| Total                                | 836 | 52.84 | 746 | 47.16 | 1582 | 100   |

Characters of the population in the Gumti Bridge area are shown in Table 3.18. Among the total population housewives are always large in number (21.98%). This is due to the female of Bangladesh is mostly engaged in households chores. Other occupational groups are mainly male except a few female engaged in tailoring, service, day laboring, etc.

Table 3.18 Distribution of the People by Characters in Gumti Bridge Area

| Present Character of the Population  | M   | ale   | Fen | nale  | To  | tal   |
|--------------------------------------|-----|-------|-----|-------|-----|-------|
|                                      | No. | %     | No. | %     | No. | %     |
| Student                              | 13  | 14.29 | 9   | 9.89  | 22  | 24.18 |
| Housewife                            | 0   | 0.00  | 20  | 21.98 | 20  | 21.98 |
| Small Retailing Shop Business person | 18  | 19.78 | 0   | 0.00  | 18  | 19.78 |
| Child                                | 3   | 3.30  | 8   | 8.79  | 11  | 12.09 |
| Day labor                            | 7   | 7.69  | 1   | 1.10  | 8   | 8.79  |
| Old people                           | 4   | 4.40  | 3   | 3.30  | 7   | 7.69  |
| Unemployed                           | 2   | 2.20  | 0   | 0     | 2   | 2.20  |
| Driver                               | 1   | 1.10  | 0   | 0     | 1   | 1.10  |
| Service                              | 1   | 1.10  | 0   | 0     | 1   | 1.10  |
| Overseas service                     | 0   | 0.00  | 1   | 1.10  | 1   | 1.10  |
| Total                                | 49  | 53.85 | 42  | 46.15 | 91  | 100   |

## Occupation of the household heads

It is found from the survey that main occupations of the household heads in the Kanchpur Bridge, Meghna Bridge and Gumti Bridge are small retailing shop business, service, day labor, housewives, pulling van and rickshaws, driving, agriculture, overseas service, fishermen, doctors and others are main occupations of the surveyed household heads in order of numbers and percentages. It is found that 1.13% males and 1.72% females were old people and 0.45% males are disabled. Detail statistical information on occupations of the household heads is shown in Table 3.19.

Table 3.19 Distribution of the Household Heads by Occupation

| Occupation   | Character | Kanc  | hpur   | Me    | ghna   | Gı    | umti   | Т     | otal   |
|--------------|-----------|-------|--------|-------|--------|-------|--------|-------|--------|
|              |           | Male  | Female | Male  | Female | Male  | Female | Male  | Female |
| Business     | No.       | 57    | 2      | 201   | 0      | 15    | 0      | 273   | 2      |
|              | %         | 47.50 | 9.09   | 66.34 | 0      | 83.33 | 0      | 61.90 | 3.45   |
| Service      | No.       | 35    | 7      | 19    | 2      | 0     | 0      | 54    | 9      |
|              | %         | 29.17 | 31.82  | 6.27  | 5.71   | 0     | 0      | 12.24 | 15.52  |
| Day labor    | No.       | 10    | 3      | 43    | 3      | 3     | 0      | 56    | 6      |
|              | %         | 8.33  | 13.64  | 14.19 | 8.57   | 16.67 | 0      | 12.70 | 10.34  |
| Housewife    | No.       | 0     | 6      |       | 25     | 0     | 1      | 0     | 32     |
|              | %         | 0     | 27.27  | 0.00  | 71.43  | 0     | 100    | 0.00  | 55.17  |
| Rickshaw/Van | No.       | 7     |        | 7     |        | 0     | 0      | 14    | 0      |
| Polar        | %         | 5.83  | 0      | 2.31  | 0.00   | 0     | 0      | 3.17  | 0.00   |
| Driver       | No.       | 4     | 0      | 9     |        | 0     | 0      | 13    | 0      |

|             | %   | 3.33 | 0     | 2.97 | 0.00 | 0   | 0   | 2.95 | 0.00  |
|-------------|-----|------|-------|------|------|-----|-----|------|-------|
| Old People  | No. | 1    | 0     | 4    | 1    | 0   | 0   | 5    | 1     |
|             | %   | 0.83 | 0     | 1.32 | 2.86 | 0   | 0   | 1.13 | 1.72  |
| Agriculture | No. | 1    | 0     | 3    |      | 0   | 0   | 4    | 0     |
|             | %   | 0.83 | 0.00  | 0.99 | 0.00 | 0   | 0   | 0.91 | 0.00  |
| Overseas    | No. | 0    | 0     | 4    | 0    | 0   | 0   | 4    | 0     |
| service     | %   | 0    | 0     | 1.32 | 0    | 0   | 0   | 0.91 | 0     |
| Fisherman   | No. | 0    | 0     | 2    | 0    | 0   | 0   | 2    | 0     |
|             | %   | 0    | 0     | 0.66 | 0    | 0   | 0   | 0.45 | 0     |
| Student     | No. | 0    | 0     | 1    | 1    | 0   | 0   | 1    | 1     |
|             | %   | 0    | 0     | 0.33 | 2.86 | 0   | 0   | 0.23 | 1.72  |
| Disabled    | No. | 0    | 0     | 2    | 0    | 0   | 0   | 2    | 0     |
|             | %   | 0    | 0     | 0.66 | 0    | 0   | 0   | 0.45 | 0     |
| Doctor      | No. | 0    | 0     | 1    | 0    | 0   | 0   | 1    | 0     |
|             | %   | 0    | 0     | 0.33 | 0    | 0   | 0   | 0.23 | 0     |
| Others      | No. | 5    | 4     | 7    | 3    | 0   | 0   | 12   | 7     |
|             | %   | 4.17 | 18.18 | 2.31 | 8.57 | 0   | 0   | 2.72 | 12.07 |
| Total       | No. | 120  | 22    | 303  | 35   | 18  | 1   | 441  | 58    |
|             | %   | 100  | 100   | 100  | 100  | 100 | 100 | 100  | 100   |

### 3.4.5 Marital Status

The survey was designed, undertaken and analyzed collected data in a way which adequately identify gender differences. Distribution of population of the Project area by sex and marital status is given in Table 3.20. Gender disaggregating marital status shows that out of 555 married males and 548 married females, 5 males (0.90%) and 41 females (7.48%) belong to the age group 11-20 years who are married. It indicates that in spite of several programs of GoB promoting the delay of marriage until after 20 years of age for females, but the adolescent girls in the project area get married within 20 years and also even under 18 years of their age. It is found that numbers of unmarried males and females under the entire surveyed area are 329 and 180 respectively. Out of 329 unmarried males, 239 (72.64%) are the highest that belong to the age group 11-20 years followed by 88 (26.75%) belong to 21-30 the age group. Out of 180 unmarried females, 169 (93.89%) belong to 11-20 years of age followed by 10 (5.56%) belong to 21-30 years. Details on marital status of surveyed population in the entire project area are shown in Table 3.20.

Table 3.20 Marital Status of Affected Male & Female Population under the Entire Project Area

| Marital   | Sex    | Character |          |          | A           | Age Level |             |          |       |
|-----------|--------|-----------|----------|----------|-------------|-----------|-------------|----------|-------|
| Status    |        |           | 11 to 20 | 21 to 30 | 31 to<br>40 | 41 to 50  | 51 to<br>60 | Above 60 | Total |
| Married   | Male   | No.       | 5        | 119      | 151         | 124       | 103         | 53       | 555   |
|           |        | %         | 0.90     | 21.44    | 27.21       | 22.34     | 18.56       | 9.55     | 100   |
|           | Female | No.       | 41       | 187      | 135         | 126       | 37          | 22       | 548   |
|           |        | %         | 7.48     | 34.12    | 24.64       | 22.99     | 6.75        | 4.01     | 100   |
| Unmarried | Male   | No.       | 239      | 88       | 2           | 0         | 0           | 0        | 329   |
|           |        | %         | 72.64    | 26.75    | 0.61        | 0.00      | 0.00        | 0.00     | 100   |
|           | Female | No.       | 169      | 10       | 0           | 0         | 1           | 0        | 180   |
|           |        | %         | 93.89    | 5.56     | 0.00        | 0.00      | 0.56        | 0.00     | 100   |
| Widower/  | Male   | No.       | 0        | 0        | 0           | 0         | 1           | 7        | 8     |
| Widow     |        | %         | 0        | 0        | 0           | 0         | 12.5        | 87.5     | 100   |
|           | Female | No.       | 1        | 1        | 1           | 15        | 17          | 34       | 69    |
|           |        | %         | 1        | 1        | 1           | 22        | 25          | 49       | 100   |
| Abandoned | Female | No.       | 1        | 5        | 2           | 6         | 2           | 0        | 16    |
|           |        | %         | 6.25     | 31.25    | 12.50       | 37.50     | 12.50       | 0.00     | 100   |
| Divorced  | Female | No.       | 0        | 2        | 0           | 0         | 0           | 0        | 2     |
|           |        | %         | 0        | 100      | 0           | 0         | 0           | 0        | 100   |

### 3.4.6 Income and Poverty Dimensions

As per the Statistical Year Book of Bangladesh 2005, average household size is 5.13 and 40.94% of households earn less than BDT 60,000 per year. Average annual income and expenditure of these households are BDT 24,648 and BDT 32,072 respectively. Table 3.22 shows that as per this survey, each of 53 households (10.62%) in the Project area earn less than BDT 60,000 per year. Income level up to BDT 60,000/year has been categorized as vulnerable in "Southwest Area Integrated Water Resources Planning and Management Project (2011) "financed by ADB and this value is adopted to this study because of proximity of the area and reflects current social condition of recent years. These 53 households may be considered as extremely poor and each of 185 households (37.07%) within the range of BDT 60,001 to 120,000 is poor. It should be mentioned that each of 261 households (52.30%) earn above BDT 120,000 is non-poor.

It is found in the Kanchpur Bridge area that each of 21 households (16.90%) earn income less than BDT 60,000 per year. These households are considered as extremely poor. Each of 59 affected

households (41.55%) earns income ranging from BDT 60,001 and 120,000 per year which households are considered as the poor. On the contrary, each of 59 affected households (41.55%) earns income above BDT 120,001 is considered to be the non-poor.

It is found in the Meghna Bridge area that each of 24 households (7.11%) earn income less than BDT 60,000 per year. These households are considered as extremely poor. Each of 120 households (35.50%) earns income ranging from BDT 60,001 and 120,000 per year. These households are considered as the poor households. On the contrary, each of 194 households (57.40%) earns income above BDT 120,001 is considered to be non-poor.

It is found in the Gumti Bridge area that each of 5 households (26.31%) earn income less than BDT 60,000 per year. These households are considered as extremely poor. Each of 6 households (31.58%) earns income ranging from BDT 60,001 and 120,000 per year. These households are considered as the poor households. On the contrary, each of 8 households (42.11%) earns income above BDT 120,001 is considered to be non-poor.

Table 3.21 Distribution of the Households by Annual Income in the Three Bridge Areas

| Yearly Income   | Kanchpur |       | Meghna |       | Gu  | mti   | Total |       |
|-----------------|----------|-------|--------|-------|-----|-------|-------|-------|
| level           | No.      | %     | No.    | %     | No. | %     | No    | %     |
| Up to TK 30,000 | 9        | 6.34  | 6      | 1.78  | 1   | 5.26  | 16    | 3.21  |
| 30,001-60000    | 15       | 10.56 | 18     | 5.33  | 4   | 21.05 | 37    | 7.41  |
| 60,001-90,000   | 25       | 17.61 | 51     | 15.09 | 1   | 5.26  | 77    | 15.43 |
| 90,001-120,000  | 34       | 23.94 | 69     | 20.41 | 5   | 26.32 | 108   | 21.64 |
| Above 120,000   | 59       | 41.55 | 194    | 57.40 | 8   | 42.11 | 261   | 52.30 |
| Total           | 142      | 100   | 338    | 100   | 19  | 100   | 499   | 100   |

Source: Study Team, 2012

### **3.4.7 Yearly Household Expenditure**

Table 3.22 shows almost similar trend on yearly household expenditure compared to income in Kanchpur, Meghna and Gumti Bridge areas. In Kanchpur Bridge area, each of 40% of the households has yearly expenditure above BDT 120,000. Each of 29% of the households has yearly expenditure ranged from BDT 60,000 to BDT 90,000. Each of 8% of the households has yearly expenditure within BDT 30,000. In Meghna Bridge area, each of 52% of the households has yearly expenditure above BDT 120,000. It is found that each of 20.41% of the households has yearly expenditure ranged from BDT 90,001-BDT 120,000. Each of 20% of the households has yearly expenditure ranged from BDT 60,001-BDT 90,000. Each of 2.07% of the households has

yearly expenditure within BDT 30,000. In the Gumti Bridge area, each of 47.37% of the households has yearly expenditure above BDT 120,000. Each of 21% of the households has yearly expenditure ranged from BDT 60,001-BDT 90,000 and each of another 21% of the households has yearly expenditure ranged from BDT 30,001-BDT 60,000.

Table 3.22 Distribution of Households by Yearly Expenditure in the Three Bridge Areas

| Yearly Expediter | Kanchpur |       | Meg | ghna  | Gu  | ımti  | Total |       |
|------------------|----------|-------|-----|-------|-----|-------|-------|-------|
| level            | No.      | %     | No. | %     | No. | %     | No    | %     |
| Up to TK 30,000  | 11       | 7.75  | 7   | 2.07  | 0   | 0.00  | 18    | 3.61  |
| 30,001-60000     | 13       | 9.15  | 20  | 5.92  | 4   | 21.05 | 37    | 7.41  |
| 60,001-90,000    | 41       | 28.87 | 66  | 19.53 | 4   | 21.05 | 111   | 22.24 |
| 90,001-120,000   | 20       | 14.08 | 69  | 20.41 | 2   | 10.53 | 91    | 18.24 |
| Above 120,000    | 57       | 40.14 | 176 | 52.07 | 9   | 47.37 | 242   | 48.50 |
| Total            | 142      | 100   | 338 | 100   | 19  | 100   | 499   | 100   |

Source: Study Team, 2012

### 3.4.8 Access to Electricity

In Kanchpur area, out of 142 households, 128 households (90.14%) have electricity supplied from national grid. In Meghna Bridge area, out of 338 households, 263 households (77.81%) have electricity access from national grid while 2.66% are from solar energy and 19.53% have no any source of electricity. In Gumti Bridge area out of 19 households, 9 households (47.37%) have electricity access from national grid while 5.27% are from solar energy by themselves and 47.37% have no any source (Table 3.23).

Table 3.23 Distribution of Households by Access to Electricity by Type

| Name of the<br>Bridge | Nation       | al Grid | Solar panel  |      | Do not ha<br>type of ele | •     | Total        |     |
|-----------------------|--------------|---------|--------------|------|--------------------------|-------|--------------|-----|
|                       | No of<br>HHs | %       | No of<br>HHs | %    | No of<br>HHs             | %     | No of<br>HHs | %   |
| Kanchpur              | 128          | 90.14   | 0            | 0.00 | 14                       | 9.86  | 142          | 100 |
| Meghna                | 263          | 77.81   | 9            | 2.66 | 66                       | 19.53 | 338          | 100 |
| Gumti                 | 9            | 47.37   | 1            | 5.26 | 9                        | 47.37 | 19           | 100 |

Source: Study Team, 2012

# 3.4.9 Utilization of Electricity

Table 3.24 shows utilization of electricity by the consumers including light, fan and others. The highest utilization of electricity is for light (51.28% in Kanchpur Bridge, 54.75% in Meghna

Bridge and 62.50% in Gumti Bridge) and second highest utilization is for fan (34.08% in Kanchpur Bridge, 32.91% in Meghna Bridge and 25% in Gumti Bridge

**Table 3.24** Use of Electricity for Various Purposes

| Type of uses | Kanch | pur   | ur Meg |       | Gu  | Gumti |      | otal  |
|--------------|-------|-------|--------|-------|-----|-------|------|-------|
|              | No.   | %     | No.    | %     | No. | %     | No.  | %     |
| Light        | 480   | 51.28 | 1078   | 54.75 | 30  | 62.50 | 1588 | 53.78 |
| Fan          | 319   | 34.08 | 648    | 32.91 | 12  | 25.00 | 979  | 33.15 |
| Others       | 137   | 14.64 | 243    | 12.34 | 6   | 12.50 | 386  | 13.07 |
| Total        | 936   | 100   | 1969   | 100   | 48  | 100   | 2953 | 100   |

Source: Study Team, 2012

#### 3.4.10 Water and Sanitation

Percentage distribution of households by main sources of drinking water is shown in Table 3.25. It is found that 90.48% of households use shallow/hand tube wells for drinking water in the Gumti Bridge area followed by 58.41% of households in the Meghna Bridge area that is further followed by 51.39% of households in the Kanchpur Bridge area. It is found that deep tube wells are used by 38% and 22% households for drinking water in the Meghna Bridge and Kanchpur Bridge areas respectively. Over 25% of the population drinks supply water in Kanchpur bridge area.

Table 3.25 Distribution of Households by Source of Drinking Water

| Source of water        | Kanchpur        | Meghna          | Gumti           |
|------------------------|-----------------|-----------------|-----------------|
|                        | % of households | % of households | % of households |
| Shallow/hand tube well | 51.39           | 58.41           | 90.48           |
| Deep tube well         | 21.53           | 38.05           | 0               |
| Supply                 | 25.69           | 3.24            | 4.76            |
| River                  | 1.39            | 0.29            | 0               |
| Pond                   | 0               | 0               | 0               |
| Canal                  | 0               | 0               | 4.76            |
| Rain Water             | 0               | 0               | 0               |
| Total                  | 100             | 100             | 100             |

Source: Study Team, 2012

In Kanchpur Bridge area, about 41% households use pond water for various purposes except drinking followed by 21% households use supply water that is further followed by 16%

households use river water for the same purposes. However, shallow/hand tube wells and deep tube wells are also used by 12.41% and 10.34% households respectively for the same purposes. In the Meghna Bridge area, 45% and 29.14% of households use river and shallow/hand tube well water respectively for the same purpose. However, 18% households use deep tube wells for the same purposes. On the other hand, 58% households in the Gumti Bridge area use river water for the said purpose. It is followed by 32% households use pond water for the said purposes. Details on use of sources of water used by the surveyed households in Kanchpur, Meghna and Gumti Bridge area for various purposes other than drinking are shown in Table 3.26.

Table 3.26 Distribution of Households by Sources of Water for Other Utilization of Water

| Source of water   | Kanchpur | Meghna | Gumti |
|-------------------|----------|--------|-------|
|                   | %        | %      | %     |
| Shallow Tube well | 12.41    | 29.14  | 0     |
| Deep Tube well    | 10.34    | 17.71  | 0     |
| Supply            | 20.69    | 3.43   | 5.26  |
| River             | 15.86    | 44.57  | 57.89 |
| Pond              | 40.69    | 5.14   | 31.58 |
| Canal             | 0        | 0      | 5.26  |
| Total             | 100      | 100    | 100   |

Source: Study Team, 2012

The project area wise distribution of households by sanitation facilities is shown in Table 3.27. In the entire project areas, 67.33% households use water sealed slab latrines followed by 21.24% households use pucca (Sanitary) latrines that is further followed by 6.21% households use hanging latrines. In the Kanchpur Bridge area, about 62% households use water sealed slab latrines followed by 32.39% households use pucca latrines. In Meghna Bridge area, about 69% households use water sealed slab latrines followed by 17.46% households use pucca latrines that is further followed by 7.40% households use hanging latrines. In the Gumti Bridge area, about 79% households use water sealed slab latrines followed by 16% households use hanging latrines.

**Table 3.27 Distribution of Households by Sanitation Facilities** 

| Use of        | Kanchpur |       | Meghna |       | Gu  | mti   | Total |       |
|---------------|----------|-------|--------|-------|-----|-------|-------|-------|
| Toilets       | No.      | %     | No.    | %     | No. | %     | No    | %     |
| Pucca         | 46       | 32.39 | 59     | 17.46 | 1   | 5.26  | 106   | 21.24 |
| Slab          | 88       | 61.97 | 233    | 68.93 | 15  | 78.95 | 336   | 67.33 |
| Katcha        | 2        | 1.41  | 17     | 5.03  | 0   | 0     | 19    | 3.81  |
| Hang          | 3        | 2.11  | 25     | 7.40  | 3   | 16    | 31    | 6.21  |
| Open<br>Space | 3        | 2.11  | 4      | 1.18  | 0   | 0     | 7     | 1.40  |
| Total         | 142      | 100   | 338    | 100   | 19  | 100   | 499   | 100   |

Pucca: Mud wall toilet

Slab: Toilet with concrete ring over the cesspit

Katch: Bamboo wall toilet

Hang: Toilet directly dropping on to ground/pond over silted elevated house

Source: Study Team, 2012

## 3.4.11 Institutional Loan

Table 3.28 shows distribution of households under the Kanchpur, Meghna and Gumti Bridge areas, those took microcredit from locally active different NGOs and Banks. Different national NGOs such as BRAC, ASA, Grameen Bank, local NGOs/Samity (Society) and private of government Banks have provided loans to the people with a view to uphold their standard of living. Duration of most of the loans is less than 2 years except only 1 loan is for 10 years. In most of the cases minimum size of loans is more than BDT 10,000.

Table 3.28 Microcredit Support Taken by the Surveyed Households

| Name of the Bridge | Name of<br>Source | No.<br>HH | Average loan size (BDT) | Minimum<br>size of loan<br>(BDT) | Maximum<br>size of loan<br>(BDT) | Duration<br>for loan<br>(yr) |
|--------------------|-------------------|-----------|-------------------------|----------------------------------|----------------------------------|------------------------------|
| Kanchpur           | BRAC              | 25        | 65,920                  | 10,000                           | 400,000                          | 2                            |
|                    | ASA               | 21        | 81,429                  | 10,000                           | 450,000                          | 1                            |
|                    | Local NGOs        | 11        | 77,818                  | 5,000                            | 500,000                          | 1                            |
|                    | Govt. Banks       | 3         | 128,333                 | 10,000                           | 300,000                          | 2                            |
|                    | Grameen Bank      | 3         | 21,667                  | 10,000                           | 40,000                           | 1                            |
|                    | Private Bank      | 1         | 120,000                 | 120,000                          | 120,000                          | 10                           |
| Meghna             | Grameen Bank      | 43        | 53,384                  | 10,000                           | 500,000                          | 1                            |
|                    | Local NGOs        | 40        | 19,075                  | 5,000                            | 70,000                           | 1                            |
|                    | BRAC              | 34        | 121,000                 | 3,000                            | 900,000                          | 1                            |
|                    | ASA               | 29        | 47,207                  | 10,000                           | 150,000                          | 1                            |

|       | Private Bank | 28 | 2,514,643 | 20,000 | 40,000,000 | 2 |
|-------|--------------|----|-----------|--------|------------|---|
|       | Govt. Banks  | 13 | 44,962    | 8,000  | 150,000    | 2 |
| Gumti | BRAC         | 5  | 70,000    | 20,000 | 130,000    | 1 |
|       | ASA          | 2  | 25,000    | 20,000 | 30,000     | 1 |
|       | Local NGO    | 1  | 53,000    | 53,000 | 53,000     | 1 |
|       | Grameen Bank | 1  | 40,000    | 40,000 | 40,000     | 1 |

## 3.4.12 Housing Pattern

Table 3.29 shows that overwhelming percentages of houses (ranging from 75% to 86% of houses) are tin roofed in the project area. It was followed by pucca (concrete roof with brick wall) houses (5%-8%) in these Bridge areas which are further followed by semi-pucca (Tin roofed with brick wall) houses (5%-7%).

Table 3.29 Housing Pattern in the Project in Terms of Housing Material

| Type of Structure     | Kano | chpur | M   | Meghna |     | mti | Total |       |  |
|-----------------------|------|-------|-----|--------|-----|-----|-------|-------|--|
|                       | No.  | %     | No. | %      | No. | %   | No.   | %     |  |
| Pucca                 | 16   | 5.14  | 57  | 8.25   | 0   | 0   | 73    | 6.94  |  |
| Semi-Pucca            | 22   | 7.07  | 34  | 4.92   | 0   | 0   | 56    | 5.32  |  |
| Tin roofed and fenced | 260  | 83.60 | 516 | 74.67  | 43  | 86  | 819   | 77.85 |  |
| Katcha                | 7    | 2.25  | 44  | 6.37   | 3   | 6   | 54    | 5.13  |  |
| Thatched              | 6    | 1.93  | 40  | 5.79   | 4   | 8   | 50    | 4.75  |  |
| Total                 | 311  | 100   | 691 | 100    | 50  | 100 | 1052  | 100   |  |

Source: Study Team, 2012

## 3.4.13 Household Assets

The Project area wise household assets are shown in Table 3.30. It is found that furniture, fridges, TVs, and other electronic materials and household accessories are found in the Project areas. Overwhelming numbers of chairs, beds, tables, shelves and dress stands are found in the Project areas. It is found that the highest and the lowest household appliances are found in the Meghna Bridge and Gumti Bridge area respectively compared to Kanchpur Bridge area.

Table 3.30 Household Assets

| Household                        | Kano | chpur | Meg  | ghna  | Gu  | mti   | То   | tal   |
|----------------------------------|------|-------|------|-------|-----|-------|------|-------|
| Appliances                       | No.  | %     | No.  | %     | No. | %     | No.  | %     |
| Chair                            | 300  | 18.33 | 1618 | 33.99 | 39  | 25.83 | 1957 | 29.89 |
| Bed                              | 295  | 18.02 | 681  | 14.31 | 36  | 23.84 | 1012 | 15.46 |
| Table                            | 149  | 9.10  | 441  | 9.26  | 13  | 8.61  | 603  | 9.21  |
| Almirah                          | 110  | 6.72  | 183  | 3.84  | 9   | 5.96  | 302  | 4.61  |
| Dress Stand                      | 75   | 4.58  | 196  | 4.12  | 13  | 8.61  | 284  | 4.34  |
| Fridge                           | 55   | 3.36  | 122  | 2.56  | 0   | 0.00  | 177  | 2.70  |
| Mobile Phone                     | 215  | 13.13 | 529  | 11.11 | 17  | 11.26 | 761  | 11.62 |
| Television                       | 106  | 6.48  | 216  | 4.54  | 6   | 3.97  | 328  | 5.01  |
| DVD Player                       | 25   | 1.53  | 37   | 0.78  | 1   | 0.66  | 63   | 0.96  |
| Radio                            | 11   | 0.67  | 13   | 0.27  | 4   | 2.65  | 28   | 0.43  |
| Cassette Player                  | 9    | 0.55  | 10   | 0.21  | 1   | 0.66  | 20   | 0.31  |
| Iron                             | 19   | 1.16  | 17   | 0.36  | 0   | 0.00  | 36   | 0.55  |
| stands for electronic equipment  | 2    | 0.12  | 3    | 0.06  | 2   | 1.32  | 7    | 0.11  |
| stands for household accessories | 266  | 16.25 | 694  | 14.58 | 10  | 6.62  | 970  | 14.81 |
| Total                            | 1637 | 100   | 4760 | 100   | 151 | 100   | 6548 | 100   |

# Health care facility

There are several categories health care facilities in the Project surrounded areas such as hospital, clinic, rural dispensary, etc. within the reach of the people. These are mostly found within 5 km except Government Hospital in Kanchpur Bridge area. In other Bridge areas the scenario is almost similar. Details on health care facilities and distance from their residence in the Kanchpur Bridge, the Meghna Bridge and the Gumti Bridge areas are shown in Table 3.31.

**Table 3.31 Distance of Healthcare Center** 

| Name of        | Healthcare                    | Up to | 1 km  | 1 to 3 | 3 km  | 3 to 5 | km    | Abov | e 5 km | Total |     |
|----------------|-------------------------------|-------|-------|--------|-------|--------|-------|------|--------|-------|-----|
| Bridge         | center                        | No.   | %     | No.    | %     | No.    | %     | No.  | %      | No.   | %   |
|                | Government<br>Hospital        | 2     | 1.41  | 1      | 0.70  | 1      | 0.70  | 138  | 97.18  | 142   | 100 |
| ur             | Upazila<br>Health<br>complex  | 3     | 2.07  | 19     | 13.10 | 65     | 44.83 | 58   | 40.00  | 145   | 100 |
| Kanchpur       | Private<br>Hospital           | 105   | 74.47 | 24     | 17.02 | 7      | 4.96  | 5    | 3.55   | 141   | 100 |
| K              | Rural<br>healthcare<br>center | 135   | 97.12 | 2      | 1.44  | 2      | 1.44  | 0    | 0.00   | 139   | 100 |
|                | Family care center            | 122   | 84.72 | 5      | 3.47  | 2      | 1.39  | 15   | 10.42  | 144   | 100 |
| Me<br>gh<br>na | Government                    | 2     | 0.59  | 2      | 0.59  | 4      | 1.18  | 330  | 97.63  | 338   | 100 |

|       | Hospital                      |     |       |    |       |    |       |     |       |     |     |
|-------|-------------------------------|-----|-------|----|-------|----|-------|-----|-------|-----|-----|
|       | Upazila<br>Health<br>complex  | 3   | 0.89  | 21 | 6.21  | 81 | 23.96 | 233 | 68.93 | 338 | 100 |
|       | Private<br>Hospital           | 84  | 24.85 | 98 | 28.99 | 31 | 9.17  | 125 | 36.98 | 338 | 100 |
|       | Rural<br>healthcare<br>center | 266 | 79.17 | 13 | 3.87  | 31 | 9.23  | 26  | 7.74  | 336 | 100 |
|       | Family care center            | 237 | 70.33 | 23 | 6.82  | 2  | 0.59  | 75  | 22.26 | 337 | 100 |
|       | Government<br>Hospital        | 0   | 0.00  | 1  | 5.26  | 2  | 10.53 | 16  | 84.21 | 19  | 100 |
|       | Upazila<br>Health<br>complex  | 1   | 5.26  | 2  | 10.53 | 12 | 63.16 | 4   | 21.05 | 19  | 100 |
| Gumti | Private<br>Hospital           | 3   | 15.79 | 13 | 68.42 | 2  | 10.53 | 1   | 5.26  | 19  | 100 |
|       | Rural<br>healthcare<br>center | 15  | 78.95 | 4  | 21.05 | 0  | 0.00  | 0   | 0.00  | 19  | 100 |
|       | Family care center            | 18  | 90.00 | 2  | 10.00 | 0  | 0.00  | 0   | 0.00  | 20  | 100 |

## 3.4.14 Educational Institutions

A lot of educational institutions are found in the Project area mostly schools, colleges and Madrasah. There is no University in the project area. The educational institutions are mainly located within 5 km except Universities. Islamic religious institutions such as Madrasah and Maktob are also fund a bit more in number in the Project area. It is found that overwhelming percentages of primary schools, non-formal education, *Madrassa* and *Maktob* are located within 1 kilometer distance in the Kanchpur Bridge, the Meghna Bridge and the Gumti Bridge area. Available educational institutions in the Kanchpur Bridge, Meghna Bridge and Gumti Bridge and distance from the residence shown in Table 3.32.

**Table 3.32 Distance of Educational Institutes** 

| Name         | Educational             | Up t | o 1 km | 1 to | 3 km  | 3 to | 5 km  | >5  | km    | To  | otal |
|--------------|-------------------------|------|--------|------|-------|------|-------|-----|-------|-----|------|
| of<br>Bridge | institute               | No.  | %      | No.  | %     | No.  | %     | No. | %     | No. | %    |
|              | University              | 0    | 0.00   | 1    | 0.71  | 3    | 2.13  | 137 | 97.16 | 141 | 100  |
|              | College                 | 45   | 32.14  | 46   | 32.86 | 43   | 30.71 | 6   | 4.29  | 140 | 100  |
| ÷            | High School             | 93   | 66.43  | 43   | 30.71 | 4    | 2.86  | 0   | 0.00  | 140 | 100  |
| Kanchpur     | Primary School          | 128  | 93.43  | 9    | 6.57  | 0    | 0.00  | 0   | 0.00  | 137 | 100  |
| Kan          | Non-formal<br>Education | 133  | 97.08  | 3    | 2.19  | 0    | 0.00  | 1   | 0.73  | 137 | 100  |
|              | Madrasah                | 129  | 96.27  | 4    | 2.99  | 1    | 0.75  | 0   | 0.00  | 134 | 100  |
|              | Maktob                  | 103  | 100    | 0    | 0.00  | 0    | 0.00  | 0   | 0.00  | 103 | 100  |
|              | University              | 0    | 0.00   | 0    | 0.00  | 1    | 0.30  | 337 | 99.70 | 338 | 100  |
|              | College                 | 6    | 1.77   | 37   | 10.91 | 124  | 36.58 | 172 | 50.74 | 339 | 100  |
| _            | High School             | 201  | 59.47  | 111  | 32.84 | 17   | 5.03  | 9   | 2.66  | 338 | 100  |
| Meghna       | Primary School          | 326  | 96.74  | 10   | 2.97  | 0    | 0.00  | 1   | 0.30  | 337 | 100  |
| Ме           | Non formal<br>Education | 318  | 99.07  | 2    | 0.62  | 0    | 0.00  | 1   | 0.31  | 321 | 100  |
|              | Madrasah                | 326  | 98.49  | 3    | 0.91  | 0    | 0.00  | 2   | 0.60  | 331 | 100  |
|              | Maktob                  | 258  | 99.61  | 1    | 0.39  | 0    | 0.00  | 0   | 0.00  | 259 | 100  |
|              | University              | 0    | 0.00   | 0    | 0.00  | 0    | 0.00  | 19  | 100   | 19  | 100  |
|              | College                 | 0    | 0.00   | 0    | 0.00  | 13   | 68.42 | 6   | 31.58 | 19  | 100  |
|              | High School             | 3    | 15.79  | 14   | 73.68 | 2    | 10.53 | 0   | 0.00  | 19  | 100  |
| Gumti        | Primary School          | 19   | 100    | 0    | 0.00  | 0    | 0.00  | 0   | 0.00  | 19  | 100  |
| <u></u>      | Non formal<br>Education | 19   | 100    | 0    | 0.00  | 0    | 0.00  | 0   | 0.00  | 19  | 100  |
|              | Madrasah                | 19   | 100    | 0    | 0.00  | 0    | 0.00  | 0   | 0.00  | 19  | 100  |
|              | Maktob                  | 15   | 100    | 0    | 0.00  | 0    | 0.00  | 0   | 0.00  | 15  | 100  |

#### CHAPTER 4. LEGAL FRAMEWORK

### 4.1 Law and Policy on Land Acquisition in Bangladesh

The current legislations governing land acquisition for Bangladesh is the Acquisition and Requisition of Immovable Property Ordinance 1982 (hereinafter, "the Ordinance") and subsequent amendments (1989, 1993, 1994 and 2004). The Ordinance provides certain safeguards for landowners and has provisions for payment of 'fair value' for the property acquired. Besides, the 1994 amendment made provisions for payment of crop compensation to tenant cultivators. However, it does not cover project-affected persons without titles or ownership record, such as informal settler/squatters, occupiers, and informal tenants and lease-holders (without document) and does not ensure replacement value of the property acquired. It does not permit the affected persons to take the salvageable materials for which compensation have been paid by the DC. It has no provision of resettlement assistance and transitional allowances for restoration of livelihoods of the non-titled affected persons.

In all cases, the Deputy Commissioner (DC) determines (i) market value of acquired assets on the date of notice of acquisition (based on the registered value of similar property bought and/or sold in the area over the preceding 12 months); and (ii) 50% premium on the assessed value (other than crops) due to compulsory acquisition. The DC payments or "awarded" to owners is called cash compensation under law (CCL). The value thus paid is invariably less than the "market value" as owners customarily report undervalued land transaction prices in order to pay lower stamp duty and registration fees. As a result, compensation for land paid by DC, including premium, remains less than the real market price or replacement value (RV).<sup>1</sup>

The land owner has to establish ownership by producing a record-of-rights (RoR) in order to be eligible for compensation under the law. ROR prepared under Section 143 or 144 of the State Acquisition and Tenancy Act 1950 (revised 1994) are not always updated and as a result legal land owners have faced difficulties trying to "prove" ownership. The APs must also produce rent receipt or receipt of land development tax, but this does not assist in some situations as a person is exempted from payment of rent if the area of land is less than 25 bighas<sup>2</sup> (3.37 ha).

Khas (government owned) lands should be acquired first when a project acquires both khas and private land. If a project acquires only khas, the land will be transferred through an inter-ministerial meeting following the preparation of acquisition proposal submitted to DC/MOL. Places of worship, graveyard and cremation grounds are not to be acquired for any purpose.

The DC processes land acquisition under the Ordinance and pays compensation to the legal owners

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<sup>&</sup>lt;sup>1</sup> There is provision for Arbitration Appellate Tribunal on compensation assessment by the DC, but the law allows only 10 percent enhancements on the DC "award."

 $<sup>^2</sup>$  1 Bigha = 1,340 square meters

of the acquired land. The Ministry of Lands (MOL) is authorized to deal with land acquisition through the DCs.

The Ordinance will be applied for this Project including its subsequent amendments. In addition to the 1982 Ordinance the Project will also use Padma Multipurpose Bridge Project Land Acquisition ACT 2009 for the process of land acquisition. However these rules are mainly applied for formal land title holders only and the affected people by the Project are non-titled people without application of these rules.

## 4.2 National Policy on Involuntary Resettlement

The Government of Bangladesh, with the help of ADB technical assistance (TA), has prepared a national policy on involuntary resettlement, which is consistent with the general policy of the Government that the rights of those displaced by development project shall be fully respected, and persons being displaced shall be treated with dignity and assisted in such a way that safeguards their welfare and livelihoods irrespective of title, gender, and ethnicity.

The Policy on involuntary resettlement recognizes that:

- I All those displaced involuntarily by either project or non-project impacts like erosion and eviction must be resettled and rehabilitated in a productive and sustainable manner.
- II People who are resettled must be able, through their own efforts and/or with support as may be required, to restore or improve upon their level of living.
- III Cash compensation shall be paid in development project at replacement value to those displaced for land and other assets acquired based on established prior ownership and/or user rights. In addition to cash compensation and resettlement, a benefit sharing will be considered where feasible.
- IV Cultural and customary rights of people affected by project are to be protected, particularly those belonging to *adibasis* (indigenous people) and ethnic minorities.
- V Gender equality and equity in all stages and processes of resettlement and rehabilitation will be fully respected.
- VI Affected persons will be informed and consulted in a transparent manner, including formal disclosure of project impacts and mitigation measures.
- VII Vulnerable groups, including landless, *adibasis*, poor women headed households, physically challenged people, elderly and those falling below the nationally defined poverty line (by the government) displaced by project or non-project impacts, are

entitled to additional benefits and assistance in a manner that addresses their specific needs related to socio-economic vulnerability.

VIII Similarly, affected persons and/or businesses on government leased land will be eligible for compensation for loss of access to land and sites.

The draft Policy was submitted to the Government in November 2007. It has been approved by the Ministry of Land on 1 January 2008 and is placed before the Cabinet later in February 2008. Ministry of Land has enacted "The Padma Multipurpose Bridge Project (Land Acquisition) Act 2009" and "Dhaka Elevated Expressway Project Land Acquisition Act, 2011". As of August, 2012, this policy is still in the process of evaluation and approval by the Government.

## 4.3 JICA's Policy on Involuntary Resettlement

The key principle of JICA policies on involuntary resettlement is summarized below:

- I. The key principle of JICA policies on involuntary resettlement is summarized below.
- II. Involuntary resettlement and loss of means of livelihood are to be avoided when feasible by exploring all viable alternatives.
- III. When, population displacement is unavoidable, effective measures to minimize the impact and to compensate for losses should be taken.
- IV. People who must be resettled involuntarily and people whose means of livelihood will be hindered or lost must be sufficiently compensated and supported, so that they can improve or at least restore their standard of living, income opportunities and production levels to pre-project levels.
- V. Compensation must be based on the full replacement cost<sup>3</sup> as much as possible.
- VI. Compensation and other kinds of assistance must be provided prior to displacement. For projects that entail large-scale involuntary resettlement, resettlement action plans must be prepared and made available to the public. It is desirable that the resettlement action plan include elements laid out in the World Bank Safeguard Policy, OP 4.12, Annex A.

| 3 | Descrip | otion | of "re | placement | cost" | is | as | follows. |  |
|---|---------|-------|--------|-----------|-------|----|----|----------|--|
|---|---------|-------|--------|-----------|-------|----|----|----------|--|

Land

Agricultural The pre-project or pre-displacement, whichever is higher, market value of land of equal productive potential or use located in the vicinity of the affected land, plus the cost of preparing Land the land to levels similar to those of the affected land, plus the cost of any registration and transfer taxes Land in The pre-displacement market value of land of equal size and use, with similar or improved Urban public infrastructure facilities and services and located in the vicinity of the affected land, plus Areas the cost of any registration and transfer taxes.

Structure Houses and The market cost of the materials to build a replacement structure with an area and quality Other similar or better than those of the affected structure, or to repair a partially affected structure, Structures plus the cost of transporting building materials to the construction site, plus the cost of any labor and contractors' fees, plus the cost of any registration and transfer taxes.

- VII. In preparing a resettlement action plan, consultations must be held with the affected people and their communities based on sufficient information made available to them in advance. When consultations are held, explanations must be given in a form, manner, and language that are understandable to the affected people.
- VIII. Appropriate participation of affected people must be promoted in planning, implementation, and monitoring of resettlement action plans.
- IX. Appropriate and accessible grievance mechanisms must be established for the affected people and their communities.

Above principles are complemented by World Bank OP 4.12, since it is stated in JICA Guideline that "JICA confirms that projects do not deviate significantly from the World Bank's Safeguard Policies". Additional key principle based on World Bank OP 4.12 is as follows.

- X. Affected people are to be identified and recorded as early as possible in order to establish their eligibility through an initial baseline survey (including population census that serves as an eligibility cut-off date, asset inventory, and socioeconomic survey), preferably at the project identification stage, to prevent a subsequent influx of encroachers of others who wish to take advance of such benefits.
- XI. Eligibility of Benefits include, the PAPs who have formal legal rights to land (including customary and traditional land rights recognized under law), the PAPs who don't have formal legal rights to land at the time of census but have a claim to such land or assets and the PAPs who have no recognizable legal right to the land they are occupying.
- XII. Preference should be given to land-based resettlement strategies for displaced persons whose livelihoods are land-based.
- XIII. Provide support for the transition period (between displacement and livelihood restoration.
- XIV. Particular attention must be paid to the needs of the vulnerable groups among those displaced, especially those below the poverty line, landless, elderly, women and children, ethnic minorities etc.
- XV. For projects that entail land acquisition or involuntary resettlement of fewer than 200 people, abbreviated resettlement plan is to be prepared.

In addition to the above core principles on the JICA policy, it also laid emphasis on a detailed resettlement policy inclusive of all the above points; project specific resettlement plan; institutional framework for implementation; monitoring and evaluation mechanism; time schedule for implementation; and, detailed Financial Plan etc.

# 4.4 Gap Analysis between JICA Guideline and Bangladesh Policy

There is an essential gap between JICA Guidelines and Laws of Bangladesh since any compensation/ assistance is no required to move out none-titled for the project while JICA Guidelines specifies "to improve or at least restore the life level and livelihood of affected people, who has title or not". Table 4.1 suggests how to fill up these gaps in details.

Table 4.1 How to Fill up the Policy Gaps Between JICA Environmental and Social Considerations Guidelines and Laws of Bangladesh

| No. | JICA Environmental<br>and Social<br>Considerations<br>Guidelines (JICA<br>Guidelines)  | Laws of Bangladesh                  | Gaps between JICA Guidelines and Laws of Bangladesh  | Action taken to fill up gaps  |
|-----|--|-------------------------------------|--|---|
| 1.  | Involuntary resettlement and loss of means of livelihood are to be avoided when feasible by exploring all viable alternatives.   | Not specified                       | The 1982 ordinance<br>legislated nothing,<br>while the JICA<br>guidelines require<br>to avoid/minimize<br>resettlement/loss of<br>livelihood   | Route to minimize such impacts were chosen in the view of number of relocated households as shown in Section 2.2  Feasible route selection  |
| 2.  | When population displacement is unavoidable, effective measures to minimize impact and to compensate for losses should be taken. | Not specified for non titled people | There is no provisions for compensation to the non-titled residents in Bangladesh ordinance, while JICA guidelines acknowledge all affected persons whether legally residing or not, eligible for compensation | Compensations were proposed even if non-titled affected people providing:  - Compensation for structures, trees  - Structure transfer assistance  - Structure reconstruction assistance  - Moving assistance for residential house owner  - Tenant moving allowance |

| No. | JICA Environmental<br>and Social<br>Considerations<br>Guidelines (JICA<br>Guidelines)   | Laws of Bangladesh   | Gaps between<br>JICA Guidelines<br>and Laws of<br>Bangladesh   | Action taken to fill<br>up gaps  |
|-----|---|--|--|--|
| 3.  | People who must be resettled involuntarily and people whose means of livelihood will be hindered or lost must be sufficiently compensated and supported, so that they can improve or at least restore their standard of living, income opportunities and production levels to pre-project levels. | Not specified for keeping living standard of affected people same or above pre-project levels.                     | There is no provisions for maintaining living standard of affected people at same or above pre-project levels in Bangladesh ordinance, while JICA guidelines require that no one is worse off as a result of resettlement and would maintain their living level at least original levels | Assistances were proposed in the forms of:  - Grant for business loss - Compensation for losses of plant and fish-stock - Grant for loss of wage employment - Rental fee loss for displaced rent-house owner - One time moving assistance for tenant business owner r - Introduction of micro-credit, - Provision of job training, - Provision of priority employment, etc |
| 4.  | Compensation must<br>be based on the full<br>replacement cost as<br>much as possible.   | Compensation is made based on the pre-determined government prices as are usually quite cheaper than market prices | Compensation is made based on the pre-determined government prices that are usually lower than replacement cost.   | Compensation is<br>proposed market<br>price plus surveyed<br>and verified by<br>PVAC   |
| 5.  | Compensation and other kinds of assistance must be provided prior to displacement.  | Payment is made on predetermined time, regardless before or after the construction starts                          | Compensations and other assistances are made regardless before or after construction, while JICA guidelines requires to make it prior to relocation  | Compensation and assistances were proposed to be provided in timely manner before relocation   |

| No. | JICA Environmental<br>and Social<br>Considerations<br>Guidelines (JICA<br>Guidelines)   | Laws of Bangladesh   | Gaps between<br>JICA Guidelines<br>and Laws of<br>Bangladesh  | Action taken to fill<br>up gaps  |
|-----|---|--|---|--|
| 6.  | For projects that entail large-scale involuntary resettlement, resettlement action plans must be prepared and made available to the public.   | There is no provision for the formulation of RAP and public hearing. Deputy Commissioner contacts to land owner through land Acquisition Officer (LAO), and if land owner has no objection, confirmation operation for compensation amount etc. will bee proceeded | There is no provision for preparation of resettlement action plan that describes all features of resettlement requirements and ready to disclose public.            | RAP shall be prepared since the relocated peoples are estimated more than 200.   |
| 7.  | In preparing a resettlement action plan, consultations must be held with the affected people and their communities based on sufficient information made available to them in advance. | The 1982 Ordinance have provisions to notify the owners of property to be acquired.  | There is no provision in the law for consulting the stakeholders but the land allocation committees at district, division and central government level.             | Seven Focus Group<br>Discussion (FGE), 2<br>stakeholders<br>meetings and door to<br>door consultation for<br>310 households<br>affected were<br>implemented. |
| 8.  | When consultations are held, explanations must be given in a form, manner, and language that are understandable to the affected people.   | No description   | Requirements of<br>JICA guidelines are<br>not specifically<br>mentioned in the<br>Bangladesh laws<br>and rules.   | Explanation was made in local language (Bengal) verbally and with written screen.  |
| 9.  | Appropriate participation of affected people must be promoted in planning, implementation, and monitoring of resettlement action plans.   | There is no provision for the monitoring related activities with the participation of affected people.   | There is no provision in Bangladesh ordinances, while JICA guidelines recommend participation of affected people in planning, implementation and monitoring of RAP. | Based on FGD,<br>Stakeholders'<br>meeting and door to<br>door survey, almost<br>al of them prefers<br>"self relocation <sup>4</sup> "                        |

<sup>&</sup>lt;sup>4</sup> Third preferable option in 4 resettlement options as indicated by ADB. Best is "affected but no need to move", Second is set-back, Third is self relocation by which he/she aggressively takes full responsibility to decide where to

| No. | JICA Environmental<br>and Social<br>Considerations<br>Guidelines (JICA<br>Guidelines)   | Laws of Bangladesh  | Gaps between JICA Guidelines and Laws of Bangladesh  | Action taken to fill up gaps  |
|-----|---|---|--|---|
| 10. | Appropriate and accessible grievance mechanisms must be established for the affected people and their communities.  | Incase AP have objection to compensation amount, the AP should protest and entrust the matter to the Arbitrator. If AP has appeal against Arbitrator's decision, then AP should file a law suit to the court and wait for the sentence. | The laws of Bangladesh states appeal to Arbitrator and court case, while JICA guideline recommends establishing appropriate grievance mechanism for amicable settlement to minimize legal confrontation. | Setting up of<br>grievance mechanism<br>accessible for<br>none-titled affected<br>people was  |
| 11. | Affected people are to be identified and recorded as early as possible in order to establish their eligibility through an initial baseline survey (including population census that serves as an eligibility cut-off date, asset inventory, and socioeconomic survey), preferably at the project identification stage, to prevent a subsequent influx of encroachers of others who wish to take advance of such benefits. | No such an activity required  | There is no provision in Bangladesh ordinances, while JICA guidelines recommends identification of affected people the earliest possible time preferably at the project identification stage             | Census, socioeconomic survey and registration were implemented 16 <sup>th</sup> March 2012, next ay of stakeholders' meetings at Kanchpur and Meghna and all the affected people and his properties were registered and their photos were taken in that time. |

go. Worst is preparation of group relocation sites.

| No. | JICA Environmental<br>and Social<br>Considerations<br>Guidelines (JICA<br>Guidelines)  | Laws of Bangladesh  | Gaps between<br>JICA Guidelines<br>and Laws of<br>Bangladesh   | Action taken to fill up gaps   |
|-----|--|---|--|--|
| 12. | Eligibility of benefits includes, the Project Affected Persons (PAPs) who have formal legal rights to land (including customary and traditional land rights recognized under law), the PAPs who don't have formal legal rights to land at the time of census but have a claim to such land or assets and the PAPs who have no recognizable legal right to the land they are occupying. | -   | -  | There is no legal rights holder except Holcim Cement Factory and Plantation owner who made formal contract with government/RHD to borrow lands   |
| 13. | Preference should be<br>given to land-based<br>resettlement strategies<br>for displaced persons<br>whose livelihoods are<br>land-based.  | -   | -  | There is no land-based affected people   |
| 14. | Provide support for<br>the transition period<br>(between<br>displacement and<br>livelihood<br>restoration).  | There is no provision for support for the transition period.                              | There is no provision in Bangladesh ordinances, while JICA guidelines require providing support for the transition period                  | Following are provided:  - Moving assistance for residential house owner  - Tenant moving allowance  |
| 15. | Particular attention must be paid to the needs of the vulnerable groups among those displaced, especially those below the poverty line, landless, elderly, women and children, ethnic minorities etc.  | There is no provisions for either acknowledgement of or compensation to vulnerable groups | There is no provision in Bangladesh ordinances, while JICA guidelines require providing special attention to vulnerable people and groups. | Vulnerable allowances were proposed to widowed, old, disabled and poor house head families such as - Special Assistance for Vulnerable households - Special Assistance for Vulnerable households |

#### CHAPTER 5. ELIGIBILITY

### 5.1 Project Resettlement Principles & Policies

- I. The Government of Bangladesh will use the Project Resettlement Policy (the Project Policy) for the "Dhaka-Chittagong National Highway No.1 Bridge Construction and Rehabilitation Project" specifically because existing national laws and regulations have not been designed to address involuntary resettlement according to international practice, including JICA's policy. The Project Policy is aimed at filling-in any gaps in what local laws and regulations cannot provide in order to help ensure that PAPs are able to rehabilitate themselves to at least their pre-project condition. This section discusses the principles of the Project Policy and the entitlements of the PAPs based on the type and degree of their losses. Where there are gaps between the Bangladesh's legal framework for resettlement and JICA's Policy on Involuntary Resettlement, practicable mutually agreeable approaches will be designed consistent with Government practices and JICA's Policy.
- II. Land acquisition and involuntary resettlement will be avoided where feasible, or minimized, by identifying possible alternative project designs that have the least adverse impact on the communities in the project area.
- III. Where displacement of households is unavoidable, all PAPs (including communities) losing assets, livelihoods or resources will be fully compensated and assisted so that they can improve, or at least restore, their former economic and social conditions.
- IV. Compensation and rehabilitation support will be provided to any PAPs, that is, any person or household or business which on account of project implementation would have his, her or their:
  - Standard of living adversely affected;
  - Right, title or interest in any house, interest in, or right to use, any land (including premises, agricultural and grazing land, commercial properties, tenancy, or right in annual or perennial crops and trees or any other fixed or moveable assets, acquired or possessed, temporarily or permanently;
  - Income earning opportunities, business, occupation, work or place of residence or habitat adversely affected temporarily or permanently; or
  - Social and cultural activities and relationships affected or any other losses that may be identified during the process of resettlement planning.
- V. All affected people will be eligible for compensation and rehabilitation assistance, irrespective of tenure status, social or economic standing and any such factors that may discriminate against achievement of the objectives outlined above. Lack of legal rights to the assets lost or adversely affected tenure status and social or economic status will not bar the PAPs from entitlements to such compensation and rehabilitation measures or resettlement objectives. All PAPs residing, working, doing business and/or cultivating land within the project impacted

areas as of the date of the latest census and inventory of lost assets(IOL), are entitled to compensation for their lost assets (land and/or non-land assets), at replacement cost, if available and restoration of incomes and businesses, and will be provided with rehabilitation measures sufficient to assist them to improve or at least maintain their pre-project living standards, income-earning capacity and production levels.

- VI. PAPs that lose only part of their physical assets will not be left with a portion that will be inadequate to sustain their current standard of living. The minimum size of remaining land and structures will be agreed during the resettlement planning process.
- VII. People temporarily affected are to be considered PAPs and resettlement plans address the issue of temporary acquisition.
- VIII. Where a host community is affected by the development of a resettlement site in that community, the host community shall be involved in any resettlement planning and decision-making. All attempts shall be made to minimize the adverse impacts of resettlement upon host communities.
- IX. The resettlement plans will be designed in accordance with "Acquisition and Requisition of Immovable Property Ordinance", (1982) and JICA's Policy on Involuntary Resettlement.
- X. The Resettlement Plan will be translated into local languages and disclosed for the reference of PAPs as well as other interested groups.
- XI. Payment for land and/or non-land assets will be based on the principle of replacement cost.
- XII. Compensation for PAPs dependent on agricultural activities will be land-based wherever possible. Land-based strategies may include provision of replacement land, ensuring greater security of tenure, and upgrading livelihoods of people without legal land titles. If replacement land is not available, other strategies may be built around opportunities for re-training, skill development, wage employment, or self-employment, including access to credit. Solely cash compensation will be avoided as an option if possible, as this may not address losses that are not easily quantified, such as access to services and traditional rights, and may eventually lead to those populations being worse off than without the project.
- XIII. Replacement lands, if the preferred option of PAPs, should be within the immediate vicinity of the affected lands wherever possible and be of comparable productive capacity and potential<sup>1</sup>.
   As a second option, sites should be identified that minimize the social disruption of those affected; such lands should also have access to services and facilities similar to those available in the lands affected.
- XIV. Resettlement assistance will be provided not only for immediate loss, but also for a transition period needed to restore livelihood and standards of living of PAPs. Such support could take

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<sup>&</sup>lt;sup>1</sup> Agricultural land for land of equal productive capacity means that the land provided as compensation should be able to produce the same or better yield the AP was producing on his/her land prior to the project. The production should be in the planting season immediately following the land acquisition. It can be for a future period if transitional allowance equal to the household's previous yield is provided to the AP household while waiting for the land to get back to the same productivity as the previous land.

- the form of short-term jobs, subsistence support, salary maintenance, or similar arrangements.
- XV. The resettlement plan must consider the needs of those most vulnerable to the adverse impacts of resettlement (including the poor, those without legal title to land, ethnic minorities, women, children, elderly and disabled) and ensure they are considered in resettlement planning and mitigation measures identified. Assistance should be provided to help them improve their socio-economic status.
- XVI. PAPs will be involved in the process of developing and implementing resettlement plans.
- XVII. PAPs and their communities will be consulted about the project, the rights and options available to them, and proposed mitigation measures for adverse effects, and to the extent possible be involved in the decisions that are made concerning their resettlement.
- XVIII. Adequate budgetary support will be fully committed and made available to cover the costs of land acquisition (including compensation and income restoration measures) within the agreed implementation period. The funds for all resettlement activities will come from the Government.
- XIX. Displacement does not occur before provision of compensation and of other assistance required for relocation. Sufficient civic infrastructure must be provided in resettlement site prior to relocation. Acquisition of assets, payment of compensation, and the resettlement and start of the livelihood rehabilitation activities of PAPs, will be completed prior to any construction activities, except when a court of law orders so in expropriation cases. (Livelihood restoration measures must also be in place but not necessarily completed prior to construction activities, as these may be ongoing activities.)
- XX. Organization and administrative arrangements for the effective preparation and implementation of the resettlement plan will be identified and in place prior to the commencement of the process; this will include the provision of adequate human resources for supervision, consultation, and monitoring of land acquisition and rehabilitation activities.
- XXI. Appropriate reporting (including auditing and redress functions), monitoring and evaluation mechanisms, will be identified and set in place as part of the resettlement management system. An external monitoring group will be hired by the project and will evaluate the resettlement process and final outcome. Such groups may include qualified NGOs, research institutions or universities.

#### 5.2 Cut-off-date of Eligibility

The cut-off-date of eligibility refers to the date prior to which the occupation or use of the Project area makes residents/users of the same eligible to be categorized as PAPs and be eligible to the Project entitlements. In the Project, the cut-off-date was determined as the date when census survey is started on 8<sup>th</sup> March 2012 for Kanchpur Bridge and 15<sup>th</sup> March 2012 for Meghna and Gumti Bridge. This date has been disclosed to each affected community by the relevant local governments and the communities have disclosed to their populations. The establishment of the eligibility cut-off

date is intended to prevent the influx of ineligible non-residents who might take advantage of the Project entitlements

#### 5.3 Principle of Replacement Cost

All compensation for assets owned by households/shop owners who meet the cut-off-date will be based on the principle of replacement cost. Replacement cost is the amount calculated before displacement which is needed to replace an affected asset without depreciation and without deduction for taxes and/or costs of transaction as follows:

Replacement cost survey for the structures and trees was conducted using structured questionnaire among the local people knowledgeable about price of housing materials and construction cost, such as businessmen (CI Sheet, Rod, Bamboo, or Wood), etc. At the same time information was collected from other people who constructed structures. The structures are mainly categorized in five different groups i.e. Pucca, Semi Pucca, Tin made, Katcha (bamboo) and Thatched. Some secondary structures such as latrine, tube wells, boundary wall, water tank, bill board, etc. were also found affected. Compensation rates for affected structures were determined based on the current market prices for building material and labour costs collected from 26 persons. Market surveys were carried out to determine the cost of construction and the rates for four categories of structures.

Different species of trees both fruit bearing and timber type have been evaluated through interviewing the local people based on girth and species. Rents paid by the PAPs within the project area were also collected in the replacement cost survey.

Result of unit cost survey and unit cost to be adopted for this project is shown in Table 5.1.

**Table 5.1 Result of Unit Cost Survey** 

|                            | Kan                      | chpur, Meghna aı | nd Gumti Bridge (2 | (012)        | Unit Cost                |
|----------------------------|--------------------------|------------------|--------------------|--------------|--------------------------|
| Item                       | Kanchpur                 | Meghna           | Gumti              | Average      | Adopted for This Project |
| Residential Houses         |                          |                  |                    |              |                          |
| Semi Pucca                 | 873BDT/sft               | 1,048BDT/sft     | 960BDT/sft         | 960BDT/sft   | 970* BDT/sft             |
| Tin Made                   | 485BDT/sft               | 689BDT/sft       | 371BDT/sft         | 515BDT/sft   | 525* BDT/sft             |
| Katcha                     | 253BDT/sft               | 300BDT/sft       | 275BDT/sft         | 276BDT/sft   | 286* BDT/sft             |
| Thatched                   | 130BDT/sft               | 125BDT/sft       | 120BDT/sft         | 125BDT/sft   | 135* BDT/sft             |
| Other Structures           |                          |                  |                    |              |                          |
| Katcha Latrine             | 2,200BDT/No              | 2,500BDT/No      | 2,500BDT/No        | 2,400BDT/No  | 2,400BDT/No              |
| Slab Latrine               | 3,960BDT/No              | 3,055BDT/No      | 4,200BDT/No        | 3,738BDT/No  | 3,738BDT/No              |
| Pucca Latrine              | 20,300BDT/No             | 22,455BDT/No     | 19,750BDT/No       | 20,835BDT/No | 20,835BDT/No             |
| Tube-well                  | 16,778BDT/No             | 17,818BDT/No     | 18,000BDT/No       | 17,532BDT/No | 17,532BDT/No             |
| Boundary Wall (Tin made)   | 280BDT/ft                | N/A              | N/A                | 280BDT/ft    | 280BDT/ft                |
| Boundary Wall (Brick) 5"   | 948BDT/ft                | 531BDT/ft        | 500BDT/ft          | 660BDT/ft    | 660BDT/ft                |
| Removal cost of water Pump |                          |                  |                    |              | 5,000BDT/No              |
| Removal of Billboard       |                          |                  |                    |              | 200,000BDT/No            |
| Trees                      |                          |                  |                    |              |                          |
| Large Tree                 | 6,050BDT/No              | 6,020BDT/No      | N/A                | 6,035BDT/No  | 6,035BDT/No              |
| Medium Tree                | 4,065BDT/No              | 4,060BDT/No      | N/A                | 4,032BDT/No  | 4,032BDT/No              |
| Small Tree                 | 1520BDT/No               | 1,510BDT/No      | N/A                | 1,515BDT/No  | 1,5150BDT/No             |
| Plant                      | 110BDT/No                | 105BDT/No        | N/A                | 107BDT/No    | 107BDT/No                |
| Rental Fee                 | 1,000~3,000<br>BDT/Month |                  |                    |              | 2,500BDT/Month           |

<sup>\* :</sup>BDT10/sft of re-installation grant is added to the unit cost

### **5.4 Entitlement Matrix**

Types of loss due to implementation of the Project, eligibility and qualification of persons including entitlements are summarized in Table 5.2.

**Table 5.2 Entitlement Matrix** 

| Loss Item 1: LOSS OF PHYSICAL STRUCTURES RESIDENTIAL AND COMMERCIAL (WITHOUT TITLE TO LAND)   |   |  |   |
|---|---|--|---|
| <b>Entitled Persons</b>   | Entitlements  | Application Guidelines   | Additional Services   |
| Socially recognized owners (Squatters) of structures built on the ROW as identified by Census | <ol> <li>Replacement Value<sup>2</sup> (RV) for structure</li> <li>Transfer Grant @ BDT 7 (seven) per sft<sup>3</sup> of affected structure.</li> <li>Utility reconnection assistance @BDT2,000/household.</li> <li>Removal grant for billboards as lump sum @ BDT 200,000/ number</li> <li>Special Assistance of a one-time payment as recommended by PAVC for each vulnerable households (VHH) i.e. female-headed, disabled-headed, elderly-headed and hardcore poor household with an amount of BDT 10,000/VHH.</li> <li>BDT 12,000/- as one time grant in addition to other compensation for female headed including disabled/handicapped/widow member family.</li> <li>Skill Training for vulnerable households is provided by IA.</li> <li>Owner will be allowed to take all salvageable materials free of cost.</li> </ol> | <ol> <li>Applicable to all structures located on ROW at cut-off dates.</li> <li>PAVC will record structures and recommend the RV of structures.</li> <li>Compensation will be paid for the structures built by the RHD and employees of RHD.</li> <li>Transfer grant would be paid for only primary structure such as residential house (measured in sq ft).</li> <li>Hardcore poor is defined as the households which income level is lower than BDT 60,000/year<sup>4</sup></li> </ol> | 1. RAP Implementing Agency (IA) will assist the APs in finding alternative site for relocation. |

#### **Implementation Issues**

- 1. Entitled person will be identified through the Census survey to be conducted by IA and RHD at the detailed design stage.
- 2. RV of structure will be determined by PAVC
- 3. Compensation must be paid before EP dismantles and removes the structures as per civil works requirement by RHD through IA.

As determined based on the result of replacement cost survey conducted by study team and to be recommended by PAVC.
 Based on Padma Bridge Project (2010) financed by WB, ADB, JICA and IDB because of the proximity of the area and year the survey conducted, the value used for this project is considered to be applicable in due consideration of recent price level.
 Based on Southwest Area Integrated Water Resources Planning Management Project (2011) financed by ADB

| Entitled Persons  | Entitlements  | Application Guidelines  | Additional Services |
|---|---|---|---------------------|
| Socially recognized owners, as have contract documents with land owner, of trees and crops grown on public or other land, as identified by IA and verified by PAVC. | notice by the RHD to harvest the crops. If it is not near harvesting period, the expected yield | on land/pond within ROW at the time of dispossession.  2. If the tree is planted on the RHD land by taking lease, compensation for trees will be paid following the clause of the lease agreement signed between the parties <sup>5</sup> 3. RV of trees/crops/fish stock will be recommended by PAVC based on data | Nil                 |

<sup>&</sup>lt;sup>5</sup> Usually, the lease contract is made to pay half of the total sales (market price) to the land owner. Therefore, half price of planted trees is not required to be paid to tree owners. Rest half is not paid since the land owner is RHD

| <b>Entitled Persons</b>  | Entitlements   | Application Guidelines   | <b>Additional Services</b> |
|--|--|--|----------------------------|
| 1. Actual cultivators, without consent to land owner, as identified in census by IA and verified by PAVC during implementation of RAP. | <ol> <li>The crop owners will be issued 60 days prior notice by the RHD to harvest the crops. If it is not near harvesting period, the expected yield will be compensated at RV.</li> <li>In addition, grants for loss of access (right of cultivating) to cultivable land equivalent to the crop harvested in one harvested season, to be verified by PAVC.</li> <li>RV of fish stock, and trees as determined by PAVC</li> <li>Owners will be allowed to harvest crops and fish stock and fell the trees.</li> </ol> | on land/pond within ROW at the time of dispossession.  2. RV of trees/crops/fish stock will be recommended by PAVC based on data obtained from forest department/ district agriculture extension office/ district marketing office/fishery department respectively/market survey, etc. for those identified through joint on-site verification |                            |

| Loss Item 4: LOSS OF INCOME (BUSINESS OWNER, WAGE EARNERS AND RENT-OUT HOUSE OWNER)  |   |   |   |
|--|---|---|---|
| <b>Entitled Persons</b>  | Entitlements  | Application Guidelines  | Additional Services   |
| Entitled Persons  1. Small shop owner affected by displacement  2. Wage earners affected at business enterprises  3. Owner of rent house/rooms affected by the Project | <ol> <li>Grants for business loss and/or for loss of rental income with an amount equivalent to three months net income not exceeding BDT. 24,000<sup>6</sup>.         or</li> <li>Grant to cover temporary loss of regular wage income @ BDT 250<sup>7</sup> for 90 days and</li> <li>Special Assistance of a one-time payment as recommended by PAVC for each vulnerable households (VHH) i.e. female-headed, disabled-headed, elderly-headed and hardcore poor household with an amount of BDT 10,000/VHH.</li> <li>BDT. 12,000/- as one time grant in addition to other compensation for only female headed without elderly support disabled/ handicapped/widow member family.</li> </ol> | Application Guidelines  1 The need of vulnerable groups will be assessed by IA through the need assessment survey <sup>8</sup> in the detailed design stage  2 The owners of rented out premises will be entitled for business loss allowance for each unit of premises rented out to separate families or persons. | 1. EPs will be brought under income generation program based on need assessment survey result.  2. EPs will be preferentially employed in civil construction work.  3. EPs who lose structure will also be entitled for loss Item 1.  4. EPs who rent premises will also be entitled for loss Item 5. |
|  | <b>6</b> Skill training for vulnerable households is provided by trainer NGO  |   |   |

#### **Implementation Issues:**

- IA identifies EPs at census, PVAC verifies the compensation amount, and RHD, thorough IA, pays the compensation.
- Business losses have been assessed during inventory of losses. All categories of business will be paid equal amount as grant 2.

<sup>6</sup> As were estimated based on the maximum average daily income of BDT 250/day x 30 days x 3 months and is a little less than BDT 24,,000 as is a threshold value between poor and non poor

7 BDT 250 is likely the average of payment per day according to the socio-economic survey implemented.

8 Socio-economic survey made to meet demand and supply. To survey the demands of skills (what skill wanted) from enterprise owner and skills the affected people want to attain.

| <b>Entitled Persons</b>   | Entitlements   |    | <b>Application Guidelines</b>          |    | <b>Additional Services</b> |
|---------------------------|--|----|--|----|----------------------------|
| 1. Rentee (who borrows    | 1. Rental assistance for both residential & commercial                     | 1. | Each rentee of affected premises will  | 1. | EPs will be brought        |
| residential structure) as | tenants and renter as per the prevalent rate in the form of                |    | be entitled for shifting assistance.   |    | under income               |
| identified by Census and  | grant to cover maximum of 3 months rental but not                          | 2. | RHD employees erected structures by    |    | generation program.        |
| verified by PAVC          | exceeding BDT. 7,500 <sup>9</sup>  |    | their own will be compensated as RV    | 2. | IA assists finding new     |
| 2. Rentee (who borrows    | 2. Actual shifting assistance to be determined by PAVC, or                 |    | allowed taking away salvage materials. |    | rent-out house.            |
| structures) for his       | BDT 500 per member up to BDT 5,000 per tenant                              |    |  |    |                            |
| business identified by    | residential household  |    |  |    |                            |
| Census and verified by    | 3. If advance rental payment was already made by rentee to                 |    |  |    |                            |
| PAVC                      | renter, and renter would not reimburse the advanced                        |    |  |    |                            |
|                           | payment to rentee, then payment of allowance to                            |    |  |    |                            |
|                           | renter will be deducted from owners' resettlement                          |    |  |    |                            |
|                           | assistance package and paid back to the rentee up to the                   |    |  |    |                            |
|                           | ceiling (3 months' allowance) of owners entitlements                       |    |  |    |                            |
|                           | with GRC approval  |    |  |    |                            |
|                           | 4. Right to salvage materials from demolished structure erected by tenant. |    |  |    |                            |
|                           | 5. Special Assistance of a one-time payment as                             |    |  |    |                            |
|                           | recommended by PAVC for each vulnerable households                         |    |  |    |                            |
|                           | (VHH) i.e. female-headed, disabled-headed,                                 |    |  |    |                            |
|                           | elderly-headed and hardcore poor household with an                         |    |  |    |                            |
|                           | amount of BDT 10,000/VHH.  |    |  |    |                            |
|                           | 6. BDT. 12,000/- as one time grant in addition to other                    |    |  |    |                            |
|                           | compensation for only female headed without elderly                        |    |  |    |                            |
|                           | support disabled/ handicapped/widow member family.                         |    |  |    |                            |
|                           | 7. Skill training for vulnerable households is provided by                 |    |  |    |                            |
|                           | trainer NGO  |    |  |    |                            |

- IA identifies EPs at census, PVAC verifies the compensation amount, and RHD, thorough IA, pays the compensation.
- Payment shall be done before physical relocation of EPs.

<sup>&</sup>lt;sup>9</sup> Average rental fee per month is less than BDT 2,500 per month according to socio-economic survey

| Loss Item 6: UNFORESEEN ADVERSE IMPACTS (IF APPLICABLE) |  |   |                     |
|---|--|---|---------------------|
| Entitled Persons  | Entitlements                                     | Application Guidelines                    | Additional Services |
| Households or persons affected by any                   | Entitlements will be recommended as necessary by | The unforeseen impacts will be identified | As appropriate      |
| unforeseen impact identified during                     | GRC.   | through special survey by the PAVC as per |                     |
| implementation of the RAP                               |  | request from impacted population. The     |                     |
|   |  | entitlements will be approved by the      |                     |
|   |  | Ministry of Communication (MOC)           |                     |
| Implementation Issues:                                  |  |   |                     |

The unforeseen impacts and affected persons will be identified with due care as per policy of RAP and proposed to the MOC for approval including quantity of losses, their owners and the entitlements.

#### 5.5 Livelihood Restoration

Mitigation of loss of assets and livelihood is the main focus of the resettlement action plan. Additional measures will be taken to provide appropriate support to the livelihood restoration aspects of affected households (AHs) under the Livelihood and Income Restoration Program (LIRP). The IA will develop LIRP in close coordination with Resettlement Exert and RU during detailed design stage and incorporate in the updated RAP. According to the known impacts, AHs losing structure, will be paid compensation for their lost assets and be encouraged for self relocation. The squatters affected households, losing housing of business structure, business, income and other properties will be paid compensation/grants. The RAP includes the following categories of AHs for income restoration and livelihood support.

- i. Vulnerable households having Income level up to BDT 60,000<sup>10</sup> per year.
- ii. Vulnerable households having no adult male members to shoulder household responsibility (women headed households) without elderly children/ physically handicapped headed households etc. women heading the household will preferably be the eligible member.

For additional support to usual income restoration assistance as mentioned above, the RAP Implementing Agency will specifically undertake assessment of needs and skill base of vulnerable PAPs of age between 15 to 45 years. The IA will recommend the eligible members of affected vulnerable households with their relevant profile to the RHD for holding training on some income generating activities. The eligible members of the affected households will be preferentially employed in the project civil construction. The Project authority may keep provision (clause) in the contract document with the civil contractor. The short-term livelihood regeneration assistance under the RAP policy and long-term income generation program under the livelihood and income restoration program (LIRP) will be organized as follows:

**Table 5.3 Mitigation Measures for Vulnerable Households** 

| preferential employment in construction.<br>Long-term: Needs and capacity<br>identification, human development and<br>skill training under the LIRP. |
|--|
| Short-term: In addition to support as additional subsistence allowance.  Long-term: As 1.2 above.  |
| a  |

<sup>&</sup>lt;sup>10</sup> Income level up to 60,000/year has been categorized as vulnerable in Southwest Area Integrated Water Resources Planning and Management Project (2011) financed by ADB

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#### **CHAPTER 6. COMMUNITY PARTICIPATION**

The affected people and other stakeholders such as local Union Parishad Chairmen, Members, community leaders, local elites and affected persons at community level were consulted in the process of RAP preparation. Focused group discussions were held with different occupation groups among the affected people, especially businessmen, residential households, laborers, women, etc. in three bridge locations. The people actively participated in the discussion and gave opinion about resettlement relocation and environmental issues.

#### 6.1 Project Stakeholders

The primary stakeholders of the project include the residential structure owners, local business community and as well as other affected households. Other stakeholders include Roads and Highways Department (RHD), Department of Environment (DOE), Department of Fisheries (DoF), Inland Water Transport Authority (IWTA) District and Upazila administration in Narayanganj, Munshiganj and Comilla districts, Union Parishad and other government & non-government agencies working in the project influenced area.

There is no land acquisition in this project and that is why involvement of the Deputy Commissioner will be minimum. The other stakeholders include the business community such as contractors, sub-contractors and suppliers during the construction period. The local government representatives will also be benefited in gaining peoples support as a result of local development. The local NGOs working in the area will also find their wider scope for poverty reduction activities.

Table 6.1 Identified Project Stakeholders

|  | District and Upazila administration in Narayanganj districts                        |
|--|---|
| Governorates and                                     | District and Upazila administration in Munshiganj districts                         |
| Districts  | District and Upazila administration in Comilla districts                            |
|  | Union Parishad  |
|  | Department of Environment (DOE)   |
| Ministries   | Department of Fisheries (DoF)   |
|  | Inland Water Transport Authority (IWTA)   |
|  | Superintending Engineer, bridge   |
| RHD  | Social and Environmental Circle (SEC)   |
|  | Executive Engineer,, Local decision   |
| NCO's  | BRAC (Bangladesh Rural Advancement Committee)                                       |
| NGO's  DORP (Development Organization of Rural Poor) |   |
|  | Ph.D.Mr. S. M. A. Rashid, Chief Executive of CARZINAM, Center for Advanced Research |
|  | in Natural Resources Management,  |
| Academia   | Ph.D. Iqbal, Head of Environmental Science, the State University (No specialist was |
|  | available from IUCN)  |
|  | Ph.D. Hafiza khatun, Geograph and Environment, Dhaka University                     |
| International Agencies                               | Japan International Cooperation Agency  |

#### **6.2** Stakeholder Consultations

In the initial stage of the project, meeting with different levels officials such as University Teachers, Department of Environment (DOE) etc. was conducted, as expert consultation. Besides, the potential affected persons along with local government representatives (Union Parishad Chairmen and Members), community leaders and other stakeholders were consulted through community level consultation meetings and personal contract. The opinion of the different levels stakeholders regarding the project have been considered in preparation of this RAP.

### 6.2.1 Expert Consultation:

Opinions of environmental and social experts were collected through several times of expert consultation meetings and reflected into the RAP.

#### **Summary of Expert Consultations**

Date: 15 February 2012

Consulted experts: Ph.D. Hafiza khatun, Geograph and Environment, Dhaka University

| Comments   | Reflection of the Comments to the RAP  |  |  |
|--|--|--|--|
| Since informal residents, who are usually very poor, are displace by the project without compensation as per Bangladesh Rules, consideration has to be made. | provided:  |  |  |
| Information disclosure is very weak and please provide as much information to project affected people and stakeholders                                       | Stakeholders meeting, group discussion, door to door consultation (census and socioeconomic survey) were implemented   |  |  |
| Preference of affected for relocation shall be incorporated into RAP so far feasible   | Their request of financial assistance to restore living standard was incorporated to RAP   |  |  |
| Livelihood Impact  | Assistance to restoration of livelihood such as provision of transfer grant, preferential employment in construction, human development and skill training, and additional subsistence allowance to poor female headed families will be provided. Livelihood and Income Restoration Program (LIRP) will be prepared and these assistances will be fully incorporated based on the JICA guidelines. |  |  |
| Social issues needs to be addressed such as  | Conflicts among community peoples will be  |  |  |

conflict between migrated workers with local people, spread of communicable diseases such as skin, HIV/AIDS etc. due to migrant workers;

resolved through consultation meeting held by RAP Implementing Agency (IA). HIV-AIDS awareness campaign via approved service provider will be implemented. All these measures will be fully incorporated into Environmental Monitoring Plan (EMP)

### 6.2.2 Community Level Stakeholders Consultation

Table 6.2 Brief Overview of the 1st Consultation Meeting

| Dates  | 15 March, 2012  | _       |  |
|--|---|---------|--|
| Time   | 10:30 am  | 2:30 pm |  |
| Venue  | Shenpara, Kanchpur, Sonargaon, Narayangonj  Tetuitala Bazar, Meghnag Baliakandi, Gazaria, Munshiganj  |         |  |
| How accessible the venue was to the stakeholders | Meetings were held in the center of most probable settlements to be displaced by the project  |         |  |
| Method of notification                           | Invitation letters, advertisement on newspaper, mosque announcement and personal contact  |         |  |
| Method of consultation                           | Verbal explanation first in general by the host and individual question/ answer by the participants   |         |  |
| Language spoken                                  | Bengali   |         |  |
| Contents/agenda of the presentation              | The goals and objectives of the Project, relocation requirements, tentative timeline of the Project execution, roles and responsibilities of the stakeholders and the Project authorities, alternative design options, cut-off dates etc. were discussed in the meeting. The Social and Natural Environmental Engineers of the consultant team discussed the issues using flip chart and sought opinion of the participants on the Project needs, probable impacts and mitigation measures. |         |  |
| Used documents/materials for the explanation     | Flip-chart  |         |  |

**Table 6.3** Number of the Participants at the 1<sup>st</sup> Consultation Meeting

| Place                     | Kanchpur | Megna / Gumti |  |
|---------------------------|----------|---------------|--|
| Governmental Institutions | 6 (2)    | 6 (2)         |  |
| Local People              | 28 (0 )  | 10(0)         |  |
| NGOs                      | 0        | 0             |  |
| Media                     | 0        | 0             |  |
| Consultant/Study Team     | 6 (0)    | 6 (0)         |  |
| Total                     | 40(0)    | 22 (2 )       |  |

<sup>\* (</sup>Number of females) Females did not put signature on the attendants list although many were participated



### Explanation by RHD:

- > New land acquisition is not required for construction of the proposed bridges and for this overall impact on the community will be minimal
- > These proposed bridges will be constructed in RHD land acquired for the existing bridges
- Some residential households, commercial enterprises and common properties will require relocation due to the project
- ➤ A detailed socioeconomic survey and inventory of assets through structured questionnaires was conducted among the households within and surrounded the project area.
- ➤ The cut-off date for conducting this survey is
  - March 8, 2012 for Kanchpur Bridge
  - March 15, 2012 for Meghna Bridge and Gumti Bridge
- The residential households are to be relocated in new location due to the project
- Commercial enterprises would be relocated for continuing business
- They have to search alternative livelihood for the time being
- ➤ Wage labourers may lose their job for some days/weeks
- The vulnerable households/ women headed households may experience adverse impacts due to the project
- ➤ The commercial enterprises may be closed for some days/weeks
- ➤ Besides, some other adverse impacts/ challenges may be encountered during construction of the bridges and mitigation measures will be taken accordingly.
- Project authority ensured consideration of the alternative design options in Meghna Bridge location to avoid mass relocation at the same time they emphasized on the scarcity of government land and limitation of scopes for relocation. They told that compensation for lost assets will be paid based on best practices of other similar projects in Bangladesh.

# Summary of discussions:

# Meeting at Kanchpur Bridge Site

| SI | Position                                   | Sex    | Question/ opinion   | Responses /  |
|----|--|--------|---|--|
|    |  |        |   | reflection to RAP  |
| 1  | Chairman,<br>Kanchpur<br>Union<br>Parishad | Male   | The people living in the bridge adjacent area are mostly land less and vulnerable. They have been living in this place for 20-30 years. 'We, the local people want the new bridge parallel to existing one with immediate effect but these poor people should be relocated by the project'- the Chairman urged. Some small shop owners are also dealing in within the project area. They should be paid compensation and other assistance properly. | Even if for landless people, following compensations are provided:  - Structures and trees with replacement cost  - Transfer and reconstruction of structures  - Business restoration grant for 3 months (employer and employees)  - Moving assistance for rentee  - Grant for employees for loss of employment  - Transition allowance for 3 months  - Rental allowance for house/room renter  - Sifting allowance for residents  - Vulnerable allowance for poor and widowed  - Job training |
| 2  | Resident                                   | Male   | He is living in the project site for about 30 years. He has small piece of land in a distant place but that is not suitable for constructing house. They have a social network here and publicly known as citizen of this area. He has no way of relocation by own-self.  | Self-relocation is encouraged with<br>proper compensation as life level<br>would not deteriorated after<br>relocation  |
| 3  | Resident                                   | Female | She is living here for 25 years as tenant. She has no land for relocation even she has no structure to live in. She is widow and leading the family with one adult son who is taking household hold responsibility on his shoulder.   | Allowance for tenant and vulnerable allowance are provided in addition transit and shifting allowances   |
| 4  | Resident                                   | Male   | They are living here for about 25 years. His parents buried in the nearer graveyard. He has no alternative land for relocation. Wanted compensation and as well as relocation in government land by the project.  | Basically self relocation is encouraged. However, if the relocation site is required, local government can consider to provide alternative land on the char (sand bar) not far away from the site (as was not recorded in minutes of meetings) <sup>1</sup>  |
| 5  | Resident                                   | Male   | He needs compensation for the structure and relocation by the project.  | Same as above.   |
| 6  | Resident                                   | Male   | Also requested relocation in project sponsored relocation site  | Same as above.   |
| 7  | Member,<br>Kanchpur<br>Union<br>Parishad   |        | There are some land within RHD boundary where these people may be relocated. Government may think about khash land for their relocation. But this should be in the nearer place so that their means of livelihood will not be hampered  | Same as above.   |

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 $<sup>^{\</sup>rm 1}\,$  This was informed to participants on the meeting held at Kanchpur on  $1^{\rm st}\,August\,2012$ 

# Meeting at Meghna Bridge Site

| SI | Position | Sex  | Opinion  | Responses /   |
|----|----------|------|--|---|
| 51 | Tosition | Sex  | Оринон   | Responses / Reflection to the RAP   |
| 1  | Resident | Male | Most of the business enterprises are run by poor people. They have no alternative sources of income. Some wage laborers are engaged in business enterprises such as hotel, tea stall, etc. They will lose their job due to the project. Poor and vulnerable people are living on the RHD land beside the market. They have no alternative land for relocation. So, the project authority should think about relocation of the affected people instead of cash compensation.  | Special assistance for vulnerable people will be provided if they are identified as poor during census in addition to ordinary compensation.  |
| 2  | Resident | Male | They have been living on the RHD land as they have no alternative land for living. He urged relocation on Government land by the project instead of compensation money.  | Self relocation is encouraged   |
| 3  | Resident | Male | There is a mosque in the project area that may be affected by the project. People of this area are very poor and they will be unable to relocate in new location by themselves. Their livelihood is mostly attached with this market. He requested the project authority as well as RHD to arrange relocation site for the poor people and the market.   | Adequate compensation and assistance will be provided to the affected people so that living standard of the people can be at least maintained or even better. Nonetheless, the route will be selected to minimize relocation of affected people <sup>2</sup>  |
| 4  | Resident | Male | The GOB has acquired land in this area for two times. After that some people became landless and some of them are living in RHD land and within the proposed bridge alignment. As the JICA is financing the project so there is a guideline about the squatters and vulnerable people. All of the people living here are vulnerable and they have no scope of relocation. He urged to arrange relocation site in the RHD land. He told that RHD has huge land in this area and they may allocate a portion of the total land for cluster relocation of the household and market. | Land will not be provided to the affected people but adequate cash compensation fairly assessed by evaluation committee will be given. Other necessary assistance such as transfer grant and livelihood restoration program will be provided to the affected people to maintain living standard as present level or better. |
| 5  | Resident | Male | He requested the project authority not to leave<br>the affected people in worse off condition. He<br>demanded relocation of the affected people  | Resettlement plan will be established so that their livelihoods will be better off or maintained in the minimum.  |
| 6  | Resident | Male | The JICA is financing the project and hopefully there are some scopes of relocating the poor and vulnerable people. All of the people living here are vulnerable and They have no land for self relocation. The businessmen are dealing in here for long time. He urged relocation of the affected household and shops within RHD land   | Self relocation is promoted with sufficient compensation as prescribed.   |

<sup>&</sup>lt;sup>2</sup> Finally, the route which affects the present participants, alternative C, was cancelled and other route which does not affect these participants were chosen.

|    |          |        | in a safer position. He told that they need no cash compensation but need relocation by the project.  |  |
|----|----------|--------|---|--|
| 7  | Resident | Female | They have come here in 1988 after losing all assets in devastating flood in that year. She has no land and has only one adult son who is doing wage laboring to shoulder the household responsibility. She urged relocation in new site by the project. | Aged, widowed or poor households are supported as prescribed.                                    |
| 8  | Resident | Male   | He is living here for 25 years and earning livelihood by wage laboring. He wants relocation in project sponsored site.  | Self relocation is encouraged under<br>the compensation and assistances to<br>be proposed in RAP |
| 9  | Resident | Male   | He requested the project authority to shift bridge<br>alignment a little bit western side avoiding<br>settlement so that displacement of the market<br>and households may be minimized.   | Alignment was changed to other locations not affect the participants of the meetings             |
| 10 | Resident | Male   | He requested to use vacant land and avoid mass displacement of the household and shops.   | Alignment was changed to other locations not affect the participants of the meetings             |

Participants basically agreed for relocation brought about by the Project on the condition that sufficient compensation would be made to affected residents so that their living standard would not worsen compare with before relocation.

Summary of the second stakeholders' meetings

**Table 6.4** Brief Overview of the 2<sup>nd</sup> Consultation Meeting

| Table 6.1 Bile 6 verview of the 2 Consultation Meeting |  |   |  |  |
|--|--|---|--|--|
| Dates  | 1 August, 2012   |   |  |  |
| Time   | 2:30 pm  | 12:00 am  | 10:00 am   |  |
| Venue  | (Kanchpur Site)  | (Meghna Site)   | (Gumti Site)   |  |
|  | Shenpara, Kanchpur,<br>Sonargaon,<br>Narayangonj   | Tetuitala Bazar,<br>Meghnaghat,<br>Baliakandi, Gazaria,<br>Munshiganj | Chittagong end, Under<br>abattment, Daudkand,<br>Comilla |  |
| How accessible the venue was to the stakeholders       | Meetings were held in the center of most probable settlements to be displaced by the project   |   |  |  |
| Method of notification                                 | Invitation letters, adver personal contact   | tisement on newspaper, mos  | sque announcement and                                    |  |
| Method of consultation                                 | Verbal explanation first in general by the host and individual question/<br>answer by the participants   |   |  |  |
| Language spoken  | Bengali  |   |  |  |
| Contents/agenda of the presentation                    | In the consultation meeting the RAP and EIA policy (mitigation measures of the project impacts) were disclosed to the affected people using flip chart.  The affected people were informed about the meeting through publishing in |   |  |  |

|  | the newspaper, personal contact from Union leaders verbally, announcement in the mosque, etc. The issues disclosed in the meeting were project components and revised alignment by which some people who were registered by previous census as affected people, become as not affected, cut off-date declared during the survey (informed as finally revised to 16 <sup>th</sup> March from 08 <sup>th</sup> March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, Grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting. |
|--|---|
| Used documents/materials for the explanation | Flip-chart  |

## Table 6.5 Number of the Participants at the 2st Consultation Meeting

| Place                     | Kanchpur  | Megna  | Gumti  |
|---------------------------|-----------|--------|--------|
| Governmental Institutions | 3(1)      | 3 (1)  | 3(1)   |
| Local People              | 71(25)    | 18(0)  | 30 (0) |
| NGOs                      | 0         | 0      | 0      |
| Media                     | 0         | 0      | 0      |
| Consultant/Study Team     | 2(0)      | 2 (0)  | 2(0)   |
| Total                     | 76 ( 26 ) | 23 (1) | 35 (1) |

<sup>\* (</sup>Number of females)

#### Explanation by RHD/Study team:

- a. The new bridge will be constructed parallel to the existing bridge within 30 meter to the downstream.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- c. Cut-off date of the census survey was 08 March 2012. It was declared in the first stage consultation meeting
- d. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii. Grants for wage earners
  - ix. Training on income generating activities for eligible members of vulnerable HHs
  - x. Owners will be allowed to take all salvaged materials free of cost
  - xi. Eligible affected persons will be preferentially employed in civil construction
- g. Grievance redress mechanism and right to submit grievances to the Grievance Redress Committee
- h. Compensation payment procedure and role of PAPs, IA and RHD in making payment Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4

categories that will be faced during preconstruction, construction and operation stage:

- Social Environment
- Natural Environment
- Ecological Environment
- Environmental Pollution

Landscape

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on natural and ecological environment and environmental pollution.

| mpacts on natural and ecological environment                          | ent and environmental pollution.  |
|---|---|
| <b>Environmental Impact/Issue</b>                                     | Mitigation Measures   |
| <ul><li>Cultural Heritage</li><li>Accident</li></ul>                  | <ul> <li>No mitigation measures are required</li> <li>Follow BRTA rules and Regulations</li> <li>Preparation of Health and Safety Management         Plan (HSMP) including prevention of traffic accidents     </li> </ul>  |
| <ul><li>River Erosion and Siltation</li><li>River Transport</li></ul> | <ul> <li>Construction of sheet pile steel pipe foundation to encounter scouring</li> <li>Follow BIWTA navigation rules and regulations</li> <li>River Traffic control and ensure lighting device</li> </ul>   |
| <ul><li>Hydrology</li><li>Biota and ecosystem</li></ul>               | <ul> <li>Not required</li> <li>Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils</li> <li>Plantation of 3 times of trees to be cut; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines</li> </ul> |
| <ul><li>Global Warming</li><li>Air Pollution</li></ul>                | <ul> <li>No mitigation measures are required</li> <li>Implement dust suppress plan and routine mitigation measure shall be taken to emitting equipments during construction</li> </ul>  |
| • Surface and Ground Water Pollution                                  | <ul> <li>Increase retention time of the outflow hydraulic fills to increase sedimentation, thus, reduce sediment load to the river</li> <li>Removal of Arsenic from newly constructed Wells</li> </ul>  |
| <ul><li>Soil pollution</li><li>Waste</li></ul>                        | <ul> <li>Oil storage shall be with concrete floor and oil fence</li> <li>Contractor will be required to facilitate proper reuse and disposal plan, and manage the construction waste</li> <li>Dumping of waste at approved dumping sites</li> </ul>   |
| Noise and Vibrations  | <ul> <li>Enforce noise emission standards</li> <li>Regulate the construction process</li> <li>Install barrier if required</li> </ul>  |
| <ul> <li>Ground Subsidence</li> </ul>                                 | No action required  |
| Offensive Odor  | Proper treatment of camp waste and proper maintenance of heavy equipment etc  |
| <ul> <li>Bottom sediment</li> </ul>                                   | Treatment of liquid waste before discharged   |

After disclosing the policy of the RAP and EIA the participants were requested to put comments or question on the project policy. The affected people raised some questions about the policy and impact mitigation measures. All of the questions were on resettlement and compensation issues. There were no questions raised on the environmental issues.

Vegetation of the slope surface of embankment

It shall be noted that most of the affected residents agreed with monetary compensation (self relocation)

# Meeting at Kanchpur Bridge Site

| Position        | Sex    | Comment/Question   | Answer and Policy of Countermeasure  |
|-----------------|--------|--|--|
| Shop<br>keeper  | Male   | Sand stock yard beside the bridge<br>at Chittagong end where some<br>laborers are working to load and<br>unload the trucks. Whether they<br>will get compensation/grants or<br>not | The work of sand downloading from barge, tentatively stockpiling on land and uploading to truck is never affected by the project since there is huge open space around the site. The sand businessmen will be given at least 6 months prior notice by the RHD not to stock the sand within the 30 meter area from the existing bridge. Shifting of sand stock yard and move the laborers to the new stock yard is possible at no cost. Hence, no negative impacts are identified to sand stock yard laborers.  |
| Housewife       | Female | Housing structure affected and enumerated. Urged about relocation site if possible as she has no alternative place of relocation.  | The Executive Engineer (RHD): The Project will be started probably in early 2014 and you have at least 18 months time in hand to be relocated. All of the affected households should think about alternative relocation site.  From the Project compensation for all of the affected properties will be paid that will be sufficient for self relocation.  Union Parishad announced in the meeting that they will prepare a list of the landless people to the Deputy Commissioner's office (Narayanganj) according to the requirements of the GOB for relocation in new site under GOB rule. Those who receive cash compensation form RHD may avail such land with adequate cost. The site prepared by local government can be on the Char (sand bar) near to the site. |
| Housewife       | Female | They have no alternative land for relocation. If there is any opportunity to allocate land to them for relocation, that will be helpful to them.                                   | Same answer was given to her describing the land scarcity and entitlements of the resettlement plan as presented in the meeting  |
| House<br>renter | Male   | His hotel is affected where some laborers are working. He wants adequate compensation for business and laborers. If possible require relocation site for continuing hotel business | The hotel has been covered under inventory of assets. All of the wage laborers have been enlisted during survey. Household number has been pasted on the wall of structure and video filming has been done. Compensation will be paid according to the policy of the RAP.  He is encouraged for self relocation in anywhere after getting compensation as there is no scope of relocation by the Project.  |

### Meghna Bridge Site

|          | 0    |   |  |
|----------|------|---|--|
| Position | Sex  | Comment/Question                          | Answer and Policy of Countermeasure                  |
| Shop     | Male | His business structure is affected by the | The census survey and inventory of asset survey      |
| keeper   |      | project. During survey (March 2012)       | was started on March 15 2012 and that date was       |
|          |      | his structure was made of CI sheet but    | declared as the cut-off date. After the established  |
|          |      | after that he changed category of         | cut-off date no changes in quality of quantity of    |
|          |      | structure and now it is Semi pucca        | structure will be entertained. So, he will basically |
|          |      | (brick and wall with CI sheet roof).      | get compensation for the category which was          |
|          |      | Will he get compensation for changed      | recorded during census and asset inventory.          |
|          |      | category of structure?                    | However at the time of detailed design, formal       |
|          |      |   | census by RHD and NGO will be implemented            |
|          |      |   | and the compensation prices are updated based on     |

|                               |      |   | the evaluation by Price Assessment and Valuation<br>Committee (PVAC)  |
|-------------------------------|------|---|---|
| Chairman,<br>Baluakandi<br>UP | Male | The policy so far described is well and the people will not be worse off if it is properly implemented. He thanked to the RHD and especially JICA for introducing this policy for poor businessmen. He urged to make payment without hassle so that the affected people will not face any trouble. He ensures extending all sorts | It was ensured that the affected people will be paid compensation/resettlement benefits without hassle and cheques will be handed over at site in presence of the local chairmen or members. It was also informed that the affected people would be ready to vacate the project site within 30 days from the date of payment of compensation. |
|                               |      | of cooperation to the project authority from his end.   |   |

Gumti Bridge Site

| Gumti Bridge Site |      |  |  |  |
|-------------------|------|--|--|--|
| Position          | Sex  | Comment/Question   | Answer and Policy of Countermeasure  |  |
| Shop<br>keeper    | Male | Compensation package so far disclosed for the affected people is enough but it would be ensured that this amount would be directly paid to the entitled persons. If it is paid through any intermediary persons, the affected persons will not get full amount | The compensation amount will be paid to the entitled persons through account payee cheque at their door step issuing prior notice regarding date venue and time of handing over cheques.  There will be no middle man to help them rather the RHD will engage one NGO or consulting firm as RAP implementing Agency to assist RHD and as well as the affected people in compensation payment procedure.  |  |
| Shop<br>keeper    | Male | How many months will require to start civil construction of the Project? How many times we may continue business at present location? How is the size and outlook of the proposed bridge.  | The Project is scheduled to be started in early 2014 and you have at least 18 months time in hand to vacate the project site. Before construction is started every one will have to leave the place and encumbrance free land will be handed over to the contractor.  The length of the proposed bridge is 1410 meter and width is 17.45 meter. This will be constructed a very closed to the existing one and distance between these two bridges will be less than one meter. |  |
| Shop<br>keeper    | Male | The local people especially the affected people should get opportunity to work in civil construction. Is there any provision in the project to engage affected people in civil construction?   | According to the policy of the Resettlement Action Plan, the affected people will be preferentially employed in civil construction where possible.  During implementation of the Project labor contracting society will be formed to bargain collectively for seeking job and getting salary while they are in job.  |  |

Table 6.6 Brief Overview of the 3<sup>rd</sup> Consultation Meeting

| Dates 1 September, 2012                          |  |   |                                      |
|--|--|---|--------------------------------------|
| Time   | 2:30 pm  | 12:00 am  | 10:00 am                             |
| Venue  | (Kanchpur Site)  | (Meghna Site)   | (Gumti Site)                         |
|  | Shenpara, Kanchpur,<br>Sonargaon,<br>Narayangonj   | Chittagong end,<br>Baliakandi, Gazaria,<br>Munshiganj | Chittagong end,<br>Daudkand, Comilla |
| How accessible the venue was to the stakeholders | Meetings were held in t<br>displaced by the project  | the center of most probable                           | settlements to be                    |
| Method of notification                           | Invitation letters, advert   | tisement on newspaper, mos                            | sque announcement and                |
| Method of consultation                           | Verbal explanation first in general by the host and individual question/ answer by the participants  |   |                                      |
| Language spoken                                  | Bengali  |   |                                      |
| Contents/agenda of the presentation              | In the consultation meeting, policies of the RAP and EIA (mitigation measures of the project impacts) were disclosed to the affected people using flip chart. On August 01, 2012, these policies were disclosed, but due to JICA requirements and some changes in the policy, disclosure of the policy requires again.  The affected people were informed about the meeting through publishing in the national daily newspaper (Both Bengali and English daily), personal contact, announcement in the mosque, etc. The disclosed issues in the meeting were project components and alignment, cut off-date declared during the survey (16 March 2012), methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc.  The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting. |   |                                      |
| Used documents/materials for the explanation     | Flip-chart   |   |                                      |

Table 6.7 Number of the Participants at the 3<sup>rd</sup> Consultation Meeting

| Tuble off I (u.           | Tuble of Trumber of the Full deputies at the Compartment in the ting |           |         |  |  |
|---------------------------|--|-----------|---------|--|--|
| Place                     | Kanchpur   | Megna     | Gumti   |  |  |
| Governmental Institutions | 1(0)   | 1 (0)     | 1(0)    |  |  |
| Local People              | 72(40)   | 79 (61 )  | 56 (28) |  |  |
| NGOs                      | 0  | 0         | 0       |  |  |
| Media                     | 0  | 0         | 0       |  |  |
| Consultant/Study Team     | 5(0)   | 5 (0)     | 5(0)    |  |  |
| Total                     | 78 ( 40 )  | 85 ( 61 ) | 62 (28) |  |  |

<sup>\* (</sup>Number of females)

#### Explanation by RHD/Study team:

- a. The new bridge will be constructed parallel to the existing bridge within 30 meter to the downstream.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- c. Cut-off date of the census survey was 16 March, 2012.
- d. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows:
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii. Grants for wage earners
  - ix. RHD employees will be eligible for compensation and other assistances for the structures erected by themselves
  - x. Training on income generating activities for eligible members of vulnerable HHs
  - xi. Owners will be allowed to take all salvaged materials free of cost
  - xii. Eligible affected persons will be preferentially employed in civil construction
- g. Grievance redress mechanism and right to submit grievances to the Grievance Redress Committee
- i. Compensation payment procedure and role of PAPs, IA and RHD in making payment

Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stages of the project:

- 1. Social Environment
- 2. Natural Environment
- 3. Ecological Environment
- 4. Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on the following natural and ecological environment and environmental pollution and mitigation measures.

#### Environmental Impact/Issue Mitigation Measures

| ] | . Cultural Heritage                 | No mitigation measures are required  |
|---|-------------------------------------|--|
| 2 | 2. Accident                         | - Follow BRTA rules and Regulations  |
|   |                                     | - Preparation of Health and Safety Management  |
|   |                                     | Plan (HSMP) including prevention of traffic accidents  |
| 3 | <ol><li>River Erosion and</li></ol> | - Construction of sheet pile steel pipe foundation to encounter scouring   |
|   | Siltation                           |  |
| 2 | l. River Transport                  | - Follow BIWTA navigation rules and regulations  |
|   |                                     | - River Traffic control and ensure lighting device   |
| 4 | 5. Hydrology                        | - Not required   |
| Ć | 5. Biota and ecosystem              | - Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils  |
|   |                                     | - Plantation of 3 times of trees to be cut; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines |
| 7 | 7. Global Warming                   | - No mitigation measures are required  |
| 8 | 3. Air Pollution                    | - Implement dust suppress plan and routine mitigation measure shall be taken to  |

| 9. Surface and Ground<br>Water Pollution | <ul> <li>emitting equipments during construction</li> <li>Increase retention time of the outflow hydraulic fills to increase sedimentation, thus, reduce sediment load to the river</li> <li>Removal of Arsenic from newly constructed Wells</li> </ul> |  |
|--|---|--|
| 10. Soil pollution                       | - Oil storage shall be with concrete floor and oil fence  |  |
| 11. Waste                                | Contractor will be required to facilitate proper reuse and disposal plan, and manage the construction waste   |  |
|  | - Dumping of waste at approved dumping sites  |  |
| 12. Noise and Vibrations                 | - Enforce noise emission standards  |  |
|  | - Regulate the construction process   |  |
|  | - Install barrier if required   |  |
| 13. Ground Subsidence                    | - No action required  |  |
| 14. Offensive Odor                       | - Proper treatment of camp waste and proper maintenance of heavy equipment etc  |  |
| 15. Bottom sediment                      | - Treatment of liquid waste before discharged   |  |
| 16. Landscape                            | - Vegetation of the slope surface of embankment   |  |
|  |   |  |

After disclosing the policy of the RAP and EIA the participants were requested to put comments or question on the project policy. The affected people raised some questions about the policy and impact mitigation measures. All of the questions were on resettlement and compensation issues. There were no questions raised on the environmental issues

It shall be noted that all of the affected residents agreed with monetary compensation (self relocation)

### Meeting at Kanchpur Bridge Site

| Position    | Sex    | Comment/Question  | Answer and Policy of Countermeasure   |
|-------------|--------|---|---|
| Housewife   | Female | One tube well is affected along with housing structures. Whether the tube well was counted or not. How compensation will be paid for tube well  | All of the structures including tube wells, toilets and other secondary structures have been enlisted during inventory of losses (IOL). Compensation has been determined based on current cost of the tube wells and other structures. The unit rate has been collected from businessmen and other knowledgeable people of the locality. So, compensation for all affected structures will be paid at a time during implementation of the project.  |
| Businessman | Male   | There are some sand business enterprises beside the bridge. Some laborers are working for loading sand on the truck and unloading it from the barge. Whether they are entitled for compensation or not. | This issue was discussed in last disclosure meeting held on August 01, 2012. There are no structures of the sand businessmen in the bridge location. And we have at least 15 months time to start civil works of the bridge. The sand businessmen will be officially noticed few months ahead of starting construction not to stake sand within required area of the proposed bridge. So, income and livelihood of the businessmen and wage laborers will not be disturbed and this is why they will not be eligible for compensation/assistance. |

| Squatter | Female | They have some fruit bearing and timber type trees (Mango, Rain tree) beside their houses. Whether they | All of the within the proposed area have been counted and as per policy of the RAP trees owners will be paid compensation |
|----------|--------|---|---|
|          |        | will get compensation for these trees or not.   |   |
| Squatter | Male   | His residential premises are affected   | Compensation will be paid at the door steps of  |
|          |        | by the project and he demanded  | the affected people. A property assessment and  |
|          |        | adequate compensation for them.   | valuation committee will be responsible to  |
|          |        | Compensation is to be paid directly   | determine the unit price of the affected  |
|          |        | to the entitled persons but not via the   | properties. Only entitled persons will be paid  |
|          |        | local government representatives or   | compensation/assistance through account payee   |
|          |        | any one.  | cheques.  |

# Meghna Bridge Site

| Position    | Sex    | Comment/Question                      | Answer and Policy of Countermeasure                 |
|-------------|--------|---------------------------------------|---|
| Businessman | Male   | My business is affected by the        | The compensation will be paid as per policy of      |
|             |        | approach road. How many times we      | the RAP before displacement from the project        |
|             |        | will get from now to dismantle        | site. During survey all of the affected structures  |
|             |        | structures? What is the expected      | have been counted and accordingly budget has        |
|             |        | time of starting construction work    | been prepared. At least 15 months will is on hand   |
|             |        |                                       | to dismantle structures. Because, expected time     |
|             |        |                                       | of starting the construction is early 2014.         |
| Businessman | Male   | We need compensation on time and      | Compensation will be paid in cheques (account       |
|             |        | without hassle. Sufficient time is    | payee) at the door steps of the affected people.    |
|             |        | required after getting compensation   | The EPs will be allowed for at least 30 days        |
|             |        |                                       | times to stay in the present location after         |
|             |        |                                       | payment of compensation.                            |
| Squatter    | Female | We are very poor and have a little    | During construction of the bridge local people      |
|             |        | scope of income. I have adult son but | will be deployed (based on eligibility) on priority |
|             |        | jobless. Is there any provision of    | basis in civil construction on.                     |
|             |        | getting work in the project.          |   |

Gumti Bridge Site

| Position  | Sex    | Comment/Question                       | Answer and Policy of Countermeasure            |
|-----------|--------|--|--|
|           |        | `                                      | 3  |
| Housewife | Female | Living on Government land for last 15  | Compensation will be paid for structures only  |
|           |        | years. We did sand filling and         | but not for land as because the land is owned  |
|           |        | constructed housing structure. We have | by RHD.  |
|           |        | no sufficient income.                  | Compensation will be paid as per policy of the |
|           |        | We need adequate compensation and      | RAP.   |
|           |        | job opportunity for our male members   | Compensation for structure, transfer and       |
|           |        | in civil construction.                 | re-installation grants and other assistance as |
|           |        |  | per policy will be pad that will make the      |
|           |        |  | affected persons well off.                     |
|           |        |  | The affected people will be preferentially     |
|           |        |  | deployed in civil construction based on        |
|           |        |  | eligibility.                                   |
| Housewife | Female | They have only one source of income    | Compensation for the structures and as well as |
|           |        | (shop at Gumti ghat) is getting        | business will be paid. They have more than 1   |
|           |        | affected. They have bank loan and have | year time in hand to relocate. Adequate        |
|           |        | to pay by monthly installment.         | compensation will be paid for the affected     |
|           |        | Demanded adequate compensation in      | properties at the door steps of the affected   |
|           |        | time.                                  | people.  |
|           |        |  |  |

| Businessman | Male   | The local people especially the affected people should get opportunity to work in civil construction of the project.               | According to the policy of the Resettlement<br>Action Plan, the affected people will be<br>preferentially employed in civil construction<br>as per eligibility of the APs  |
|-------------|--------|--|--|
| Housewife   | Female | As per discussion the project will arrange training on income generating activities. Will our family members get that opportunity. | During implementation of the RAP, the vulnerable Aps will be brought under income and livelihood restoration program and arranged training on income generating activities. One member of each affected households will be selected based on need assessment survey. |

### **6.2.3** Focused Group Discussion

Discussions were held with the affected communities and businesses at Kanchpur, Siddhirganj Municipality of Siddhirganj, Narayangnaj (Dhaka end), at Chittagong end of the Kanchpur Bridge under Sonargaon Thana of Narayanganj district, at Meghna Bridge Dhaka end Sonargaon, Narayanganj, Jamaldi Bazaar Bus stand (Meghna Bridge, Ctg. end), Baliakandi, Gazaria, Munshiganj, at Bausia near Pakhir Mour, Gazaria, Munshiganj and at new Ferry ghat, Daudkandi, Comilla of Gumti (Chittagong end). 7 (seven) focused group meetings were held in three bridge locations. Date, location and the number of participants of each discussion is listed in Table 7.6

**Table 6.8** Details of FGD Meetings

| Sl. | Date     | Location of the meeting   | <b>Participants</b> | Category of participants  |
|-----|----------|---|---------------------|---|
| 1   | 23.03.12 | Kanchpur Bridge, (Dhaka end, near<br>abutment of the existing bridge)<br>Shimrail, Siddhirganj, Narayanganj | 21                  | Shop owners, truck drivers and helpers, laborers, women businessmen, barge operators, etc   |
| 2   | 17.04.12 | Kanchpur Bridge (Dhaka end),<br>beside the abutment, Simrail,<br>Siddhirganj, Narayanganj                   | 20                  | Shop owners (both squatters and tenants),<br>truck drivers and helpers, laborers, women<br>businessmen, barge operators, etc                  |
| 3   | 17.04.12 | Kanchpur Bridge, (Chittagong end),<br>Kanchpur union, Sonargaon,<br>Narayanganj                             | 21                  | Residential household heads, tenants, Shop<br>owners (squatters and tenants), truck<br>drivers and helpers, laborers, barge<br>operators, etc |
| 4   | 17.04.12 | Gumti Bridge, (Chittagong end),<br>Daudkandi Municipality Comilla   | 19                  | Residential household heads, Shop owners (squatters and tenants), truck drivers and helpers, laborers, barge operators, etc                   |
| 5   | 17.04.12 | Gumti Bridge, (Dhaka end), near<br>Pakhir Morh, Baushia, Gajaria<br>Upazila of Munshigan district           | 8                   | Coal businessmen, Shop owners (squatters), truck drivers and helpers, laborers, barge operators, etc  |
| 6   | 23.03.12 | Meghna Bridge, (Dhaka end),<br>Pirojpur union, Sonargaon,<br>Narayangonj                                    | 19                  | Shop owners (squatters and tenants), laborers, etc.   |
| 7   | 17.04.12 | Meghna Bridge (Chittagong end),<br>Jamaldi Bazaar Bus stand,<br>Baliakandi, Gazaria, Munshigonj             | 19                  | Shop owners (squatters and tenants), truck<br>drivers and helpers, laborers, barge<br>operators, etc  |
|     |          | Total   | 127                 |   |

The local people attended the focused group discussion meeting include truck drivers, sand and stone carrying laborers of ships and trucks, tea stall operators, grocery shop keepers, handicraft artisans, hotel managers and waiters, etc. Local NGO officers were also present in the meeting to know about the project so that they can plan about allocating loan for the potential displaced persons.

#### Explanation by RHD

In the focused group meeting the affected people were informed about the goals and objectives of the project, relocation requirements, compensation payment procedure and probable package of compensation. It was discussed that the physical work of the project may start in early 2014 and within this intermediary 2 years time they would search alternative sites for relocation.

#### Details are as follows:

- ➤ The cut-off date as declared in consultation meetings i.e. 8 March for Kanchpur Bridge and 15 March for Meghna and Gumti Bridges. No changes in number and quantity of the structure and other properties will be entertained
- As per JICA Environmental and Social considerations, in spite of lack of legal rights to the land all of the affected households/people would be paid compensation for structure including shifting allowance and reconstruction grants.
- > Business operators including tenants would be paid grants for income and livelihood restorations
- > Residential households including tenants would be paid one time grants for relocation of structures/households
- ➤ Wage labourers would be paid livelihood restoration grants
- ➤ Vulnerable households (women headed without elderly support, income level under below poverty line, physically handicapped, etc.) would be paid additional grants
- > Compensation and resettlement assistance for lost assets and livelihood will be paid through account payee cheques at the door steps of the entitled persons
- > Everyone should open bank account for receiving cheques.
- Each of the affected person will get an ID card
- > The affected persons will be preferentially employed in project civil work based on eligibility
- A Non-governmental Organization/Agency would be deployed by the RHD to assist the affected people in getting compensation and facilitating during relocation.
- ➤ A detailed socioeconomic survey and inventory of assets have been conducted for preparation of a household profile and assessing the quantity of affected assets.
- According to the survey result and project scenario, an entitlement policy matrix would be prepared based on World Bank guide line and best practices.
- ➤ The locally active NGOs are advised to plan for giving loan to the potential affected people considering probable project schedule and relocation requirements due to the project.

- ➤ Besides, some other adverse impacts/challenges may be encountered during construction of the bridge but those will be mitigated in a transparent manner
- > Concern over traffic safety such as pedestrian crossing as well as signage will be recommended.

**Table 6.9 Summary of Focussed Group Meeting** 

| Issues Disaussed Doutisinent's Oninian Comments and Degrangs to Oractional Action Doint |   |   |  |
|---|---|---|--|
| Issues Discussed  | Participant's Opinion , Comments and Suggestions  | Response to Questions/Action Point  |  |
| General perception about the project and the awareness about the proposed project.      | Most of the participants are in favor of the project and have been made aware of the proposed project through the various surveys that have taken place   | Acceptance of the project   |  |
| Support of local people for the proposed project?                                       | Almost everybody said that they will support the project and advised the Consultants to take precautions in the environmental mitigation to avoid the various impacts anticipated during the preconstruction, construction and operation stages of the project and to ensure protection of the natural water bodies of the areas. | The Consultants informed that during the study, the design and layout of all infrastructures have been considered the anticipated adverse impacts. EMP covers specific measures to follow during the construction process in protecting natural water bodies  |  |
| Land Acquisition and Resettlement   | Land acquisition and resettlement will be the major issue. According to the participants, this can be mitigated through proper compensation and assistance to the affected persons  | New land acquisition is not required for construction of the proposed bridges. As a result, overall impact on the community will be minimized.  These bridges will be constructed in RHD land which was acquired for the existing bridges.  Some residential houses, commercial enterprises and common properties are found within the proposed area those are required to be relocated before starting civil construction.  As per JICA Environmental and Social considerations, in spite of lack of legal rights to the land all of the affected households/people would be paid compensation for structure including shifting allowance and reconstruction grants. |  |
| Employment Status: Percentage of employment/unemplo yment/underemploym ent              | Unemployment is common in the project area  | Employment opportunities for construction workers will increase if the construction will start.   |  |

| Issues Discussed   | Participant's Opinion , Comments and   | Response to Questions/Action Point  |
|--|--|---|
|  | Suggestions  |   |
| Impact of the project<br>on the aquatic<br>environment   | The livelihood of the fishermen community should be taken into consideration   | Exact Impact on aquatic environment to be assessed during detail design.  As a conclusion of impact prediction, fishery is not affected and aquatic diversity remains same since water quality or hydrological condition is not affected (or worsen) by the project. By scouring, river bottom around piers may be deepen and this may increase/ strengthen the diversity of ecosystem. |
| If this bridges are improved, there may be large groups of workers living temporarily in the area, and construction operations that generate noise and dust. Are there any other issues about construction, including noise and dust that might worry you? | The respondents strongly welcome the bridge construction activities. Many observed that the measures are temporary and besides there will be more chances for local communities to be employed during construction, providing both skilled and unskilled labor. Participants did not mention any other problems which might bother them other then following basic safety rules. | Residents understand that construction impacts can be expected and do not have an issue with these, provided safety measures are taken.   |

Issues Discussed Participant's Opinion , Comments and Suggestions

Response to Questions/Action Point





Focused group meeting at Kanchpur Bridge (Dhaka end), beside the abutment, Siddhirganj





Meeting at Kanchpur Bridge, Chittagong end, Senpara, Sonargaon, Narayanganj

#### CHAPTER 7. GRIEVANCE PROCEDURE

#### 7.1 Objectives of Grievance Redress Committee

In order to provide an accessible mechanism to APs to raise their issues and grievances as well as raise concerns about their assistance, Grievance Redress Committees (GRCs) will be established in the project in Union Parishad/Ward. The GRCs are officially recognized "non-judicial" community-based body that will seek to resolve non-judicial disputes arising out of various matters related to the implementation of the RAP. The fundamental objectives of GRCs are to resolve any resettlement-related grievances locally in consultation with the aggrieved party to facilitate smooth implementation of the social and environmental action plans. Another important objective is to democratize the development process at the local level and to establish accountability to the affected people.

#### 7.2 Composition of the GRCs

GRCs will be formed at Union/Word level for any grievances involving resettlement benefits, relocation, and other assistance. A gazette notification on the formation and scope of the GRCs will be required from the MOC. The GRC for each Ward/Union will be comprised as follows;

- 1. Executive Engineer, RHD Convener
- 2. Resettlement Expert (RE) of Design and Construction Supervision Consultant (DCSC)-Member
- 3. Field Coordinator, Implementing Agency- Member Secretary
- 4. Union Parshad Chairman/ Word Councilor- Member
- 5. One representative of APs Member (Female member in case of female aggrieved person)

At least 3 persons will need to fill the quorum of the GRC meeting.

The GRCs will be activated with power to resolve resettlement, compensation and environmental issues not to be addressed under legal suit in the courts. The GRCs will receive grievance cases from the affected persons through the Implementing Agency (IA). The IA will assist the APs in lodging their complaints in a proper format acceptable to the GRCs after they get ID cards from RHD or informed about their entitlements and losses.

### 7.3 Appeal Procedure and Conflict Resolution

APs will be able to file their grievances without any fear and intimidation with no cost to APs. Where required, the IA will assist the APs in drafting the grievances. All grievances must be

submitted in writing to the Convener, GRC. Illiterate APs can file complaints in verbal form and IA shall assist the APs by writing down their complains into written format. The complainant may be represented by the AP him/herself or appointed agent. The judgment made by GRC will be communicated to the concerned AP in writing. If dissatisfied, and with the agreement of the GRC, the AP may request a further review of the judgment of GRC by the Project Director.

GRC procedures and operational rules will be publicized widely through community meetings and pamphlets in the local language (Bengal) so that APs are aware of their rights and obligations, and procedure of grievance redress. Illiterate APs will be also properly informed through community dialogue during census survey.

The appeal procedure and conflict resolution is described in Table 7.1 and schematically shown in Figure 7.1.

**Table 7.1 Steps for Grievance Redress** 

| Step 1 | The Implementing Agency (IA) informs APs about their losses and entitlements   |
|--------|--|
|        | If satisfied, the AP claims resettlement payments to the EA. If confused, proceed to Step 2  |
| Step 2 | The AP approaches the IA field level officials for clarification. The IA will clarify the APs about their losses & entitlements as per RAP policy.   |
|        | If resolved, the AP claims resettlement payments to the EA.  |
|        | If not resolved, proceed to Step 3   |
| Step 3 | The AP approaches to the GRC. IA staff assists the APs producing the complaints and organize hearing within 21 days of receiving the complaints. Both written complaints in local dialect or verbal complaints are acceptable. IA shall assist the APs to prepare written form for succeeding procedures at no cost to APs. Then proceed to Step 4 |
| Step 4 | GRC to scrutinize applications, cases referred to Deputy Commissioner through IA if the case is under arbitration law and beyond their mandate as per scope of work. If the case is within the mandate of GRC, proceed to Step 5   |
| Step 5 | GRC sessions held in presence of the aggrieved APs, minutes recorded.  |
|        | If resolved, the Project Director approves the decision of the GRC after recommendation of APD   |
|        | If not resolved, proceed to Step 6   |
| Step 6 | The AP may accept GRC decision, if not, he/she may file a case to the court of law for settlement. Then proceed to Step 7  |
| Step 7 | The GRC minutes, approved by the Project Director, received at Conveners' office back. The approved verdict is communicated to the complainant AP in writing. The AP then claims resettlement payments to EA   |

 All complaints from the APs will be received at the field office of the IA, the member secretary of the GRCs with a copy to the concerned Local Government Institution

- representatives. Grievances can be filed verbally or in written form, but in case of the verbal form, written form shall be prepared with assistance of IA at no cost to APs
- The representative of the IA in the GRCs upon receipt of complaints will inform the convener (RHD Executive Engineer) of the GRC and the convener will organize a hearing session for the complainants in the office of the concerned Union Parshad Chairman/Ward Councilor's from where the complaint was receipt or at RHD Field Office in the project aea or other location(s) as agreed by the Committee.
- The GRC will review the proceedings and pass verdicts to convey to the concerned AP through the IA.
- If there are such matters relating to arbitration through the courts, the matter will not be addressed by the GRC and be referred to the Deputy Commissioner.
- The GRC will settle the disputes within maximum 21 days of receiving the complaints from the APs.
- Resolution of the GRCs will be sent to the PD for approval and after approval these will
  be adopted in the process of resettlement for issuance of ID cards, determination of loss
  and entitlements and payment thereof.

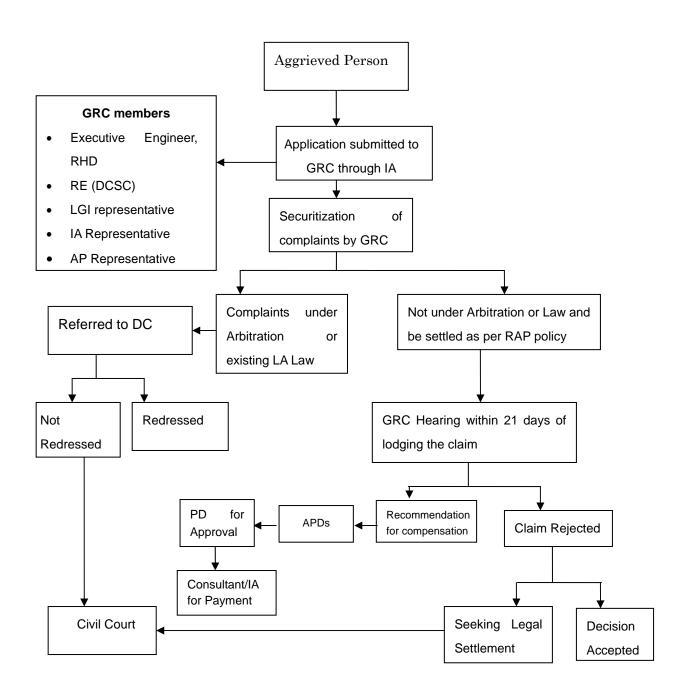


Figure 7.1 Grievance Redress Mechanism

#### 7.4 TOR for GRC

The scope of work and the Terms of Reference (TOR) for GRC are:

- (i) The GRC shall review, consider and resolve grievances related to social/resettlement and environmental mitigations during implementation of the RAP received by GRC
- (ii) Any grievances presented to the GRC should ideally be resolved on the first day of hearing or within a period of three weeks, in cases of complicated issues requiring additional investigations.
- (iii) Grievances of indirectly affected persons and/or persons affected during project implementation will also be reviewed by GRC
- (iv) The GRC will not engage in any review of the legal issues that are to be settled in the court of law
- (v) GRC decisions should ideally be arrived at through consensus, failing which resolution will be based on majority vote. Any decision made by the GRC must be within the purview of RAP policy framework and entitlements
- (vi) The GRC will not deal with any matters pending in the court of law
- (vii) A minimum three (3) members shall form the quorum for the meeting of the GRC.

GRC meetings will be held in the respective Union Parishad or Ward Office or at RHD Field Office in the project area or other location(s) as agreed by the Committee. If needed, GRC members may undertake field visits to verify and review the issues at dispute, including titles/shares, reason for any delay in payments or other relevant matters.

All GRC documents will be maintained by IA for review and verification by DCSC and JICA. The RHD Field Office(s) will act as the Secretariat to the GRC. GRC members will attend a training and orientation meeting prior to commencement of their work. The training will be conducted by Resettlement Specialist/Expert of the DCSC.

#### CHAPTER 8. ORGANIZATION AND RESPONSIBILITIES

## 8.1 Institutional Arrangement for RAP Implementation

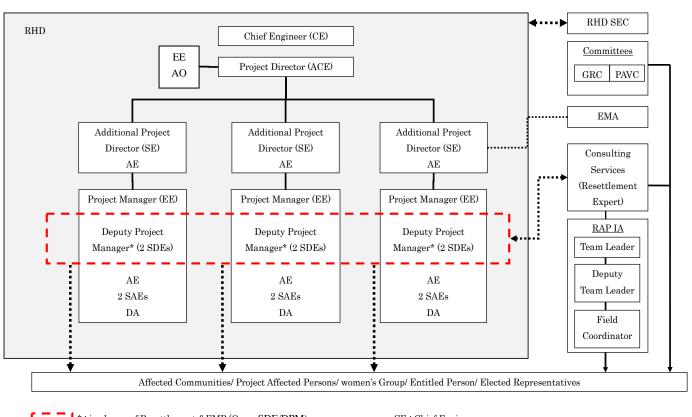
Roads & Highways Department will establish, for the Project, a Project Implementation Unit (PIU) headed by a Project Director (PD) at the project office that will be responsible for the overall execution of the Project. The PD will work on deputation from RHD at the level of Additional Chief Engineer who will oversee total project activities. There will be three Additional Project Directors (one for each bridge) at the level of Superintending Engineer (SE). Under each of the Additional Project Director, one Project Manager (PM) will be in place at the level of Executive Engineer (EE) and two Deputy Project Managers (DPM) at the level of Sub-divisional Engineer (SDE) will be deployed under each Project Manager. One of the DPM will be in charge of implementation of RAP, and called as DPM-Resettlement.

The PD will recruit a consultant including Resettlement Specialist/Expert. The consultant will recruit and appoint an experienced NGO/consulting firm in consultation with RHD/JICA which will be called as Implementing Agency (IA) as required for implementation of resettlement activities. The Deputy Project Manager in charge of resettlement (DPM-Resettlement) will undertake day-to-day activities with the appointed IA and National Resettlement Specialist/Expert of Design and Construction Supervision Consultants. The DPM-Resettlement will be directly involved in RAP implementation and will sign all necessary documents/papers (ID card, payment debit voucher, etc) related to compensation payment. The DPM (Resettlement) will play role as convener of the PAVC while the PM will be convener of the GRC.

The appointed IA will open field offices, carry out information campaign and involve affected persons including women in the implementation process from the very beginning. The IA will collect, collate, computerize and process data for identification of eligible persons correctly for resettlement benefits and assess their entitlements as per RAP policy. However, the RHD will affect the payments after necessary scrutiny. The DPM-Resettlement will report to the Additional Project Director and the Project Manager on monthly basis based on monthly progress report of the IA and field visit. He/she will work in close coordination with the respective field-based offices and IA on the day-to-day activities of the resettlement implementation.

The DPM-Resettlement through the officials of RHD and the IA will execute and monitor the progress of the RAP implementation work. The DPM-Resettlement will ensure coordination between the relevant departments, IA, the GRC, Property Assessment and Valuation Committee (PAVC) and the project affected people (PAPs). Apart from the GRC, PAVC will be formed by the Ministry of Communication for assessing and valuation of affected property. The composition and formation of committees and mechanisms for quantification and valuation of properties and grievance resolution will be constituted through government gazette.

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\*: in charge of Resettlement &EMP (One SDE/DPM)

CE: Chief Engineer

 $ACE: Additional\ Chief\ Engineer$ 

SE: Superintending Engineer

 ${\it EE}$ : Executive Engineer

 ${\rm SDE: Sub\text{-}divisional\ Engineer}$ 

AE: Assistant Engineer

SAE: Sub-Assistant Engineer AO: Accounts Officer

DA: Divisional Accountant

Figure 8.1 RAP Implementation Organogram

## **8.2 Functional Description**

## **8.2.1** Ministry of Communications (MOC)

The MOC, through a gazette notification will form grievance redress committee (GRC) and property assessment and valuation committee (PAVC) for implementation of the RAP at the field level. These committees will consist of representatives from LGED/PWD, RHD, IA, Local Government Institution (LGI). The GRC will include APs representative, as well. The powers and jurisdictions of the committees will be clearly defined in the gazette notification.

The MOC will approve the entitlements and resettlement budget along with the Resettlement Action Plan (RAP) and also release fund for the project especially for compensation and resettlement benefits of the affected persons. RHD will undertake steps, as per guidelines of the MOC and advice of the Government, to secure required funds both from external and internal sources for the implementation of the Project. The MOC will overall monitor the progress of the project implementation and guide the executing agency (RHD) in proper implementation within stipulated time.

## 8.2.2 Additional Project Director (APD)

The Additional Project Director (APD) will perform the following activities related to the resettlement:

- 1. Oversight implementation of the resettlement program according to and in agreements with the Development Partners (such as JICA)
- 2. Formulate necessary policy, administrative and financial decisions and actions necessary for the successful implementation of the program in consultation with GoB
- 3. Timely release of funds necessary to implement Resettlement program according to the approved implementation schedule.
- 4. Delegate responsibility and powers to the other resettlement officers as required for smooth implementation of the RAP.
- 5. Prepare Terms of Reference for External Monitoring, select and appoint an appropriate agency to execute these survey(s).
- 6. Propose RHD any remedial action based on the Post-Resettlement Survey.
- 7. Pay additional grant for house/business establishment construction grant, and dismantling and removal assistance and all other assistances in cash or kind stipulated under the resettlement policy to all the eligible PAPs.
- 8. Negotiate with Contractors for arranging employment for PAPs in project construction works.

## 8.2.3 Deputy Project Manager for Resettlement (DPM-Resettlement)

The DPM-Resettlement through the field officials and staffs and IA will execute and monitor the progress of the RAP implementation work. The DPM-Resettlement will ensure coordination between the relevant departments, IA, the GRC, Property Assessment and Valuation Committee (PAVC) and the Project APs. The DPM-Resettlement will report to the Additional Project Director and to the Project Manager and will work in close coordination with the respective field-based offices and the IA on the day-to-day activities of the resettlement implementation.

## 8.2.4 RAP Implementing Agency (IA)

The DCSC will recruit an experienced NGO/consulting firm as IA in consultation with RHD/JICA for implementation of resettlement activities. IA will be engaged to assist RHD in updating the RAP during detailed design phase and will be continuing for implementation of the RAP. Tasks of the IA include consultation /public information campaign for rapport building, issuance of ID cards to Entitled Persons (EPs), payment of eligible benefits to affected households/ individuals, institutional development, skill training/management training, community awareness and empowerment, etc. The IA will be headed by Team Leader with Deputy Team Leader, MIS Specialist and Field Coordinator.

The appointed IA will open field offices, carry out information campaign and involve affected persons (APs) including women in the implementation process from the very beginning.

The IA will create ID number for each affected person as identified during Joint Verification survey by PAVC for non-title holder. The ID card will be issued with joint signature of the DPM Resettlement and Field Coordinator of the IA. Photograph of the EPs will be attested by the concerned Union Parshad (UP) Chairman and pasted on the ID card. The ID card will comprise information on name, father's/husband's name, mother's name, age, education, identifiable marks, detail address, details of quantity of losses etc.

IA will establish a Management Information System (MIS) section in their office for record keeping of the APs, creating individual ID number of the entitled persons, preparing EP's file based on quantity of losses and entitlement card (EC) based on loss type and budget. IA will collect, collate, computerize and process data for identification of eligible persons correctly for resettlement benefits and assess their entitlements as per RAP policy. However, the DPM-Resettlement will affect the payments after necessary scrutiny.

The IA will assist the EPs in preparing necessary papers for receiving compensation from RHD. They will form focused group with the APs based on homogeneity and/or nearness and hold meetings on regular basis to let them know their right and entitlements as prescribed in the RAP, updating of record of rights (RoR), opening of bank account, process of receiving payments/ grants from RHD through IA etc.

## 8.2.5 Grievance Redress Committee (GRC)

GRC is to resolve any resettlement-related grievances locally in consultation with the aggrieved party to facilitate smooth implementation of the social and environmental action plans.

### **8.2.6** Property Assessment and Valuation Committee (PAVC)

A Property Assessment and Valuation Committee (PAVC) will be formed by the MOC through a gazette notification for the project. The PAVC will review the quantum of losses written against each of the affected households and also verify the replacement value of the affected properties so far determined during preparation of the RAP. The scope and responsibility of the PAVC will clearly be defined in the gazette. The IA will process the entitlements of the project-affected persons using the PAVC data as one of the determinants.

The PAVC will be comprised as:

Sub-Divisional Engineer or equivalent (Resettlement), RHD - Convener

Sub-Divisional Engineer (Social & Environment Circle), RHD – Member

Representatives from Local Government Engineering Department (LGED) / Public Works Department (PWD)— Member

Field Coordinator, RAP Implementing Agency – Member secretary;

## 8.2.7 Design and Construction Supervision Consultants

There will be provision for Resettlement Specialist/Expert as part of the Consultants in charge of design and supervising the implementation of the Project. The Resettlement Specialist/Expert will be involved for RAP implementation. The DCSC will procure experienced NGO/consulting firm, in consultation with JICA and RHD, as RAP Implementing Agency (IA) for day to day resettlement activities. The Resettlement Specialist/Expert will provide technical support to RHD and supervise and review the field activities of the IA in collaboration with the RHD. The Resettlement Specialist/Expert will review RAP updated by IA and also assist the GRC for facilitating the committee members in taking genuine decision.

## 8.2.8 External Monitoring Agency (EMA)

External Monitoring by an independent party such as local/international consultants, NGO or university will be engaged to confirm if the resettlement activities are being implemented properly. The EMA will evaluate if the resettlement activities are being implemented as scheduled in terms of quality, quantity and time frame and if the final target (improvement of livelihood/life level) has been achieved or not.

 Table 8.1
 Institutional Responsibilities in Resettlement Process

| Rel | ated Activities and Responsibilities   | Responsibility              |
|-----|--|-----------------------------|
| A.  | Preparation of Updated RAP   |                             |
|     | Recruitment of RAP Implementing Agency (IA)  | RHD                         |
|     | Updating of RAP (including census survey based on detailed design; identifying final PAPs) | RU (RHD) and IA             |
|     | Confirmation of self relocation site of the identified final PAPs                          | RU (RHD) and IA             |
|     | Design and reproduction of RAP Information Brochures                                       | RU (RHD) / IA               |
|     | Disclosure and public consultations  | RU (RHD) / IA               |
|     | Carry out joint verification survey and verify the RAP data                                | PAVC                        |
|     | Market survey of structure, crops and trees and verify the RAP data                        | PAVC                        |
|     | Establishment of unit prices   | PAVC/RHD                    |
|     | Determination of entitlements and consultations with individual APs                        | RHD/IA                      |
|     | Consultation with EA, APs and stakeholders   | RHD/IA                      |
|     | Approval of RAP  | RHD/MOC                     |
| B.  | RAP Implementation   |                             |
|     | Mobilization of GRC  | RHD/IA                      |
|     | Establishment of internal monitoring   | MOC/RHD                     |
|     | Budget approval for compensation and resettlement  | RHD/MOC                     |
|     | Release of funds for compensation  | RHD/MOC                     |
|     | Filing and resolution of complaints APs,   | RHD/GRCs/IA                 |
|     | Consultation with APs on schedule of clearing the lands                                    | RHD/IA                      |
|     | Clearing of lands  | APs                         |
|     | Concurrence to the award of civil works contract   | Development Partners (JICA) |
|     | Relocation and livelihood restoration assistance   | IA/RHD                      |
| C.  | Monitoring and Evaluation  |                             |
|     | Internal monitoring (during and post implementation)                                       | RHD/IA                      |
|     | Independent external monitoring and evaluation (during and post implementation)            | External Monitoring Agency  |

#### CHAPTER 9. IMPLEMENTATION SCHEDULE

## 9.1 Implementation Schedule

Implementation of the RAP will begin prior to the commencement of engineering works. A total of 41 months time is proposed for implementation of the RAP from the date of deployment and orientation of the IA (1<sup>st</sup> month of design stage) up to the end of the monitoring (11<sup>th</sup> month of the construction stage). No construction work will begin until APs have been compensated and relocated from the project site. Relocation will be undertaken after necessary compensation and assistance will be provided to APs.

The following steps will be followed for the RAP implementation:

- 1) Identification of the households and other entities through socioeconomic survey
- 2) Inventory of affected property by IA
- 3) Establishment of cut-off dates
- 4) Updating of RAP by RHD with assistance of IA
- 5) Formation of PAVC and GRC
- 6) Taking Photograph of EPs for preparation of ID cards
- 7) Distribution of ID cards
- 8) Communication to PAPs on commencement of engineering works
- 9) Establishment of process for compensating PAPs
- 10) Communication to PAPs of deadlines and modalities for receiving compensation
- 11) Determination of individual entitlement
- 12) Disbursement of compensation/entitlements to PAPs through A/C payee cheque
- 13) Relocation of households after payment of compensation cheques
- 14) Allow at least 4-weeks time for relocation after payment of compensation and benefits
- 15) Hearing of grievances
- 16) Closure of compensation cases
- 17) Conduct need based survey for obtaining preference on Income Generating Activities (IGA) training for eligible members of the households
- 18) Conduct Training on Income Generating Activities
- 19) Implementation of livelihood & income restoration program for vulnerable groups

 Table 9.1
 Implementation Schedule in Bar Chart

| Activities  | L.                    |              | 2012         |              |             |                   |                       | 013               |                       |                   |     | 20                |             |                   |                   | _                 |             | 201               |             |  |                   |              |              | 2016              |  |             | L           |              | 20           |                   |  |                   |                   |                       | 018                 |                       | 1                     |                   |                           | 119                   |                           |                       |              | 2020              |                           |                   |  |                       | )21          |                   |                   |                   |                     | 2022                  |                   |              | Month | th |
|---|-----------------------|--------------|--------------|--------------|-------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----|-------------------|-------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------|--|-------------------|--------------|--------------|-------------------|--|-------------|-------------|--------------|--------------|-------------------|--|-------------------|-------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------|-------------------|---------------------------|-------------------|--|-----------------------|--------------|-------------------|-------------------|-------------------|---------------------|-----------------------|-------------------|--------------|-------|----|
| Pre-Project Activities  | 1 2 3                 | 3 4 5        | 6 7          | 8 9 10       | 11 12       | 1 1               | 3 4 5                 | 6 7               | 9 10 1                | 1 1 1             | 2 3 | 4 5 6             | 7 8         | 9 10              | 11 12             | 1 2               | 4           | 5 6               | 7 8 5       | 10 1   | 12 1              | 2 3          | 4 5          | 6 7               | 8 9 10   | 11 12       | 1 2         | 3 4          | 5 6          | 7 8               | 9 10 1   | 1 12              | 1 2 3             | 4 5                   | 6 7 8               | 8 9 10                | 11 12 1               | 2 3               | 4 5 6                     | 7 8                   | 10 11 1                   | 2 1 2                 | 4 5          | 6 7               | 8 9 10                    | 11 12             | 1 2 3  | 4 5                   | 7 8          | 9 10              | 11 12             | 1 2 3             | 4 5                 | 6 7                   | 8 9 10            | 11 12        | 13    | _  |
| -Pledge of Loan   | $\parallel \parallel$ | Н            | $\parallel$  | +            | H           | +                 | ++                    | $\dagger \dagger$ | $\forall \dagger$     | $\dagger$         | Н   | $^{\dagger}$      | Н           | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger$   | $\dagger$         | $\dagger$   | H  | $\dagger$         | H            | $\parallel$  | $\dagger$         | $\dagger \dagger$  | $\dagger$   | $\dagger$   | H            | $\forall$    | $\dagger$         | $\dagger \dagger$  | $\dagger$         | $\parallel$       | $\parallel \parallel$ | $^{\dagger\dagger}$ | H                     | H                     | $\mathbb{H}$      | $\parallel \parallel$     | $\parallel \parallel$ | $\dagger\dagger$          | $^{\dagger\dagger}$   | Н            | $\dagger \dagger$ | $\parallel \parallel$     | +                 | $^{\dagger}$   | $\parallel \parallel$ | H            | H                 | $\dagger \dagger$ | $\dagger$         | $\dagger$           | H                     | $\dagger \dagger$ | Н            | 1     |    |
| -Signing of Loan Agreement  | $\forall t$           | Ш            | $\parallel$  | $\dagger$    |             | †                 | 1                     | $\dagger \dagger$ | Ш                     | $\dagger \dagger$ | Ш   | $\dagger \dagger$ | Н           | $\parallel$       | $\dagger \dagger$ | $\dagger \dagger$ | H           | $\dagger \dagger$ | $\dagger$   | Ħ  | $\dagger \dagger$ | Н            | Ħ            | $\dagger\dagger$  | $\dagger \dagger$  | Ħ           | $\dagger$   | Ш            | $\forall$    | $\dagger \dagger$ | $\dagger \dagger$  | $\dagger \dagger$ | $\parallel$       | Ш                     | $\dagger \dagger$   | Ш                     | Ш                     | Ш                 | Ш                         | $\parallel \parallel$ | $\dagger \dagger \dagger$ | $\dagger\dagger$      | Ш            | $\dagger \dagger$ | Ш                         | $\dagger \dagger$ | $\dagger \dagger$  | $\parallel \parallel$ | Ш            | Ш                 | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger$           | Ш                     | $\dagger \dagger$ | Ш            | 1     |    |
| -Loan effectiveness   | Ш                     | Ш            | $\forall$    | $\dagger$    |             | $\dagger$         | $\parallel \parallel$ | +                 | Ш                     | $\dagger$         | Ш   | $\dagger \dagger$ | Н           | $\parallel$       | $\dagger \dagger$ | $\dagger \dagger$ | H           | $\dagger \dagger$ | Ħ           | H  | $\dagger$         | T            | Ħ            | $\dagger \dagger$ | $\dagger \dagger$  | H           | Ħ           | Ш            | $\parallel$  | $\dagger \dagger$ | $\dagger \dagger$  | $\dagger \dagger$ | H                 | Ш                     | $\dagger \dagger$   | Ш                     | Ш                     | $\forall$         | $^{\dagger\dagger}$       |                       | $\dagger\dagger$          | $^{\dagger\dagger}$   | Ш            | $\dagger \dagger$ | Ш                         | $\dagger$         | $\dagger$  | $\dagger \dagger$     | Ш            | $\forall$         | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger$           | Ш                     | $\dagger$         | Ш            | 1     |    |
| ·Selection of Consultant  | $^{\dagger\dagger}$   | Ш            | Ш            | $^{\dagger}$ |             | $\dagger \dagger$ | 1 1                   | 1 1               | 1 1                   | 1 1 1             | Ш   | $\dagger$         | Н           | H                 | $\dagger$         | $\dagger$         | Ħ           | $^{\dagger}$      | Ħ           | Ħ  | $\dagger \dagger$ | П            | Ħ            | Ħ                 | $\dagger\dagger$   | Ħ           | Ħ           | Ш            | Н            | $\dagger \dagger$ | $\dagger \dagger$  | Ħ                 | $^{\dagger}$      | Ш                     | $\dagger \dagger$   | Ш                     | Ш                     | Ш                 | Ш                         |                       | Ш                         | $^{\dagger\dagger}$   | Ш            | $\dagger \dagger$ | Ш                         | $^{\dagger}$      | $\dagger$  | Ш                     | Ш            | Ш                 | $\dagger \dagger$ | $\dagger$         | Ħ                   | Ш                     | $\dagger \dagger$ | Ш            | 10    |    |
| Consulting Services   | Ш                     | Ш            |              | $\parallel$  |             | Ħ                 | Ш                     | Ħ                 | Ш                     | Ħ                 | 1 1 | 1 1 1             | 1 1         | 1 1               | 1 1               | 1 1               | 1           | 1 1               | 1           | 1  | 1 1               | 1 1          | 1 1          | 1 1               | 1 1 1  | 1 1         | 1 1         | 1 1          | 1 1          | 1 1               | 1 1  | 1 1               | 1 1               | 1 1                   | 1 1 1               | 1 1                   | 1 1 1                 | 1 1               | 1 1 1                     | 1 1                   | 1 1                       | 1 1                   | 1 1          | 1 1               | 1 1 1                     | 1 1               | 1 1 1  | 1 1                   | 1 1          | 1 1               | 1 1               | 1 1 1             | 1                   | 1 1                   | $\parallel$       |              | 102   | 2  |
| -Detailed Design  | +                     | Ш            | $\parallel$  | $\dagger$    |             | $\dagger \dagger$ | $\parallel \parallel$ | $\dagger \dagger$ | Ш                     | $\dagger$         | 11  | 1 1 1             | 1 1         | 1 1               | 1 1               | +                 | Ħ           | $\dagger \dagger$ | Ħ           | Ħ  |                   | $\Box$       | Ħ            | $\dagger \dagger$ | $\dagger \dagger$  | H           | Ħ           | Ш            | Н            | $\dagger \dagger$ | $\dagger \dagger$  | $\dagger \dagger$ | $\parallel$       | Ш                     | $\dagger \dagger$   | Ш                     | Ш                     | $\forall$         | $\parallel$               |                       | $\parallel \parallel$     | $\Box$                | Ш            | $\dagger \dagger$ | $\parallel \parallel$     | $\dagger \dagger$ | $\dagger$  | $\forall t$           | Ш            | $\forall$         | $\dagger \dagger$ | $\dagger$         | $\dagger$           | Ш                     | $\dagger$         |              | 12    |    |
| •Tender Assistance  | Ш                     | Ш            | Ш            | $\dagger$    |             | Ħ                 | Ш                     | $\parallel$       | Ш                     | Ħ                 | Ш   | $\dagger$         | П           | П                 | Ħ                 | 1                 | 1           | 1 1               | 1           | 1  | 1 1               | 1 1          | 1 1          | 1 1               | Ħ  |             | Ħ           | Ш            | $\parallel$  | $\dagger \dagger$ | $\dagger \dagger$  | Ħ                 | Ħ                 | Ш                     | $\dagger \dagger$   | $\parallel \parallel$ | Ш                     | Ш                 | Ш                         |                       | Ш                         | Ш                     | Ш            | Ħ                 | Ш                         | Ħ                 | Ħ  | $\parallel$           | Ш            | H                 | $\dagger$         | Ħ                 |                     | Ш                     | Ħ                 | Ш            | 18    |    |
| -Construction Supervision   | $\forall t$           | Ш            | $\parallel$  | $\dagger$    |             | $\dagger \dagger$ | $\forall \exists$     | $\dagger\dagger$  | Ш                     | $\dagger \dagger$ | Ш   | $\dagger \dagger$ | Н           | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger \dagger$ | Ħ           | $\dagger$         | Ħ           | Ħ  | $\dagger \dagger$ | $\parallel$  | Ħ            | ††                |  | 1 1         | 1 1         | 1 1          | 1 1          | 1 1               | 1  | 1 1               | 1                 | 11                    | 1                   | 1                     | 1 1 1                 | 1                 | 1 1 1                     | 1                     | 11                        | 11                    | 1 1          | 1 1               | 1 1 1                     | 1 1               | 1 1 1  | 1 1                   | 1            | $\forall t$       | #                 | $\dagger \dagger$ | $\dagger$           | Ш                     | $\dagger \dagger$ | Ш            | 60    |    |
| -Defects Liability Period   | $^{\dagger\dagger}$   | Ш            | $\parallel$  | $\dagger$    |             | #                 | Ш                     | $\dagger\dagger$  | Ш                     | $\dagger$         | Ш   | $\dagger$         | Н           | $\parallel$       | $\dagger$         | $\dagger \dagger$ | Ħ           | $\dagger$         | Ħ           | Ħ  | $\dagger$         | Н            | Ħ            | $\dagger \dagger$ | $\dagger \dagger$  | Ħ           | $\dagger$   | Ш            | $\forall$    | $\dagger$         | $\dagger \dagger$  | $\dagger \dagger$ | $\dagger \dagger$ | Ш                     | $\dagger \dagger$   | Ш                     | Ш                     | $\forall \dagger$ | Ш                         | $\parallel \parallel$ | $\dagger\dagger$          | $\dagger\dagger$      | Ш            | $\dagger \dagger$ | Ш                         | $^{\dagger}$      | $\dagger$  | $\parallel \parallel$ | 1            | 1 1               | 1 1               | 1 1 1             | 1                   | 1 1                   | $\dagger \dagger$ | Н            | 12    |    |
|   |                       |              |              | П            |             | 11                |                       | Н                 |                       |                   | 1 1 | 1 1 1             | 1 1         | 1 1               | 1 1               | , ,               | 1           | , ,               | 1 1         |  | 1 1               | 1 1          | 1 1          | 1 1               |  | 1 1         | 1 1         | 1 1          | 1 1          | H                 |  | $^{+}$            | П                 |                       | <del>     </del>    |                       |                       | Н                 |                           |                       |                           | +                     | Ш            | 11                |                           | $\dagger$         | П  |                       | Ш            | П                 | $^{\dagger}$      | Н                 | $\frac{\Box}{\Box}$ | Н                     | Н                 |              |       | =  |
| RAP Implementation  | $\coprod$             | $\mathbb{H}$ | +            | +            |             | +                 | $\mathbb{H}$          | $\mathbb{H}$      | H                     | +                 |     | $\blacksquare$    |             | $\parallel$       | H                 | H                 | H           | $\parallel$       | $\parallel$ | H  |                   |              |              | $\parallel$       | H  | H           |             | H            | $\parallel$  | $\parallel$       | +  | $\parallel$       | $\mathbb{H}$      | Ш                     | #                   | H                     | $\mathbb{H}$          | $\mathbb{H}$      | $\mathbb{H}$              | Н                     | $\mathbb{H}$              | $\mathbb{H}$          | $\mathbb{H}$ | +                 | $\mathbb{H}$              | +                 | +  | $\mathbb{H}$          | Н            | Н                 | +                 | +                 | $\parallel$         | Н                     | +                 | Н            | 41    |    |
| -Deployment and Orientation of IA   | Ш                     | Ш            | $\mathbb{H}$ | #            |             | #                 | $\coprod$             | $\parallel$       | Ш                     | +                 |     | 1 1 1             | 1 1         | 1 1               |                   | 1                 | $\parallel$ | $\coprod$         | $\parallel$ | $\!$ | $\perp$           | Ш            | $\mathbb{H}$ | $\parallel$       | H  | $\parallel$ | $\parallel$ | Ш            | $\parallel$  | $\coprod$         | $\!$ | $\perp$           | $\mathbb{H}$      | Ш                     | #                   | Ш                     | $\square$             | Ш                 | Ш                         | Ш                     | $\coprod$                 | $\coprod$             | Ш            | #                 | $\mathbb{H}$              | $\mathbb{H}$      | +  | $\parallel \parallel$ | Ш            | Ш                 | $\parallel$       | 4                 | 4                   | Ш                     | +                 | Ш            | 2     |    |
| -Updating RAP   | Ш                     | Ш            |              | 4            |             | 4                 | Ш                     | $\coprod$         | Ш                     | 4                 |     |                   |             |                   |                   |                   | $\parallel$ | Н                 | $\parallel$ | $\coprod$  |                   | Ш            | $\coprod$    | $\coprod$         | $\parallel$  | Ш           | Н           | Ш            | $\parallel$  | Ш                 | $\parallel$  | 4                 | Н                 | Ш                     | 4                   | Ш                     | Ш                     | Ш                 | Ш                         |                       | Ш                         | Ш                     | Ш            | 4                 | Ш                         | 4                 | $\parallel$  | $\parallel$           | Ш            | Ш                 | 4                 | 4                 | Ш                   | Ш                     | $\parallel$       | Ш            | 12    |    |
| •Information Campaign   | Ш                     | Ш            | Ш            | 4            |             | 4                 | Ш                     | $\parallel$       | Ш                     | 4                 |     |                   |             |                   |                   | Ï.                | $\parallel$ | $\coprod$         | Ц           | $\coprod$  |                   |              | $\coprod$    | $\coprod$         | $\perp$  | Ш           | Ц           |              | $\perp \mid$ | Ш                 | $\perp \!\!\! \perp$   | 1                 | Ш                 | Ш                     | $\bot$              | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | 4                 | Ш                         | Ш                 | $\coprod$  | Ш                     | Ш            | Ш                 | 4                 | 4                 | Ш                   | Ш                     | $\parallel$       |              | 12    |    |
| Conducting Census and Socioeconomic Survey  | Ш                     | Ш            | Ш            | Щ            |             | 4                 | Ш                     | $\parallel$       | Ш                     | $\parallel$       | Ш   |                   | Ш           | Ш                 | Ш                 | $\parallel$       | $\parallel$ | $\coprod$         | $\parallel$ | $\parallel$  | Ш                 | Ш            | Ц            | 4                 | $\!$ | Щ           | Ц           | Ш            | Щ            | Щ                 | 4  | 1                 | Ш                 | Ш                     | 4                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | 4                 | Ш                         | Щ                 | $\!$ | Ш                     | Ш            | Ш                 | 4                 | 4                 | Ц                   | Ш                     | $\parallel$       |              | 3     |    |
| Data Entry and Report Generation  | Ш                     | Ш            | Ш            | Ш            |             | Ш                 | Ш                     | Ц                 | Ш                     | Ш                 | Ш   | 1                 | Ш           | Ш                 | Ш                 | Щ                 | Ц           | Ш                 | Ц           | Ш  | Ш                 | Ш            | Ш            | Ц                 | Ш  | Ш           | Ц           | Ш            | Щ            | Ш                 | Щ  | Ш                 | Ш                 | Ш                     | Щ                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | Щ                 | Ш                         | Щ                 | Ш  | Ш                     | Ш            | Ш                 | Щ                 | Ш                 | Ш                   | Ш                     | Ш                 | Ш            | 2     |    |
| Determination of individual entitlement & issues of ID cards                              | Ш                     | Ш            | Ш            | Щ            |             | Ш                 | Ш                     | Ц                 | Ш                     | Ц                 | Ш   | 1 1 1             |             | Ш                 | Ц                 | Щ                 | Ц           | Ц                 | Ц           | Ц  | Ш                 | Ш            | Ц            | Ц                 | Щ  | Ц           | Ц           | Ш            | Ш            | Щ                 | Щ  | Ш                 | Ш                 | Ш                     | 1                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | Щ                 | Ш                         | Щ                 | Щ  | Ш                     | Ш            | Ш                 | $\perp$           | Щ                 | Ш                   | Ш                     | Щ                 | Ш            | 4     |    |
| - Distribution of Information Brochure  | Ш                     | Ш            | Ш            | Щ            |             | Ш                 | Ш                     | Ц                 | Ш                     | Ш                 | Ш   | 1 1 1             | Ш           | Ш                 | Ш                 | Щ                 | Ц           | Щ                 | Ц           | Ц  |                   |              | Ц            | Щ                 | Щ  | Ш           | Ц           | Ш            | Щ            | Щ                 | Щ  | Ш                 | Ш                 | Ш                     | Щ                   | Ш                     | Ш                     | Щ                 | Щ                         | Ш                     | Ш                         | Ш                     | Ш            | Щ                 | Ш                         | Щ                 | Щ  | Ш                     | Ш            | Ш                 | Ш                 | Ш                 | Ш                   | Ш                     | Щ                 | Ш            | 3     |    |
| -Formation of PAVC and GRC  | Ш                     | Ш            | Ш            | Ш            |             | Ш                 | Ш                     | Ц                 | Ш                     | Ш                 | Ш   | 1                 |             |                   |                   | Ш                 | Ц           | Ш                 | Ш           | Ц  |                   |              | Ш            | Ц                 | Ш  | Ц           | Ш           | Ш            | Ш            | Щ                 | Ш  | Ш                 | Ш                 | Ш                     | Щ                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | Щ                 | Ш                         | Ш                 | Щ  | Ш                     | Ш            | Ш                 | Ш                 | Ш                 | Ш                   | Ш                     | Ш                 | Ш            | 1     |    |
| -Functioning of PAVC  | Ш                     | Ш            | Ш            | Ш            |             | Ш                 | Ш                     | Ш                 | Ш                     |                   | Ш   | l'                | 1 1         | 1 1               | 1                 | Ш                 | Ц           | Ш                 | Ш           | Ш  |                   | Ш            | Ш            | Ш                 | Ш  | Ш           |             | Ш            | Ш            | Ш                 | Ш  |                   | Ш                 | Ш                     | Ш                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | Ш                 | Ш                         | Ш                 | Ш  | Ш                     | Ш            | Ш                 | Ш                 | Ш                 |                     | Ш                     | Ш                 | Ш            | 6     |    |
| Validation of Assessment Value  | Ш                     | Ш            |              | Ш            |             | Ш                 | Ш                     | Ш                 | Ш                     |                   | Ш   | Ш                 | 1 1         | 1 1               | Ш                 |                   |             | Ш                 | Ш           | Ш  |                   |              | Ш            |                   | Ш  |             |             | Ш            | Ш            | Ш                 | Ш  |                   | Ш                 | Ш                     | Ш                   | Ш                     | Ш                     | Ш                 | Ш                         | Ш                     | Ш                         | Ш                     | Ш            | Ш                 | Ш                         | Ш                 | Ш  | Ш                     | Ш            | Ш                 | Ш                 |                   |                     | Ш                     |                   |              | 4     |    |
| Preparation of final resettlement budget by IA,<br>submission to RHD/MOC and its approval |                       | Ш            |              | Ш            |             |                   | Ш                     |                   | Ш                     |                   | Ш   | Ш                 | 1           | 1                 |                   |                   |             | Ш                 |             |  |                   |              |              | Ш                 | Ш  |             |             | Ш            | Ш            | Ш                 | Ш  |                   |                   | Ш                     | Ш                   | Ш                     | Ш                     |                   | Ш                         |                       | Ш                         | Ш                     | Ш            | Ш                 | Ш                         |                   | Ш  |                       | Ш            | Ш                 |                   | Ш                 |                     |                       |                   |              | 2     |    |
| Opening Bank Account for PAPs   |                       |              |              |              |             |                   |                       |                   |                       |                   |     |                   |             | 1 1               |                   |                   |             | $\prod$           |             |  |                   |              |              |                   |  |             |             |              |              |                   |  |                   |                   |                       |                     |                       |                       |                   |                           |                       |                           |                       |              |                   |                           |                   |  |                       |              |                   |                   |                   |                     |                       |                   |              | 2     |    |
| •Functioning of GRC   | П                     | П            |              | П            |             | П                 | $\prod$               | П                 | Ш                     | П                 |     | 1                 | 1 1         | 1 1               | 1 1               | 1 1               | 1           | 1 1               | 1           | 1  | 1 1               | 1 1          | 1            | T                 | П  | П           | П           |              | $\parallel$  | T                 | $\prod$  | П                 | П                 | П                     | П                   | П                     | Ш                     |                   | П                         |                       | Ш                         | П                     |              | $\prod$           | Ш                         | $\prod$           | П  |                       | П            | П                 | $\prod$           | П                 | П                   | П                     | П                 |              | 23    |    |
| Payment of Resettlement Benefit to EP by RHD  | Ш                     | Ш            |              | П            |             | Ħ                 | Ш                     | Ħ                 | Ш                     |                   | П   | $\parallel$       |             |                   | 1 1               | 1                 | 1           | Ħ                 | Ħ           | Ħ  |                   | П            | П            | Ħ                 | $\parallel$  | Т           | Т           | Ш            | $\parallel$  | $\parallel$       | $\prod$  | IT                | П                 | Ш                     | T                   | Ш                     | Ш                     | П                 | Ш                         |                       | Ш                         | $\prod$               | П            | $\parallel$       | Ш                         | $\parallel$       | $\parallel$  | $\parallel$           | Ш            | П                 | $\parallel$       | П                 | Ħ                   | П                     | $\parallel$       | Ш            | 6     |    |
| ·Help in Relocation of desplaced PAPs by IA and RHD                                       | $\parallel \parallel$ | Ш            |              | $\parallel$  |             | $\parallel$       | $\parallel \parallel$ | Ħ                 | $\parallel \parallel$ | T                 | Ш   | $\parallel$       | П           | $\parallel$       | Ħ                 | 1                 | 1           | 1                 |             | 1  | 1                 |              | Ħ            | $\parallel$       | $\parallel$  | Ħ           | IT          | Ш            | $\parallel$  | $\dagger$         | $\parallel$  | IT                | Ш                 | Ш                     | $\parallel$         | Ш                     | $\parallel \parallel$ | $\parallel$       | Ш                         |                       | $\parallel \parallel$     | $\parallel \parallel$ | Ш            | $\dagger \dagger$ | Ш                         | $\parallel$       | $\parallel$  | $\parallel$           | Ш            | $\parallel$       | $\parallel$       | $\parallel$       | Ħ                   | Ш                     | $\parallel$       |              | 12    |    |
| ·Help in Rehabilitation of desplaced PAPs by IA and RHD                                   | $\parallel \parallel$ | Ш            | $\parallel$  | $\dagger$    | $\parallel$ | $\dagger \dagger$ | $\parallel \parallel$ | $\parallel$       | $\parallel \parallel$ | Ħ                 | Ш   | $\dagger \dagger$ | $\parallel$ | $\dagger \dagger$ | 1                 | 1                 | 1           | 1 1               | 1           | 1  | 1 1               | 1 1          | 1            | $\dagger \dagger$ | $\dagger \dagger$  | $\dagger$   | $\dagger$   | Ш            | $\parallel$  | $\dagger$         | $\dagger \dagger$  | Ħ                 | $\parallel$       | $\parallel \parallel$ | $\dagger \dagger$   | $\parallel \parallel$ | $\parallel$           | $\forall \dagger$ | $\dagger \dagger \dagger$ | $\parallel \parallel$ | $\dagger\dagger$          | $\dagger\dagger$      | Ш            | $\dagger\dagger$  | $\parallel \parallel$     | $\dagger \dagger$ | $\dagger$  | $\parallel \parallel$ | H            | $\forall \dagger$ | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger$           | $\parallel \parallel$ | $\dagger \dagger$ | Ш            | 16    |    |
| -Handing over the aquired land by RHD to Contractor                                       | $\parallel \parallel$ | Ш            | $\parallel$  | $\dagger$    |             | $\dagger \dagger$ | ++                    | $\dagger \dagger$ | $\dagger\dagger$      | $\dagger$         | H   | $\dagger$         | $\parallel$ | $\parallel$       | $\dagger \dagger$ | $\dagger \dagger$ | $\parallel$ | $\dagger \dagger$ | $\dagger$   | $\dagger$  | 1                 | 1 1          | 1 1          | $\dagger \dagger$ | $\dagger \dagger$  | $\dagger$   | $\dagger$   | H            | $\parallel$  | $\dagger$         | $\dagger\dagger$   | $\dagger$         | $\dagger \dagger$ | Ш                     | $\dagger \dagger$   | $\parallel \parallel$ | $\parallel \parallel$ | H                 | $\dagger \dagger$         | H                     | $\dagger\dagger$          | $\dagger\dagger$      | Ш            | $\dagger \dagger$ | $\dagger \dagger \dagger$ | $\dagger \dagger$ | $\dagger$  | $\parallel \parallel$ | H            | $\forall t$       | $\dagger \dagger$ | $\dagger \dagger$ | $\dagger$           | H                     | $\dagger \dagger$ | H            | 5     |    |
| -Internal Monitoring  | ${\mathbb H}$         | H            | +            | +            | H           | +                 | H                     | $\dagger \dagger$ | $\forall t$           | +                 |     | +                 | 1           | +                 | 1                 | +                 | $\parallel$ | +                 | +           | H  | +                 | -            | 1            | $\dagger$         | +  | 1           |             | H            | 1            | $\dagger$         | +  | $\dagger$         | +                 | H                     | $^{+}$              | H                     | +                     | $\mathbb{H}$      | +                         | H                     | $\forall \dagger$         | ++                    | H            | +                 | +                         | +                 | +  | ++                    | H            | H                 | +                 | +                 | $^{+}$              | H                     | +                 | H            | 14    |    |
| Procurement of External Monitoring Agency (EMA)   | $\mathbb{H}$          | Н            | +            | +            |             | +                 | H                     | H                 | ₩                     | +                 | Н   | 1                 | Н           | $\parallel$       | +                 | $^{+}$            | $\parallel$ | $^{+}$            | +           | +  | +                 | Н            | $\mathbb{H}$ | +                 | +  | $\parallel$ | $\parallel$ | Н            | +            | +                 | +  | +                 | +                 | $\mathbb{H}$          | +                   | H                     | H                     | $\mathbb{H}$      | +                         | Н                     | ₩                         | H                     | Н            | +                 | $\mathbb{H}$              | +                 | +  | H                     | Н            | Н                 | +                 | +                 | H                   | Н                     | +                 | Н            | 1     |    |
|   | ₩                     | $\mathbb{H}$ | +            | +            | H           | +                 | +++                   | +                 | ₩                     | +                 | Н   | +                 | 1           | +                 | $+\!\!+$          | +                 | H           | +                 | +           | +  | +                 | $\mathbb{H}$ | -            | H                 | +  | $\vdash$    | $\vdash$    | $\mathbb{H}$ | 1 1          | +                 | $+\!\!+$   | +                 | H                 | $\mathbb{H}$          | +                   | H                     | H                     | $\mathbb{H}$      | +                         | H                     | ₩                         | ++                    | $\mathbb{H}$ | $+\!\!+$          | ++                        | +                 | +  | ++                    | $\mathbb{H}$ | Н                 | +                 | +                 | +                   | $\mathbb{H}$          | +                 | $\mathbb{H}$ |       |    |
| - External Monitoring   |                       | Ш            |              |              |             | П                 |                       | П                 | Ш                     |                   | Ш   |                   |             |                   |                   | $\prod$           | П           |                   |             |  |                   |              |              |                   |  |             | Ш           |              |              | Ш                 | 11   |                   | Ш                 |                       |                     |                       |                       |                   |                           |                       | Ш                         |                       |              |                   |                           | Ш                 |  |                       | Ш            |                   |                   | Ш                 | Ш                   |                       |                   |              | 8     |    |

RAP implementation activities of IA will last 26 months excluding monitoring period that will be undertaken intermittently while hearing of grievance will begin 5<sup>th</sup> month and will last up to the end of the RAP implementation. Compensation should be paid after public disclosure of entitlement matrix prepared for this project by IA for the RHD through consultation with the PAPs. Livelihood and income restoration program that will start at 12<sup>th</sup> month of the design stage together with relocation of PAPs and will last for 16 months.

### CHAPTER 10. COST AND BUDGET

Indicative estimated cost of compensation and other assistance for three bridges is given in Table 10.1. Compensation and other assistance as per RAP policy will be paid by RHD through RAP Implementing Agency. Should additional costs emerge during the implementation phase of the RAP, RHD will make arrangements to allocate appropriate funds as required. The RHD can transfer fund from one budget category to other with maximum 10% of budget amount of each category. The estimated budget kept provision for 10% contingency of the total budget provision to meet unforeseen issues including GRC recommended cases. The total indicative estimated cost for implementation of the RAP is **BDT 84,768,648** (Eighty four million seven hundred sixty eight thousand six hundred forty eight) equivalent to USD 1,033,763 (1 USD=82 BDT as of July 2012) which includes replacement cost for structure, transfer grant, transition allowance for housing and business enterprises, wage income, livelihood and income restoration, etc. for affected residents and RHD structures.

As there is a position of Resettlement Expert in the Design Supervision Consultant, so the RAP does not keep budgetary provision for independent monitor. The resettlement budget includes capacity building of the EA for resettlement activities, operation cost of the RAP Implementing Agency and cost for IGA under Livelihood and Income Restoration Program (LIRP) is included in the budget. Besides, the RAP has kept provision of the budget for structure made by RHD at Kanchpur and Gumti bridge which are required to demolish due to the approach road or construction yard. The unit rates of the RHD structures are consolidated as same as other affected structures. The total budget for the RHD structures stands at **BDT 29,121,415** (USD 355,139) including replacement value, transfer grant and re-installation grants as shown in Annex 1. The project authority will pay this amount to the local road division as per RHD rule. The total estimated summary budget for affected and RHD employees and RHD owned structures is shown in the Table 10.1. The detailed budgets are enclosed in Annex 1

 Table 10.1
 Summary of Estimated Resettlement Budget for Three Bridges

|   | Category of Losses  | Kanchpur   | Meghna     | Gumti     | Total Budget |
|---|---|------------|------------|-----------|--------------|
|   |   | (BDT)      | (BDT)      | (BDT)     | (BDT)        |
| Α | Compensation for Structure  | 47,088,661 | 4,452,370  | 2,540,550 | 54,081,581   |
| В | Compensation for Trees  | 838,333    | 4,533,750  | 0         | 5,372,083    |
| С | Other Resettlement Benefits   | 5,249,603  | 519,062    | 607,480   | 6,376,145    |
| D | Training on IGA for eligible members of affected households and wage laborers | 560,000    | 8,000      | 72,000    | 640,000      |
| Е | Approximately 3 Trainers for 10 days each @BDT 3,000/day/person               | 90,000     | 0          | 0         | 90,000       |
| F | Executive Agency Capacity Building Training                                   | 1,000,000  | 500,000    | 500,000   | 2,000,000    |
| G | Operation cost for RAP Implementing Agency**                                  | 5,000,000  | 2,575,000  | 2,575,000 | 10,150,000   |
| Н | Operation cost for External<br>Monitoring Agency (EMA)                        | 500,000    | 300,000    | 200,000   | 1,000,000    |
| I | Contingency @ 10% of the Total A-H*   | 3,235,577  | 1,288,818  | 534,444   | 5,058,839    |
|   | Total   | 63,562,174 | 14,177,000 | 7,029,474 | 84,768,648   |
|   | Total (USD)   | 775,148    | 172,890    | 85,725    | 1,033,763    |

Note: USD 1 = BDT 82 as of July 2012

<sup>\*10%</sup> of the total budget excluding RHD compensation

<sup>\*\*</sup> including operation cost for GRC and PAVC

### CHAPTER 11. MONITORING AND EVALUATION

It is proposed to implement (1) internal monitoring by RHD and (2) external monitoring by an independent party such as local/international consultants, NGO or university hired by RHD.

The RAP implementation will be supervised by the Project Director (PD). On his behalf the day to day activities regarding the RAP implementation by the IA will be supervised by the RU with assistance of Construction Supervision Consultant (CSC). RU, with assistance of CSC will prepare and submit reports on monthly basis as a part of the progress report of whole project. The objectives of monitoring and evaluation are to:

- · Collect, analyze, report and use information about progress of resettlement;
- Ensure that inputs are being provided, procedures are being followed and outputs are monitored and verified;
- Ensure timely management action if there appears to be any failure in system due to management lapse; and
- Ensure necessary corrective measures at policy level, if it is seen that there is a failure in system due to flaw in the design i.e. wrong theory, hypothesis or assumption, to ensure necessary corrective action at policy level; and
- To build a benchmark database for the purpose of evaluation; both during course and exposit facto.

## 11.1 Internal Monitoring

Internal monitoring will be undertaken by the Project Implementation Unit (PIU) through Resettlement Unit (RU) with the assistance from Resettlement Expert and RAP Implementing Agency (IA).

Indicators of the internal monitoring will include but not limited to the followings;

## **Process Indicators:**

- · Setting up RU and placement of staff
- · Deployment of IA
- · Training of RU staff
- · Census, IOL, baseline socioeconomic survey
- Placement of funds for land acquisition and resettlement
- · Expenditure of IA
- · Deployment of independent monitoring agency
- · Procedure of identification of eligible affected persons

- Procedure of determining loss and entitlements
- Development of livelihood and income restoration program
- Preparation of disclosure instruments
- Disclosure and consultation events
- Formation of GRC, PAVC
- · Grievance redress procedures in-place and functioning
- · Level of public awareness on RAP policy and provisions
- · Cost of compensation collection by APs
- Monitoring reports submitted

## **Output Indicators**

- · Number of households relocated
- Number of households compensated and assisted
- · Number of businesses relocated
- Amount of compensation disbursed
- · Amount of resettlement benefits disbursed
- Number of eligible persons identified for training
- · Number of vulnerable households resettled
- · Number of vulnerable households brought under ILRP

## Impact Indicators

- · Changes in housing
- · Changes in water and sanitation
- · Changes in land holding
- Changes in occupation
- · Changes in income and expenditure
- Pace of income against change in expenditure
- Changes in attending health problems
- Nutrition of women and children
- · Gender balance and women empowerment
- · Changes in vulnerable households and women headed households.

Internal monitoring reports on RAP implementation will be included in the monthly Project Progress Report (PPR). The report of RU will contain:

- (i) Accomplishment to-date;
- (ii) Objectives attained and not attained during the per;

- (iii) Challenges encountered; and
- (iv) Targets for the next quarter.

The internal monitoring report will then be integrated by the PIU with the overall PPR submitted to JICA and/or other agencies associated with implementation. The CSC will assist PIU in preparing the overall PPR for JICA.

## 11.2 External Monitoring

External monitoring will be carried out periodically by an independent party such as local/international consultants, NGO or university for review and assessment of resettlement implementation, verification of the results of internal monitoring in the field and recommending adjustment in delivery mechanisms and procedures, as necessary. The external monitoring will be carried out on a quarterly basis. Further, mid-term and final evaluations will also be undertaken to assess the achievement of the RAP objectives against the performance impact indictors.<sup>1</sup>

**Table 11.1 External Monitoring Proposed** 

| Activities to be monitored | Basis for Indicators / Check List                | Possible Input and Output<br>Indicators |
|----------------------------|--|---|
| Basic information          | Location   | -                                       |
| on AP households           | Composition and structure                        |   |
|                            | • Ages   |   |
|                            | <ul> <li>Educational and skill levels</li> </ul> |   |
|                            | Gender of household head                         |   |
|                            | Ethnic group                                     |   |
|                            | • Access to health, education, utilities         |   |
|                            | and other social services •                      |   |
|                            | Housing type                                     |   |
|                            | • Land and other resource owning and             |   |
|                            | using patterns                                   |   |
|                            | Occupations and employment patterns              |   |
|                            | <ul> <li>Income sources and levels</li> </ul>    |   |
|                            | Agricultural production data (for rural)         |   |
|                            | households)                                      |   |
|                            | Participation in neighborhood or                 |   |
|                            | community groups                                 |   |
|                            | Value of all assets forming                      |   |
|                            | entitlements and resettlement                    |   |
| · ·                        | entitlements                                     | 0                                       |
| Compensation               | Was compensation as described in the             | Output Indicators:                      |
| Payments and               | RP paid on time?                                 | • The difference / delay                |
| entitlements               | Were other entitlements distributed on           | of resettlement                         |
|                            | time, relocation grants, loss of income          | activities compared to                  |
|                            | support?   | the original time frame.                |
|                            | • Were there additional costs AP's had           | • The difference of cost                |

<sup>&</sup>lt;sup>1</sup> Agencies involved in preparation of RAP are not eligible to be External Monitoring Agent except agencies responsible for socio-economic survey.

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|                                 | <ul><li>to bear?</li><li>Were adequate funds available to meet the costs of resettlement?</li></ul>  | of resettlement activities per PAHs compared to the original budget.   |
|---------------------------------|--|--|
| Restoration of living standards | <ul> <li>Have APs adopted the housing options developed?</li> <li>Have community networks been restored?</li> <li>Have APs achieved replacement of key social and cultural elements?</li> <li>Were compensation payments sufficient to replace lost assets?</li> <li>Was sufficient replacement land available of suitable standard?</li> <li>Did transfer and relocation payments cover these costs?</li> <li>Did income substitution allow for re-establishment of enterprises and production?</li> <li>Have vulnerable groups been provided with proper assistances?</li> <li>Are these effective and sustainable?</li> </ul> | •  |
| Restoration of<br>Livelihood    | <ul> <li>Were income restoration activities appropriate to restore or improve living standards?</li> <li>Were vulnerable groups adequately assisted to improve living standards?</li> <li>Are the livelihood schemes as described in the RAP being implemented satisfactorily?</li> </ul>  | Input Indicators:  Number and type of income and livelihood restoration trainings and other activities being implemented.  Outcome Indicator:  Number of PAHs who answer that their income have increased after relocation, compared to the total number of PAHs relocated |
| Levels of AP<br>Satisfaction    | <ul> <li>How much do APs know about resettlement procedures and entitlements?</li> <li>Do APs know their entitlements? Do they know if these have been met?</li> <li>How do APs assess the extent to which their own living standards and livelihoods have been restored?</li> <li>How much do APs know about grievance procedures and conflict resolution procedures? How many AP's/households were impoverished as a consequence of resettlement?</li> </ul>   | Outcome Indicators:  Number of the grievance redress procedures filed.  Number of the conflicts resolved, compared to the number of the grievance redress procedures filed   |

Monitoring of RP implementation will be based on desk review and field visits, meetings with

various ministries and local officials, and affected households. Separate meetings will be held with women and vulnerable households.

Between 9<sup>th</sup> month of the design stage till the end of the project, the EMA will conduct an evaluation study to determine whether or not the objectives of resettlement have been achieved.

The methodology for the evaluation study will be based mainly on a comparison of the socioeconomic status of severely affected households prior to and following displacement. If the findings of the study would indicate that the objectives of the RP have not been achieved, EMA will propose appropriate additional measures to meet the RP objectives.

# **Annex-1: Detailed Estimated Resettlement Budget (Indicative)**

# Kanchpur Bridge

| Sl. No. | Category of Loss                       | Quantity in sqf/No. | Rate in<br>BDT<br>(Refer to Table<br>5.1 of Main<br>Text) | Estimated Budget<br>in BDT |
|---------|--|---------------------|---|----------------------------|
| A       | Compensation for structure             |                     |   |                            |
| A.1     | Compensation for primary structure     |                     |   |                            |
| 1       | Semi Pucca (sft)                       | 7,089               | 970   | 6,876,330                  |
| 2       | Tin made                               | 21,113              | 525   | 11,084,325                 |
| 3       | Katcha                                 | 1,623               | 286   | 464,178                    |
| 4       | Thatched                               | 710                 | 135   | 95,850                     |
|         | Subtotal of A.1                        | 30,535              |   | 18,520,683                 |
| A.2     | Compensation Secondary Structure       |                     |   |                            |
| 1       | Pucca Latrine (No.)                    | 4                   | 20,835  | 83,340                     |
| 2       | Slab Latrine (No.)                     | 28                  | 3,738   | 104,664                    |
| 3       | Tube well (No.)                        | 8                   | 17,532  | 140,256                    |
| 4       | Boundary wall(rft)                     | 112                 | 660   | 73,920                     |
| 5       | Water Pump (No.)                       | 1                   | 5,000   | 5,000                      |
| 6       | Bill Bord(sft)                         | 2                   | 200,000   | 400,000                    |
|         | Sub-total A-2                          |                     |   | 807,180                    |
|         | Total of Structure (A-1 + A-2)         |                     |   | 19,327,863                 |
| В       | Compensation for Trees                 |                     |   |                            |
| 1       | Large                                  | 9                   | 6,035   | 54,315                     |
| 2       | Medium                                 | 154                 | 4,032   | 620,928                    |
| 3       | Small                                  | 102                 | 1,515   | 154,530                    |
| 4       | Plant                                  | 80                  | 107   | 8,560                      |
|         | Sub-total B                            |                     |   | 838,333                    |
| C       | Other Resettlement Benfits             |                     |   |                            |
| 1       | Transfer Grant @ BDT 7 per sft         | 30,535              | 7   | 213,745                    |
| 2       | Compensation for fruits @30% of timber | 26,100              | 0.3   | 7,830                      |
|         | value                                  |                     |   |                            |
| 3       | Dislocation Allowance for fish pond @  | 120                 | 300   | 36,000                     |
|         | BDT 300/ dec.                          | dec.                |   |                            |
|         | ·                                      |                     |   |                            |

| 4  | Business restoration grant as 3 (three) months income (squatters and tenants businessmen) @ BDT 8,000/month   | 33  | 24,000 | 792,000    |
|----|---|-----|--------|------------|
| 5  | One time Moving Assistance for Tenants businessmen @ BDT 5,000  | 4   | 5,000  | 20,000     |
| 6  | Cash grant to the affected employees/wage earners equivalent to 90 days wage X BDT 250/per day  | 26  | 22,500 | 585,000    |
| 7  | Transition allowance to recover 3 months rent (only for renter) @ BDT 2,500/per month   | 102 | 7,500  | 765,000    |
| 8  | Rental allowance for 3 months @ BDT 2,500/- per month (only for rentee)   | 102 | 7,500  | 765,000    |
| 9  | Shifting assistance for Residence<br>Household (Both Squtter and Tenants) @<br>BDT 5,000  | 201 | 5,000  | 1,005,000  |
| 10 | Special assistance for vulnerable households @ BDT 10,000/person  | 44  | 10,000 | 440,000    |
| 11 | One time cash grant to affected female headed households @ BDT 12,000   | 23  | 12,000 | 276,000    |
| 12 | Utility re-connection assistance @BDT 2,000   | 67  | 2,000  | 134,000    |
|    | Sub-total C   |     |        | 5,039,575  |
|    | Sub-total (A-C)   |     |        | 25,205,771 |
| D  | Cost of training on IGA under LIRP for<br>eligible members of affected households<br>and wage laborers (including cost of<br>materials and perdiem of trainees) | 70  | 8,000  | 560,000    |
| E  | Approximately 3 trainers for 10 days each @BDT 3,000/day/person   | 3   | 30,000 | 90,000     |
| F  | Executive agency capacity building tTraining  | LS  |        | 1,000,000  |
| G  | Operation cost for RAP Implementing Agency  |     |        | 5,000,000  |
|    | Operation cost for External Monitoring Agency (EMA)   | LS  |        | 500,000    |
|    | Total (A-G)   |     |        | 32,355,771 |
| Н  | Contingency @ 10% of the Total A-G  |     |        | 3,235,577  |
|    | Grand Total = (Total + Contingency)   |     |        | 35,591,348 |

# Meghna Bridge

| Sl. No. | Category of loss  | Quantity in sqf/No. | Rate in<br>BDT | Estimated     |
|---------|---|---------------------|----------------|---------------|
| A       | Compensation for structure  | sqi/ivo.            | DD1            | budget in BDT |
| A.1     | Compensation for primary structure  |                     |                |               |
| 1       | Semi Pucca (sft)  | 988                 | 970            | 958,360       |
| 2       | Tin made  | 4,732               | 525            | 2,484,300     |
| 3       | Katcha  | 0                   | 286            | 0             |
| 4       | Thatched  | 146                 | 135            | 19,710        |
|         | Subtotal of A.1   | 5,866               |                | 3,462,370     |
| A.2     | Compensation Secondary Structure  | Ź                   |                | , ,           |
| 1       | Pucca Latrine (No.)   | 0                   | 20,835         | 0             |
| 2       | Slab Latrine (No.)  | 0                   | 3,738          | 0             |
| 3       | Tube well (No.)   | 0                   | 17,532         | 0             |
| 4       | Boundary wall(rft) 5" wall  | 1,500               | 660            | 990,000       |
| 5       | Water Pump (No.)  | 0                   | 5,000          | 0             |
| 6       | Bill Bord(sft)  | 0                   | 200,000        | 0             |
|         | Sub-total A-2   |                     |                | 990,000       |
|         | Total of Structure (A-1 + A-2)  |                     |                | 4,452,370     |
| В       | Compensation for Trees  |                     |                |               |
| 1       | Large   | 80                  | 6,035          | 482,800       |
| 2       | Medium  | 600                 | 4,032          | 2,419,200     |
| 3       | Small   | 1,070               | 1,515          | 1,621,050     |
| 4       | Plant   | 100                 | 107            | 10,700        |
|         | Sub-total B   |                     |                | 4,533,750     |
| С       | Other Resettlement Benfits  |                     |                |               |
| 1       | Transfer Grant @ BDT 7 per sft  | 5,866               | 7              | 41,062        |
| 2       | Compensation for fruits @30% of timber  | 30,000              | 0.3            | 9,000         |
|         | value   |                     |                |               |
| 3       | Dislocation allowance for fish pond @ BDT   | 0                   | 300            | 0             |
|         | 300/ dec.   | 40                  | 24000          | 400.000       |
| 4       | Business restoration grant as 3 (three) months income (squatters and tenants businessmen) @ BDT 8,000/month | 18                  | 24000          | 432,000       |

| 5  | One time moving assistance for tenants businessmen @ BDT 5,000  | 1  | 5,000  | 5,000      |
|----|---|----|--------|------------|
| 6  | Cash grant to the affected employees/wage earners equivalent to 90 days wage X BDT 250/per day  | 0  | 22,500 | 0          |
| 7  | Transition allowance to recover 3 months rent (only for renter) @ BDT 2,500/per month   | 1  | 7,500  | 7,500      |
| 8  | Rental allowance for 3 months @ BDT 2,500/month (for only tenants)  | 1  | 7,500  | 7,500      |
| 9  | Shifting assistance for residence household (Both Squtter and Tenants) @ BDT 5,000  | 1  | 5,000  | 5,000      |
| 10 | Special assistance for vulnerable households @ BDT 10,000/person  | 1  | 10,000 | 10,000     |
| 11 | One time cash grant to affected Female headed households @ BDT 12,000   | 0  | 12,000 | 0          |
| 12 | Utility reconnection assistance @BDT 2,000  | 1  | 2,000  | 2,000      |
|    | Sub-total C   |    |        | 519,062    |
|    | Sub-total (A-C)   |    |        | 9,505,182  |
| D  | Training on IGA under LIRP for eligible members of affected households and wage laborers (including cost of materials and honorarium of trainers) | 1  | 8,000  | 8,000      |
| E  | Approximately 3 trainers for 10 days each @BDT 3,000/day/person   | 0  |        | 0          |
| F  | Executive agency capacity building training   | LS |        | 500,000    |
| G  | Operation cost for RAP Implementing Agency  |    |        | 2,575,000  |
| Н  | Operation cost for External Monitoring Agency (EMA)   | LS |        | 300,000    |
|    | Total (A-H)   |    |        | 12,888,182 |
| I  | Contingency @ 10% of the Total A-H  |    |        | 1,288,818  |
|    | Grand Total = (Total + Contingency)   |    |        | 14,177,000 |
|    |   |    |        |            |

# Gumti Bridge

| Sl. No. | Category of loss   | Quantity in sqf/No. | Rate in<br>BDT | Estimated budget |
|---------|--|---------------------|----------------|------------------|
|         |  |                     |                | in BDT           |
| A       | Compensation for structure   |                     |                |                  |
| A.1     | Compensation for primary structure   | 205                 | 070            | 100.050          |
| 1       | Semi Pucca (sft)   | 205                 | 970            | 198,850          |
| 2       | Tin made   | 1,903               | 525            | 999,075          |
| 3       | Katcha   | 476                 | 286            | 136,136          |
| 4       | Thatched   | 49                  | 135            | 6,615            |
|         | Subtotal of A.1  | 2,633               |                | 1,340,676        |
| A.2     | Compensation Secondary Structure   |                     |                |                  |
| 1       | Pucca Latrine (No.)  | 0                   | 20,835         | 0                |
| 2       | Slab Latrine (No.)   | 1                   | 3,738          | 3,738            |
| 3       | Tube well (No.)  | 3                   | 17,532         | 52,596           |
| 4       | Boundary wall(rft)   | 0                   | 660            | 0                |
| 5       | Water Pump (No.)   | 0                   | 5,000          | 0                |
| 6       | Bill Bord(sft)   | 0                   | 200,000        | 0                |
|         | Sub-total A-2  |                     |                | 56,334           |
|         | Total of Structure (A-1 + A-2)   |                     |                | 1,397,010        |
| В       | Compensation for Trees   |                     |                |                  |
| 1       | Medium   | 0                   | 4,032          | 0                |
| 2       | Small  | 0                   | 1,515          | 0                |
| 3       | Plant  | 0                   | 107            | 0                |
|         | Sub-total B  |                     |                | 0                |
| С       | Other Resettlement Benfits   |                     |                |                  |
| 1       | Transfer Grant @ BDT 7 per sft   | 2,633               | 7              | 18,431           |
| 2       | Compensation for fruits @30% of timber value   | 0                   | 0.3            | 0                |
| 3       | Dislocation Allowance for fish pond @ BDT 300/ dec.  | 0                   | 300            | 0                |
| 4       | Business restoration grant as 3 (three) months income (squatters and tenants businessmen)  @ BDT 8,000/month | 18                  | 24,000         | 432,000          |
| 5       | One time moving assistance for tenants businessmen @ BDT 5,000   | 0                   | 5,000          | 0                |

| 6           | Cook and to the offerted and leaves/was   | 2       | 22.500 | 45,000                                       |
|-------------|---|---------|--------|--|
| 0           | Cash grant to the affected employees/wage   | 2       | 22,500 | 45,000                                       |
|             | earners equivalent to 90 days wage X BDT  |         |        |  |
|             | 250/per day   |         |        |  |
| 7           | Transition allowance to recover 3 months  | 0       | 7,500  | 0  |
|             | rent (only for renter) @ BDT 2,500/month  |         |        |  |
| 8           | Rental allowance for 3 months @ BDT   | 0       | 7,500  | 0  |
|             | 2,500/month (for only tenants)  |         |        |  |
| 9           | Shifting assistance for residence household   | 3       | 5,000  | 15,000                                       |
|             | (both squtter and tenants) @ BDT 5,000  |         |        |  |
| 10          | Special assistance for vulnerable households  | 7       | 10,000 | 70,000                                       |
|             | @ BDT 10,000/person   |         |        |  |
| 11          | One time cash grant to affected female  | 1       | 12,000 | 12,000                                       |
|             | headed households @ BDT 12,000  |         |        |  |
| 12          | Utility reconnection assistance @BDT 2,000  | 4       | 2,000  | 8,000  |
|             | Sub-total C   |         |        | 600,431                                      |
|             | Sub-total (A-C)   |         |        | 1,997,441                                    |
| D           | Training on IGA under LIRP for eligible   | 9       | 8,000  | 72,000                                       |
|             | members of affected households and wage   |         |        |  |
|             | laborers (including cost of materials and   |         |        |  |
|             |   |         |        |  |
|             | honorarium of trainers)   |         |        |  |
| E           | honorarium of trainers)  Approximately 3 trainers for 10 days each  | 0       | 0      | 0  |
| E           | · ·   | 0       | 0      | 0  |
| E<br>F      | Approximately 3 trainers for 10 days each   | 0<br>LS | 0      | 500,000                                      |
|             | Approximately 3 trainers for 10 days each @BDT 3,000/day/person   |         | 0      |  |
| F           | Approximately 3 trainers for 10 days each @BDT 3,000/day/person  Executive agency capacity building training  |         | 0      | 500,000                                      |
| F           | Approximately 3 trainers for 10 days each  @BDT 3,000/day/person  Executive agency capacity building training  Operation cost for RAP Implementing  |         | 0      | 500,000                                      |
| F<br>G      | Approximately 3 trainers for 10 days each  @BDT 3,000/day/person  Executive agency capacity building training  Operation cost for RAP Implementing  Agency  | LS      | 0      | 500,000 2,575,000                            |
| F<br>G      | Approximately 3 trainers for 10 days each  @BDT 3,000/day/person  Executive agency capacity building training  Operation cost for RAP Implementing  Agency  Operation cost for External Monitoring                          | LS      | 0      | 500,000 2,575,000                            |
| F<br>G      | Approximately 3 trainers for 10 days each @BDT 3,000/day/person  Executive agency capacity building training  Operation cost for RAP Implementing Agency  Operation cost for External Monitoring Agency (EMA)               | LS      | 0      | 500,000<br>2,575,000<br>200,000              |
| F<br>G<br>H | Approximately 3 trainers for 10 days each  @BDT 3,000/day/person  Executive agency capacity building training  Operation cost for RAP Implementing Agency  Operation cost for External Monitoring Agency (EMA)  Total (A-H) | LS      | 0      | 500,000<br>2,575,000<br>200,000<br>5,344,441 |

# **Budget of RHD Structure for Kanchpur Bridge**

| Sl. No. | Category of loss                   | Quantity in sqf/No. | Rate in BDT | Estimated budget in BDT |
|---------|------------------------------------|---------------------|-------------|-------------------------|
| A       | Compensation for structure         |                     |             |                         |
| A.1     | Compensation for primary structure |                     |             |                         |
| 1       | Semi Pucca (sft)                   | 25,582              | 970         | 24,814,540              |
| 2       | Tin made                           | 4,422               | 525         | 2,321,550               |
|         | Subtotal of A.1                    | 30,004              |             | 27,136,090              |
| A.2     | Compensation Secondary Structure   |                     |             |                         |
| 1       | Pucca Latrine (No.)                | 8                   | 20,835      | 166,680                 |
| 2       | Slab Latrine (No.)                 | 6                   | 3,738       | 22,428                  |
| 3       | Boundary wall (Tin made) (rft)     | 1,520               | 280         | 425,600                 |
| 4       | Water Pump (No.)                   | 2                   | 5,000       | 10,000                  |
|         | Sub-total A-2                      |                     |             | 624,708                 |
|         | Total of Structure (A-1 + A-2)     |                     |             | 27,760,798              |
| В       | Other Resettlement Benfits         |                     |             |                         |
| 1       | Transfer Grant @ BDT 7 per sft     | 30,004              | 7           | 210,028                 |
|         | Sub-total B                        |                     |             | 210,028                 |
|         | Grand Total = (A + B)              |                     |             | 27,970,826              |

# **Budget of RHD Structure for Gumti Bridge**

| Sl. No. | Category of loss                   | Quantity in sft/No. | Rate in BDT | Estimated budget in BDT |
|---------|------------------------------------|---------------------|-------------|-------------------------|
| A       | Compensation for structure         |                     |             |                         |
| A.1     | Compensation for primary structure |                     |             |                         |
| 1       | Pucca(sft)                         | 575                 | 1,260       | 724,500                 |
| 2       | Semi Pucca (sft)                   | 432                 | 970         | 419,040                 |
|         | Subtotal of A.1                    | 1,007               |             | 1,143,500               |
| A.2     | Compensation Secondary Structure   |                     |             |                         |
| 1       | Pucca Latrine (No.)                | 0                   | 20,835      | 0                       |
| 2       | Slab Latrine (No.)                 | 0                   | 3,738       | 0                       |
| 3       | Tube well (No.)                    | 0                   | 17,532      | 0                       |
| 4       | Boundary wall (Tin made) (rft)     | 0                   | 280         | 0                       |
| 5       | Water Pump (No.)                   | 0                   | 5,000       | 0                       |
|         | Sub-total A-2                      | 1,007               |             | 0                       |
|         | Total of Structure (A-1 + A-2)     |                     |             | 1,143,500               |
| В       | Other Resettlement Benfits         |                     |             |                         |
| 1       | Transfer Grant @ BDT 7 per sft     | 1,007               | 7           | 7,049                   |
|         | Sub-total B                        |                     |             | 7,049                   |
|         | Grand Total = (A + B)              |                     |             | 1,150,589               |

## **Annex-2: RAP Implementation Monitoring Format**

|    | <b>Naisse 1</b> 4 <b>2</b> 6 | Item   |           | · · · · · · · · · · · · · · · · · · · | Distribution |             |                  | _     | ss in q | uantity | Cumula   | tive Progr | ess in % | Progress | during the | e month  |
|----|------------------------------|--------|-----------|---------------------------------------|--------------|-------------|------------------|-------|---------|---------|----------|------------|----------|----------|------------|----------|
| IN | Aajor items of action        | weight | 7         | Specific action steps (sub-items)     | of Sub-Item  | Unit        | Planned<br>Total | up to | till    | during  | Sub-     | Item       | Project  | Sub-Item | Item       | Project  |
|    | uction                       | (%)    |           | (Sub Items)                           | weight (%)   |             | 10001            | the   | last    | the     | Item     | Progress   | Progress | Progress | Progress   | Progress |
|    |                              |        |           |                                       |              |             |                  | month | month   | month   | Progress |            |          |          |            |          |
| 1) | Recruitment,                 |        | 1.        | Deployment of                         | 30           | Man-month   |                  |       |         |         |          |            |          |          |            |          |
|    | training and                 | 5      |           | managerial staff                      | 30           | ivian-monui |                  |       |         |         |          |            |          |          |            |          |
|    | deployment                   |        | 2.        | Deployment of                         | 20           | M 41-       |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        | resettlem | resettlement workers                  | 30           | Man-month   |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        | 3.        | Training and                          | 40           | No. of      |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        |           | mobilization                          | 40           | RWs         |                  |       |         |         |          |            |          |          |            |          |
| 2) | Adopting the                 | 5      | 1.        | Review of RP                          | 25           | %           |                  |       |         |         |          |            |          |          |            |          |
|    | Land                         |        | 2.        | Devise corrections to                 | 2.5          | 0/          |                  |       |         |         |          |            |          |          |            |          |
|    | Resettlement                 |        |           | the RP                                | 25           | %           |                  |       |         |         |          |            |          |          |            |          |
|    | Plan                         |        | 3.        | Submission of                         | 2.5          | 0/          |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        |           | comments to RHD                       | 25           | %           |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        | 4.        | Approval of RP with                   | 2.5          | 0.4         |                  |       |         |         |          |            |          |          |            |          |
|    |                              |        |           | corrections                           | 25           | %           |                  |       |         |         |          |            |          |          |            |          |
| 3) | Socioeconomic                |        | 1.        | Designing the                         | 1.5          | 0.4         |                  |       |         |         |          |            |          |          |            |          |
|    | Survey                       | 10     |           | Surveys                               | 15           | %           |                  |       |         |         |          |            |          |          |            |          |

|    | No.: : 4              | Item          |   | · · · · · · · · · · · · · · · · · · · | Distribution              |       |                  |              | ss in q | uantity                | Cumula                   | tive Progr | ress in % | Progress             | during th | e month             |
|----|-----------------------|---------------|---|---------------------------------------|---------------------------|-------|------------------|--------------|---------|------------------------|--------------------------|------------|-----------|----------------------|-----------|---------------------|
| ľ  | Aajor items of action | weight<br>(%) | 2 | Specific action steps<br>(sub-items)  | of Sub-Item<br>weight (%) | Unit  | Planned<br>Total | up to<br>the | last    | during<br>the<br>month | Sub-<br>Item<br>Progress |            |           | Sub-Item<br>Progress |           | Project<br>Progress |
|    |                       |               |   | Field Survey and collection of data   | 35                        | %     |                  |              |         |                        | 11091033                 |            |           |                      |           |                     |
|    |                       |               |   | Computerization of field data         | 25                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
|    |                       |               |   | Data analysis and report generation   | 25                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
| 4) | Valuation of          |               | 1 | Formation of PVAT                     | 20                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
|    | affected<br>property  | 10            |   | Planning for<br>valuation             | 20                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
|    |                       | 10            |   | Communication and collection of data  | 45                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
|    |                       |               | 4 | Recommendation                        | 15                        | %     |                  |              |         |                        |                          |            |           |                      |           |                     |
| 5) | Information campaign  | 6             |   | Distribute information brochure       | 40                        | EP    |                  |              |         |                        |                          |            |           |                      |           |                     |
|    |                       |               | 2 | Personal contacts                     | 30                        | EP    |                  |              |         |                        |                          |            |           |                      |           |                     |
|    |                       |               |   | Public consultation<br>meetings/FGD   | 30                        | Times |                  |              |         |                        |                          |            |           |                      |           |                     |

| 7  | Major items of    | Item   |   | Specific action steps | Distribution |      | Planned |       | ess in q | uantity | Cumula   | tive Progr | ess in % | Progress | during th | e month  |
|----|-------------------|--------|---|-----------------------|--------------|------|---------|-------|----------|---------|----------|------------|----------|----------|-----------|----------|
| 1  | action            | weight |   | (sub-items)           | of Sub-Item  | Unit | Total   | up to | till     | during  | Sub-     | Item       | Project  | Sub-Item | Item      | Project  |
|    | <b></b>           | (%)    |   | (34.3 100.113)        | weight (%)   |      | 20002   | the   | last     | the     | Item     | Progress   | Progress | Progress | Progress  | Progress |
|    | _                 |        |   |                       |              |      |         | month | month    | month   | Progress |            |          |          |           |          |
| 6) | Relocation of     | 5      | 1 | Motivate EPs          | 40           | EP   |         |       |          |         |          |            |          |          |           |          |
|    | Project Affected  |        | 2 | Payment of Transfer   | 60           | EP   |         |       |          |         |          |            |          |          |           |          |
|    | Persons           |        |   | Grant                 | 60           | EP   |         |       |          |         |          |            |          |          |           |          |
| 7) | Identification of |        | 1 | Assigning ID          |              |      |         |       |          |         |          |            |          |          |           |          |
|    | Eps               |        |   | numbers               | 25           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   | 12     |   |                       |              |      |         |       |          |         |          |            |          |          |           |          |
|    |                   |        | 2 | Photographing of EPs  | 25           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        | 3 | Issuance of ID cards  | 30           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        | 4 | Distribution of ID    | 20           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        |   | cards                 | 20           | EP   |         |       |          |         |          |            |          |          |           |          |
| 8) | Grievance         |        | 1 | Members given in      | 1.5          | Nos. |         |       |          |         |          |            |          |          |           |          |
|    | Redress           | 5      |   | GRCs                  | 15           | NOS. |         |       |          |         |          |            |          |          |           |          |
|    |                   |        | 2 | Receiving complaints  | 25           | ED   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        |   | / claims from EPs     | 35           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        | 3 | Disposing of          | 25           | EP   |         |       |          |         |          |            |          |          |           |          |
|    |                   |        |   | complaints            | 35           | EP   |         |       |          |         |          |            |          |          |           |          |

| A.J      | Item                                       |   | S   | Distribution   | Pla  | Planned  | Ü   | ss in q  | uantity  | Cumula   | tive Progr  | ress in %  | Progress  | during th  | e month  |
|----------|--|---|---|--|--|--|---|--|--|--|---|--|---|--|--|
| action   | Ü  | 1   | (sub-items)   |  | Unit   | Total  | up to   |  | Ü  |  | Item  | _  |   |  | Project  |
|          | (%)  |   |   | weight (%)   |  |  |   |  |  |  |   | Progress   | Progress  | Progress   | Progress   |
|          |  | 4   | Assist EPs in   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | replacement   | 15   | ИИc  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | structures and other  | 13   | 11115  |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | Finalization of   | 10   | %  |  |   |  |  |  |   |  |   |  |  |
| _        | 10   | r   | _   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  | 2   |   | 10   | %  |  |   |  |  |  |   |  |   |  |  |
| services |  |   |   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | 1   | 10   | %  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | -   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   | 10   | %  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | · · · · · · · · · · · · · · · · · · ·   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   | 1   | 10   | %  |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   | 10   | EP   |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   |  |  |  |   |  |  |  |   |  |   |  |  |
|          |  |   |   | 20   | %  |  |   |  |  |  |   |  |   |  |  |
|          | Information Management/ Technical services | Information Management/ Technical  Weight (%) | Information Management/ Technical services  Major items of weight (%)  4  10  2  5  6 | Major items of action  weight (%)  Assist EPs in replacement structures and other financial assistance.  Information  Management/ Technical  Meight (sub-items)  Assist EPs in replacement structures and other financial assistance.  I Finalization of resettlement budget  Preparation of | Major items of action  weight (%)  4 Assist EPs in replacement structures and other financial assistance.  Information Management/ Technical services  10 Preparation of information brochure  3 Preparation of operation manual 4 Designing ID card, EP file, EC 5 Develop ID numbering system 6 Computerization of award data 7 Develop software for 2 Assist EPs in replacement weight (%)  10 In | Major items of action  Weight (%)  4 Assist EPs in replacement structures and other financial assistance.  Information Management/ Technical services  10 Finalization of resettlement budget  2 Preparation of information brochure  3 Preparation of operation manual  4 Designing ID card, EP file, EC  5 Develop ID numbering system  6 Computerization of award data  7 Develop software for  20 Weight (%)  Unit Weight (%)  Unit Weight (%)  HHs  10 %  6 Sub-Item weight (%) | Major items of action    Specific action steps (sub-items)   Specific action steps (sub-items)   Distribution of Sub-Item weight (%)   Unit   Planned Total | Major items of action    Specific action steps (sub-items) | Major items of action    Major items of action   Specific action steps (sub-items)   Unit with the last month   Information   Informat | Major items of action    Major items of action   Specific action steps (sub-items)   Specific action steps (sub-items)   Of Sub-Item weight (%)   Wint   Win | Major items of action  Major items of action  Major items of action  Management/ Technical services  Information  Management/ Technical services  Information brochure  3 Preparation of operation manual  4 Designing ID card, EP file, EC  5 Develop ID numbering system  6 Computerization of award data  7 Develop software for  Distribution of Sub-Item weight (%)  Init with a planted Total  Planted Total  Unit with least the last the properties of the last the month month month month month month month month progress  HHs HHs  Finalization of 10 %  10 EP  20 %  10 EP | Major items of action    Computer   Computer | Major items of action  Specific action steps (sub-items)  Specific action steps (sub-items)  Assist EPs in replacement structures and other financial assistance.  Information Management/ Technical services  Information of poperation of poperation manual  A Designing ID card, EP file, EC  Source of Computerization of award data  Total  Total  Planned Total  Unit view planed the file last the last | Major items of action    Item weight (%)   Specific action steps (sub-items)   Distribution of Sub-Item weight (%)   Unit weight (%)   Uni | Major items of action    Item weight action   Specific action steps (sub-items)   Sub-item weight (%)   Sub-it |

|    | Iajor items of                                  | Item   |   | In acific action atoms                | Distribution | Plan  | Dlownod |              | ss in q       | uantity | Cumula           | tive Progr | ess in % | Progress | during th | e month  |
|----|---|--------|---|---------------------------------------|--------------|-------|---------|--------------|---------------|---------|------------------|------------|----------|----------|-----------|----------|
| 10 | action  | weight |   | Specific action steps<br>(sub-items)  | of Sub-Item  | Unit  | Total   | up to        |               | during  |                  | Item       |          | Sub-Item |           | Project  |
|    |   | (%)    |   |                                       | weight (%)   |       |         | the<br>month | last<br>month | the     | Item<br>Progress |            | Progress | Progress | Progress  | Progress |
| Г  |   |        | 8 | Develop software for computerized MIS | 20           | %     |         |              |               |         | Tiogress         |            |          |          |           |          |
|    | Resettlement of<br>Project Affected<br>Persons. | 15     |   | Preparation of EP files and ECs       | 20           | Sets  |         |              |               |         |                  |            |          |          |           |          |
|    |   |        | 2 | Opening bank account by the EPs       | 20           | Nos.  |         |              |               |         |                  |            |          |          |           |          |
|    |   |        |   | Organize payment of benefits from RHD | 45           | EP    |         |              |               |         |                  |            |          |          |           |          |
|    |   |        |   | Assist vulnerable EPs in resettlement | 15           | Nos.  |         |              |               |         |                  |            |          |          |           |          |
|    | Supervision and<br>Management                   | 5      | 1 | Supply of manpower and logistics      | 25           | mms   |         |              |               |         |                  |            |          |          |           |          |
|    |   |        | 2 | Liaison with RHD and other agencies   | 15           | Times |         |              |               |         |                  |            |          |          |           |          |
|    |   |        | 3 | Monitoring through CMIS               | 25           | Month |         |              |               |         |                  |            |          |          |           |          |

|   |                          | Item       |   | Spacific action stans                     | Distribution |       | Planned | d            |      |                        | Cumula | tive Progr | ress in % | Progress             | during th | e month             |
|---|--------------------------|------------|---|---|--------------|-------|---------|--------------|------|------------------------|--------|------------|-----------|----------------------|-----------|---------------------|
| N | Aajor items of action    | weight (%) |   | Specific action steps<br>(sub-items)      | of Sub-Item  | Unit  | Total   | up to<br>the | last | during<br>the<br>month |        |            | Ů         | Sub-Item<br>Progress |           | Project<br>Progress |
|   |                          |            |   | Administrative<br>management              | 35           | Month |         |              |      |                        |        |            |           |                      |           |                     |
| ĺ | Performance<br>Reporting | 5          | 2 | Inception report  Monthly progress report | 15<br>50     | Nos.  |         |              |      |                        |        |            |           |                      |           |                     |
|   |                          |            |   | Draft final report<br>Final report        | 20<br>15     | Nos.  |         |              |      |                        |        |            |           |                      |           |                     |

# List of Residential Household

# Kanchpur

| SI. | Household | Name Of The    | F/H Name | Village  | Thana     | District   | Occupation           |
|-----|-----------|----------------|----------|----------|-----------|------------|----------------------|
| No. | ID        | Household Head |          |          |           |            |                      |
| 1   | 12        |                |          | Senpara  | Sonargaon | Naraynganj | Rikshaw/Van          |
|     |           |                |          |          |           |            | polar                |
| 2   | 13        |                |          | Senpara  | Sonargaon | Naraynganj | Business             |
| 3   | 14        |                |          | Senpara  | Sonargaon | Naraynganj | Day labor            |
| 4   | 15        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 5   | 16        |                |          | Senpara  | Sonargaon | Naraynganj | Business             |
| 6   | 17        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 7   | 19        |                |          | Senpara  | Sonargaon | Naraynganj | Old People           |
| 8   | 21        |                |          | Senpara  | Sonargaon | Naraynganj | Beggar               |
| 9   | 22        |                |          | Senpara  | Sonargaon | Naraynganj | Day labor            |
| 10  | 23        |                |          | Senpara  | Sonargaon | Naraynganj | Maid                 |
|     |           |                |          |          |           |            | Servent              |
| 11  | 24        |                |          | Senpara  | Sonargaon | Naraynganj | Begger               |
| 12  | 26        |                |          | Senpara  | Sonargaon | Naraynganj | Business             |
| 13  | 27        |                |          | Senpara  | Sonargaon | Naraynganj | Rikshaw/Van<br>Polar |
| 14  | 28        |                |          | Senpara  | Sonargaon | Naraynganj | Maid<br>Servent      |
| 15  | 29        |                |          | Senpara  | Sonargaon | Naraynganj | Day labor            |
| 16  | 30        |                |          | Senpara  | Sonargaon | Naraynganj | Rikshaw/Van          |
| 10  |           |                |          | Selipara | Jonargaon | , - ,      | Polar                |
| 17  | 31        |                |          | Senpara  | Sonargaon | Naraynganj | Begger               |
| 18  | 32        |                |          | Senpara  | Sonargaon | Naraynganj | Business             |
| 19  | 34        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 20  | 35        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 21  | 36        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 22  | 37        |                |          | Senpara  | Sonargaon | Naraynganj | Business             |
| 23  | 38        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 24  | 39        |                |          | Senpara  | Sonargaon | Naraynganj | Service              |
| 25  | 40        |                |          | Senpara  | Sonargaon | Naraynganj | Driver               |
| 26  | 41        |                |          | Senpara  | Sonargaon | Naraynganj | Rikshaw/Van<br>Polar |
| 27  | 42        |                |          | Senpara  | Sonargaon | Naraynganj | Rikshaw/Van<br>Polar |
| 28  | 43        |                |          | Senpara  | Sonargaon | Naraynganj | Day labor            |
| 29  | 44        |                |          | Senpara  | Sonargaon | Naraynganj | Retied               |
| 30  | 45        |                |          | Senpara  | Sonargaon | Naraynganj | Day labor            |

| SI. | Household | Name Of The    | F/H Name | Village | Thana     | District   | Occupation           |
|-----|-----------|----------------|----------|---------|-----------|------------|----------------------|
| No. | ID        | Household Head |          |         |           |            |                      |
| 31  | 46        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 32  | 47        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 33  | 48        |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 34  | 49        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 35  | 50        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 36  | 51        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 37  | 52        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 38  | 53        |                |          | Behker  | Sonargaon | Naraynganj | Agriculture          |
| 39  | 54        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 40  | 55        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 41  | 56        |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 42  | 57        |                |          | Senpara | Sonargaon | Naraynganj | Rikshaw/Van<br>Polar |
| 43  | 58        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 44  | 59        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 45  | 60        |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 46  | 61        |                |          | Senpara | Sonargaon | Naraynganj | Rikshaw/Van<br>Polar |
| 47  | 62        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 48  | 63        |                |          | Senpara | Sonargaon | Naraynganj | Housewife            |
| 49  | 65        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 50  | 66        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 51  | 67        |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 52  | 68        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 53  | 70        |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 54  | 71        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 55  | 72        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 56  | 75        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 57  | 76        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 58  | 77        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 59  | 78        |                |          | Senpara | Sonargaon | Naraynganj | Housewife            |
| 60  | 79        |                |          | Senpara | Sonargaon | Naraynganj | Driver               |
| 61  | 81        |                |          | Senpara | Sonargaon | Naraynganj | Driver               |
| 62  | 82        |                |          | Senpara | Sonargaon | Naraynganj | Housewife            |
| 63  | 83        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 64  | 84        |                |          | Senpara | Sonargaon | Naraynganj | Day labor            |
| 65  | 87        |                |          | Senpara | Sonargaon | Naraynganj | Service              |
| 66  | 100       |                |          | Senpara | Sonargaon | Naraynganj | Business             |
| 67  | 102       |                |          | Senpara | Sonargaon | Naraynganj | Service              |

| SI. | Household | Name Of The    | F/H Name | Village    | Thana      | District   | Occupation |
|-----|-----------|----------------|----------|------------|------------|------------|------------|
| No. | ID        | Household Head |          |            |            |            |            |
| 68  | 103       |                |          | Senpara    | Sonargaon  | Naraynganj | Service    |
| 69  | 104       |                |          | Senpara    | Sonargaon  | Naraynganj | Housewife  |
| 70  | 105       |                |          | Senpara    | Sonargaon  | Naraynganj | Housewife  |
| 71  | 106       |                |          | Senpara    | Sonargaon  | Naraynganj | Service    |
| 72  | 107       |                |          | Senpara    | Sonargaon  | Naraynganj | Service    |
| 73  | 108       |                |          | Senpara    | Sonargaon  | Naraynganj | Housewife  |
| 74  | 109       |                |          | Asharichor | Debidder   | Kumilla    | Service    |
| 75  | 110       |                |          | Pirojpur   | Debidder   | Kumilla    | Service    |
| 76  | 111       |                |          | Senpara    | Sonargaon  | Naraynganj | Service    |
| 77  | 125       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 78  | 126       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 79  | 127       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 80  | 128       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 81  | 129       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 82  | 130       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 83  | 131       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 84  | 132       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 85  | 133       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 86  | 134       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 87  | 135       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 88  | 136       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 89  | 137       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 90  | 138       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 91  | 139       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 92  | 140       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 93  | 141       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 94  | 142       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 95  | 143       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 96  | 144       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 97  | 145       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 98  | 147       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 99  | 148       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |
| 100 | 150       |                |          | Shimrail   | Siddirganj | Naraynganj | Service    |

## List of Residential Household

## Meghna

| SI. | Household | Name Of The    | F/H Name | Village     | Thana   | District   | Occupation |
|-----|-----------|----------------|----------|-------------|---------|------------|------------|
| No. | ID        | Household Head |          |             |         |            |            |
| 1   | 18        |                |          | Bhaluakandi | Gojaria | Munshiganj | Business   |

# List of Residential Household

## Gumti

| SI. | Household | Name Of The    | F/H Name | Village               | Thana     | District   | Occupation |
|-----|-----------|----------------|----------|-----------------------|-----------|------------|------------|
| No. | ID        | Household Head |          |                       |           |            |            |
| 1   | 1         |                |          | Dolarchor<br>ferighat | Daudkandi | Kumilla    | Business   |
| 2   | 2         |                |          | Dolarchor<br>ferighat | Daudkandi | Kumilla    | Business   |
| 3   | 3         |                |          | Dolarchor<br>ferighat | Daudkandi | Kumilla    | Day labor  |
| 4   | 23        |                |          | Bawshia               | Gojaria   | Munshiganj | Day labor  |
| 5   | 24        |                |          | Bawshia               | Gojaria   | Munshiganj | Service    |
| 6   | 25        |                |          | Bawshia               | Gojaria   | Munshiganj | Service    |

## **List of the Residential Tenants**

Kanchpur

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 1       | 15           |                     |          | Naraynganj | 400          |
| 2       |              |                     |          | Monohardi  | 400          |
| 3       | 33           |                     |          | Debidar    | 100          |
| 4       | 47           |                     |          | Sonargaon  | 800          |
| 5       |              |                     |          | Sonargaon  | 800          |
| 6       |              |                     |          | Sonargaon  | 800          |
| 7       |              |                     |          | Senpara    | 800          |
| 8       | 48           |                     |          | Senpara    | 800          |
| 9       | 53           |                     |          | Naraynganj | 800          |
| 10      |              |                     |          | Narsingdi  | 800          |
| 11      | 56           |                     |          | Bhola      | 1800         |
| 12      |              |                     |          | Jamirtoli  | 800          |
| 13      | 57           |                     |          | Senpara    | 800          |
| 14      |              |                     |          | Comilla    | 800          |

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 15      | 59           |                     |          | Dinajpur   | 1400         |
| 16      |              |                     |          | Naraynganj | 1400         |
| 17      |              |                     |          | Noakhali   | 1400         |
| 18      |              |                     |          | Comilla    | 1300         |
| 19      |              |                     |          | Sylhet     | 1200         |
| 20      | ]            |                     |          | Jamalpur   | 400          |
| 21      | 60           |                     |          | Ashugang   | 1000         |
| 22      | ]            |                     |          | Keraniganj | 1000         |
| 23      |              |                     |          | Dinajpur   | 1000         |
| 24      | 64           |                     |          | Kishorganj | 1400         |
| 25      |              |                     |          | Bhola      | 1400         |
| 26      |              |                     |          | Netrokona  | 1400         |
| 27      |              |                     |          | Mymensingh | 1400         |
| 28      | 65           |                     |          | Dinajpur   | 1400         |
| 29      |              |                     |          | Noakhali   | 1300         |
| 30      |              |                     |          | Jessore    | 2000         |
| 31      |              |                     |          | Bogra      | 1300         |
| 32      |              |                     |          | Mymensingh | 1300         |
| 33      | 1            |                     |          | Netrokona  | 1650         |
| 34      |              |                     |          | Noakhali   | 1800         |
| 35      | 67           |                     |          | Senpara    | 600          |
| 36      | ]            |                     |          | Senpara    | 500          |
| 37      |              |                     |          | Alenga     | 600          |
| 38      | 70           |                     |          | Naraynganj | 1200         |
| 39      |              |                     |          | Comilla    | 1000         |
| 40      | 81           |                     |          | Jessore    | 500          |
| 41      | 82           |                     |          | Mymensingh | 1400         |
| 42      | ]            |                     |          | Comilla    | 1400         |
| 43      |              |                     |          | Mymensingh | 1400         |
| 44      | ]            |                     |          | Daudkandi  | 1400         |
| 45      | 84           |                     |          | Senpara    | 700          |
| 46      | ]            |                     |          | Senpara    | 700          |
| 47      | 86           |                     |          | Noakhali   | 1300         |
| 48      | ]            |                     |          | Sylhet     | 1300         |
| 49      | ]            |                     |          | Dinajpur   | 1300         |
| 50      | ]            |                     |          | Dinajpur   | 1300         |
| 51      | ]            |                     |          | Faridpur   | 1300         |
| 52      | ]            |                     |          | Sylhet     | 1300         |
| 53      |              |                     |          | Netrokona  | 1300         |

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 54      |              |                     |          | Dinajpur   | 1300         |
| 55      |              |                     |          | Naraynganj | 1300         |
| 56      | ]            |                     |          | Dinajpur   | 1300         |
| 57      | 87           |                     |          | Comilla    | 1500         |
| 58      | ]            |                     |          | Dinajpur   | 1600         |
| 59      | ]            |                     |          | Naraynganj | 1600         |
| 60      |              |                     |          | Naraynganj | 1500         |
| 61      |              |                     |          | Chandpur   | 1600         |
| 62      |              |                     |          | Bogra      | 1500         |
| 63      |              |                     |          | Dinajpur   | 1700         |
| 64      |              |                     |          | Jamalpur   | 1500         |
| 65      |              |                     |          | Kurigram   | 1700         |
| 66      |              |                     |          | Dinajpur   | 1700         |
| 67      |              |                     |          | Comilla    | 1500         |
| 68      |              |                     |          | Kurigram   | 1500         |
| 69      |              |                     |          | Dinajpur   | 1600         |
| 70      | 102          |                     |          | Shariatpur | 900          |
| 71      |              |                     |          | Bogra      | 900          |
| 72      | 103          |                     |          | Bogra      | 1000         |
| 73      | 105          |                     |          | Mymensingh | 1400         |
| 74      | 106          |                     |          | Bhola      | 1700         |
| 75      |              |                     |          | Barguna    | 1700         |
| 76      |              |                     |          | Chandpur   | 1700         |
| 77      |              |                     |          | Mymensingh | 1700         |
| 78      |              |                     |          | Sabjikandi | 1700         |
| 79      |              |                     |          | Mymensingh | 1700         |
| 80      | 107          |                     |          | Comilla    | 1300         |
| 81      | ]            |                     |          | Dhaka      | 1500         |
| 82      |              |                     |          | Thakurgaon | 1400         |
| 83      | 1            |                     |          | Shariatpur | 1400         |
| 84      | 1            |                     |          | Thakurgaon | 1600         |
| 85      | 1            |                     |          | Sunamgonj  | 1450         |
| 86      | 108          |                     |          | Netrokona  | 700          |
| 87      | 123          |                     |          |            | 150000       |
| 88      | 123          |                     |          |            | 150000       |
| 89      | 109          |                     |          | Comilla    | 1400         |
| 90      | 1            |                     |          | Comilla    | 1400         |
| 91      | 110          |                     |          | Tangail    | 1400         |

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 92      |              |                     |          | Bhola      | 1400         |
| 93      | 111          |                     |          | Kishorganj | 500          |
| 94      |              |                     |          | Mymensingh | 500          |
|         |              |                     |          |            |              |
| 95      |              |                     |          | Comilla    | 500          |
| 96      |              |                     |          | Netrokona  | 500          |
| 97      | ]            |                     |          | Faridpur   | 500          |
| 98      |              |                     |          | Comilla    | 500          |

# List of the Shop owner (Kanchpur)

| Sl. No. | HH ID. | Name Of The Business Owners | F/H Name | Address    |
|---------|--------|-----------------------------|----------|------------|
| 1       | 1      |                             |          | Siddirganj |
| 2       | 2      |                             |          | Shimrail   |
| 3       | 3      |                             |          | Shimrail   |
| 4       | 4      |                             |          | Shimrail   |
| 5       | 5      |                             |          | Siddirganj |
| 6       | 6      |                             |          | Siddirganj |
| 7       | 7      |                             |          | Shimrail   |
| 8       | 8      |                             |          | Shimrail   |
| 9       | 9      |                             |          | Shimrail   |
| 10      | 10     |                             |          | Shimrail   |
| 11      |        |                             |          | Senpara    |
| 12      | 25     |                             |          | Senpara    |
| 13      | 88     |                             |          | Senpara    |
| 14      | 89     |                             |          | Kanchpur   |
| 15      | 90     |                             |          | Senpara    |
| 16      | 91     |                             |          | Senpara    |
| 17      | 92     |                             |          | Senpara    |
| 18      | 93     |                             |          | Senpara    |
| 19      | 97     |                             |          | Senpara    |
| 20      | 98     |                             |          | Senpara    |
| 21      | 99     |                             |          | Senpara    |
| 22      | 101    |                             |          | Senpara    |
| 23      | 124    |                             |          | Shimrail   |
| 24      | 11     |                             |          | Senpara    |
| 25      | 64     |                             |          | Senpara    |
| 26      | 85     |                             |          | Senpara    |

### List of the Shop owner (Meghna)

| Sl. No. | HH ID. | Name of the business owners | F/H Name | Address             |
|---------|--------|-----------------------------|----------|---------------------|
| 1       | 1      |                             |          | Kazirgaw            |
| 2       | 2      |                             |          | Zhawchor            |
| 3       | 5      |                             |          | Haria               |
| 4       | 6      |                             |          | Tetultola           |
| 5       | 8      |                             |          | Tenggachor          |
| 6       | 9      |                             |          | Chorchasi           |
| 7       | 10     |                             |          | North<br>Nasiruddin |
| 8       | 11     |                             |          | Tetultola           |
| 9       | 12     |                             |          | Tetultola           |
| 10      | 13     |                             |          | Tetultola           |
| 11      | 14     |                             |          | Tetultola           |
| 12      | 15     |                             |          | Tetultola           |
| 13      | 16     |                             |          | Nunertek            |
| 14      | 3      |                             |          | Zhawchor            |
| 15      | 7      |                             |          | Darigaw             |
| 16      | 19     |                             |          | Bhaluakandi         |
| 17      | 20     |                             |          | Bhaluakandi         |

### List of the Shop owner (Gumti)

| Sl. No. | HH ID. | Name Of The Business Owners | F/H Name | Address            |
|---------|--------|-----------------------------|----------|--------------------|
| 1       | 4      |                             |          | Satondi            |
| 2       | 5      |                             |          | Daudkandi          |
| 3       | 6      |                             |          | Daudkandi          |
| 4       | 7      |                             |          | Chorchasi          |
| 5       | 8      |                             |          | Chorchasi          |
| 6       | 9      |                             |          | Chorchasi          |
| 7       | 10     |                             |          | North Nasiruddin   |
| 8       | 11     |                             |          | Daudkandi          |
| 9       | 12     |                             |          | Sabjikandi         |
| 10      | 13     |                             |          | Sonarchor          |
| 11      | 15     |                             |          | Mahammadpur        |
| 12      | 16     |                             |          | Chorchasi          |
| 13      | 19     |                             |          | Chorchasi          |
| 14      | 14     |                             |          | Daud Kandi         |
| 15      | 17     |                             |          | Chorchasi          |
| 16      | 18     |                             |          | Dolarchor ferighat |
| 17      | 21     |                             |          | Bawshia            |
| 18      | 22     |                             |          | Bawshia            |

### List of the Shop Tenant's (Kanchpur)

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 1       | 88           |                     |          | Naraynganj | 2000         |
| 2       |              |                     |          | Senpara    | 2000         |
| 3       | 97           |                     |          | Comilla    | 3000         |
| 4       | 98           |                     |          | Senpara    | 1000         |

# List of the Shop Tenant's

### Meghna

| Sl. No. | Household ID | Name Of The Tenants | F/H Name | Address    | Monthly Rent |
|---------|--------------|---------------------|----------|------------|--------------|
| 1       | 12           |                     |          | Baluakandi | 400          |

# List of both Residential and shop owner Kanchpur

| SI.<br>No. | Household<br>ID | Name Of The<br>Household Head | F/H Name | Village  | Thana     | District   | Occupation |
|------------|-----------------|-------------------------------|----------|----------|-----------|------------|------------|
| 1          | 18              | Trouserrora Tread             |          | Senpara  | Sonargaon | Naraynganj | Business   |
|            |                 |                               |          |          |           |            |            |
| 2          | 33              |                               |          | Senpara  | Sonargaon | Naraynganj | Business   |
| 3          | 86              |                               |          | Senpara  | Sonargaon | Naraynganj | Service    |
|            | 00              |                               |          | Scripara | Sonargaon | Narayngan  | Service    |

### Pond/fish cultivator

# Kanchpur

| Sl. No. | Household<br>ID | Name Of The<br>Household Head | F/H Name | Village  | Thana      | District   |
|---------|-----------------|-------------------------------|----------|----------|------------|------------|
| 105     | 122             |                               |          | Shimrail | Naraynganj | Naraynganj |

### Tree owners

### Meghna

| Sl. No. | Household<br>ID | Name Of The<br>Household Head | F/H Name | Village   | Thana   | District   |
|---------|-----------------|-------------------------------|----------|-----------|---------|------------|
| 1       | 17              |                               |          | Tetultola | Gojaria | Munshiganj |

# Wage earners (Employees)

### Kanchpur

| Sl. No. | HH Id. | Name Of The Wage Labors | F/H Name | Address    | Monthly Salary |
|---------|--------|-------------------------|----------|------------|----------------|
| 1       | 1      |                         |          | Shimrail   | 3000           |
| 2       | 6      |                         |          | Shimrail   | 5000           |
| 3       |        |                         |          | Shimrail   | 1550           |
| 4       |        |                         |          | Shimrail   | 40000          |
| 5       | 20     |                         |          | Mymensingh | 5000           |
| 6       | 25     |                         |          | Senpara    | 4000           |
| 7       | 86     |                         |          | Senpara    | 2000           |
| 8       | 91     |                         |          | Senpara    | 3000           |
| 9       | 95     |                         |          | Senpara    | 2000           |
| 10      |        |                         |          | Barishal   | 6000           |
| 11      | 96     |                         |          | Sonargaon  | 3000           |
| 12      | 97     |                         |          | Kumilla    | 4000           |
| 13      |        |                         |          | Kumilla    | 4000           |
| 14      |        |                         |          | Senpara    | 3500           |
| 15      |        |                         |          | Senpara    | 3500           |
| 16      | 99     |                         |          | Senpara    | 6000           |
| 17      |        |                         |          | Senpara    | 2000           |
| 18      |        |                         |          | Senpara    | 4000           |
| 19      | 112    |                         |          | Barishal   | 4000           |
| 20      | 118    |                         |          | Kanchpur   | 5000           |
| 21      |        |                         |          | Kanchpur   | 80000          |
| 22      |        |                         |          | Kanchpur   | 3000           |
| 23      |        |                         |          | Kanchpur   | 3000           |
| 24      |        |                         |          | Kanchpur   | 3000           |
| 25      |        |                         |          | Kanchpur   | 4000           |
| 26      |        |                         |          | Kanchpur   | 5000           |

# Wage earners (Employees)

Gumti

| Sl. No. | HH Id. | Name Of The Wage Labors | F/H Name | Address   | Monthly Salary |
|---------|--------|-------------------------|----------|-----------|----------------|
| 1       | 7      |                         |          | Daudkandi | 6000           |
| 2       |        |                         |          | Daudkandi | 6000           |

# Community owned structures including physical cultural resources

### Kanchpur

| SI. No. | Household<br>ID | Name Of The<br>Household Head | F/H Name | Village  | Thana       | District |
|---------|-----------------|-------------------------------|----------|----------|-------------|----------|
| 1       | 123             |                               |          | Khilgaon | Bodderbazar | Dhaka    |

# Community owned structures including physical cultural resources

### Meghna

| Sl. No. | Household<br>ID | Name Of The<br>Household Head | F/H Name | Village        | Thana     | District   |
|---------|-----------------|-------------------------------|----------|----------------|-----------|------------|
| 1       | 4               |                               |          | Meghna<br>ghat | Sonargaon | Naraynganj |

### **ANNEX 4**

### General View of the Project Sites and Location of Affected Households

- Figure A.4-1 General View of Kanchpur Bridge Site
- Figure A.4-2 General View of Meghna Bridge Site
- Figure A.4-3 General View of Gumti Bridge Site
- Figure A.4-4 Comparisons of Bridge Shape of Existing and 2nd Kanchpur Bridge
- Figure A.4-5 Comparisons of Bridge Shape of Existing and 2nd Meghna Bridge
- Figure A.4-6 Comparisons of Bridge Shape of Existing and 2nd Gumti Bridge

#### Kanchpur Bridge

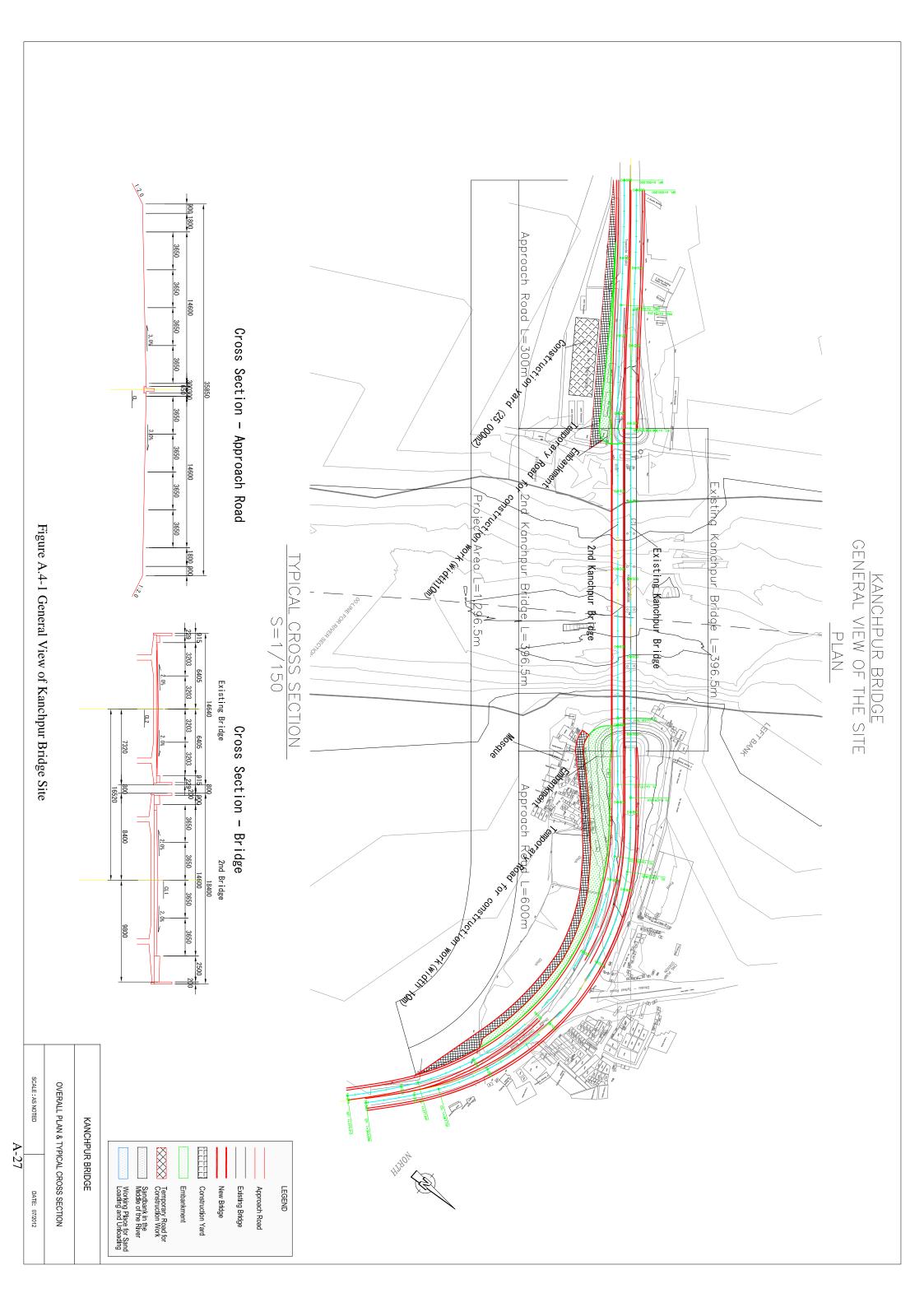
- Figure A.4-7 Location of Affected Households Overall Section (Sheet No.1)
- Figure A.4-8 Location of Affected Households West Section (Sheet No. 2)
- Figure A.4-9 Location of Affected Households West Section (Sheet No. 3)
- Figure A.4-10 Location of Affected Households East Section (Sheet No. 4)
- Figure A.4-11 Location of Affected Households East Section (Sheet No. 5)
- Figure A.4-12 Location of Affected Households East Section (Sheet No. 6)

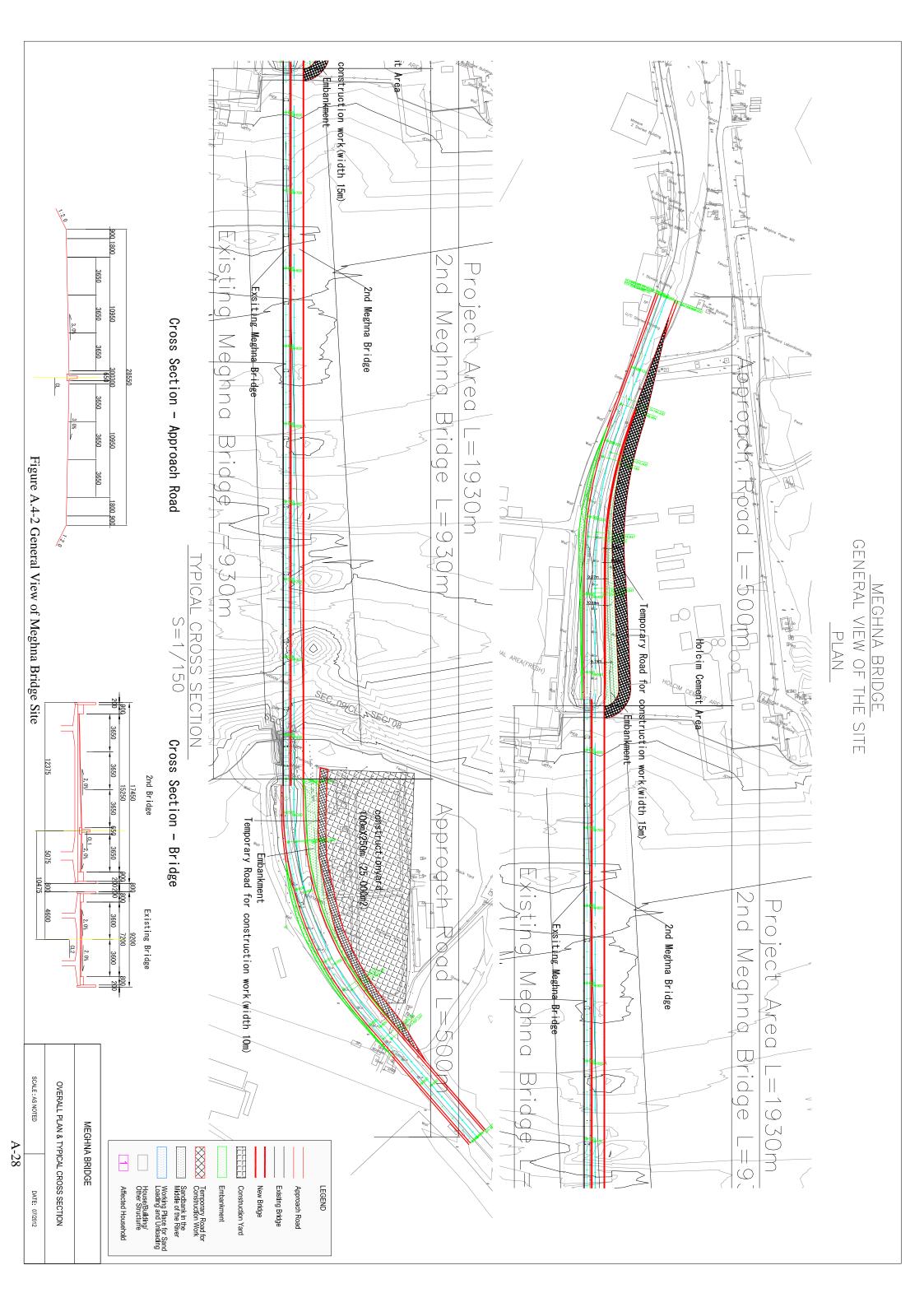
### Meghna Bridge

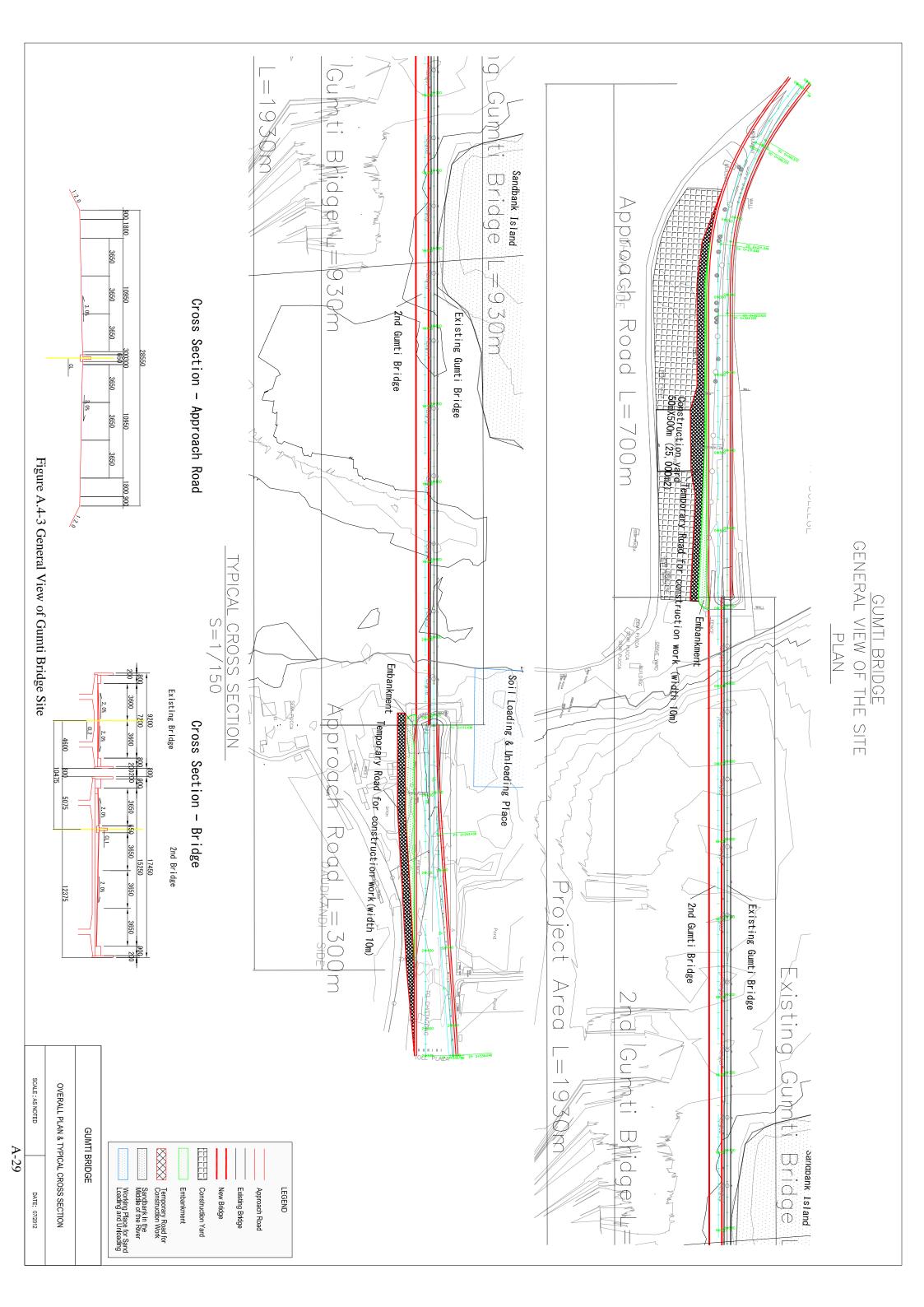
- Figure A.4-13 Location of Affected Households Overall Section (Sheet No. 1)
- Figure A.4-14 Location of Affected Households North Section (Sheet No. 2)
- Figure A.4-15 Location of Affected Households North Section (Sheet No. 3)
- Figure A.4-16 Location of Affected Households South Section (Sheet No. 4)
- Figure A.4-17 Location of Affected Households South Section (Sheet No. 5)
- Figure A.4-18 Location of Affected Households South Section (Sheet No. 6)

#### Gumti Bridge

- Figure A.4-19 Location of Affected Households Overall Section (Sheet No. 1)
- Figure A.4-20 Location of Affected Households West Section (Sheet No. 2)
- Figure A.4-21 Location of Affected Households West Section (Sheet No. 3)
- Figure A.4-22 Location of Affected Households West Section (Sheet No. 4)
- Figure A.4-23 Location of Affected Households East Section (Sheet No. 5)
- Figure A.4-24 Location of Affected Households East Section (Sheet No. 6)
- Figure A.4-25 Location of Affected Households East Section (Sheet No. 7)







### Existing Kanchpur Bridge

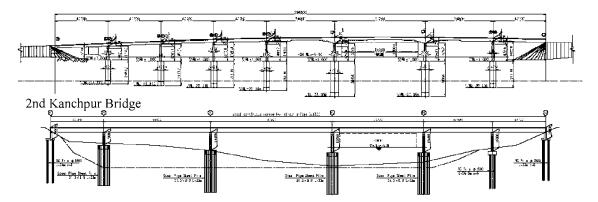


Figure A.4-4 Comparisons of Bridge Shape of Existing and 2<sup>nd</sup> Kanchpur Bridge

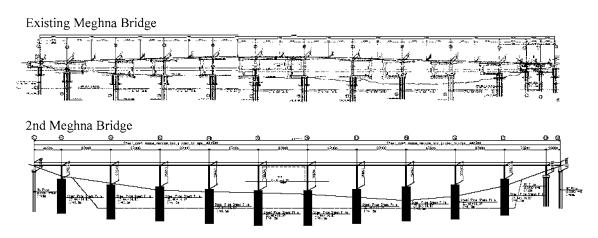


Figure A.4-5 Comparisons of Bridge Shape of Existing and 2<sup>nd</sup> Meghna Bridge

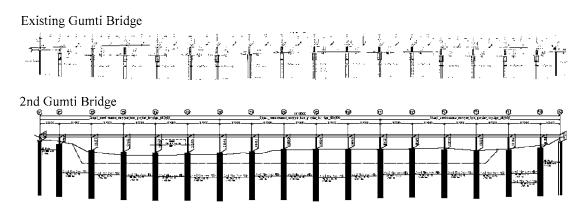
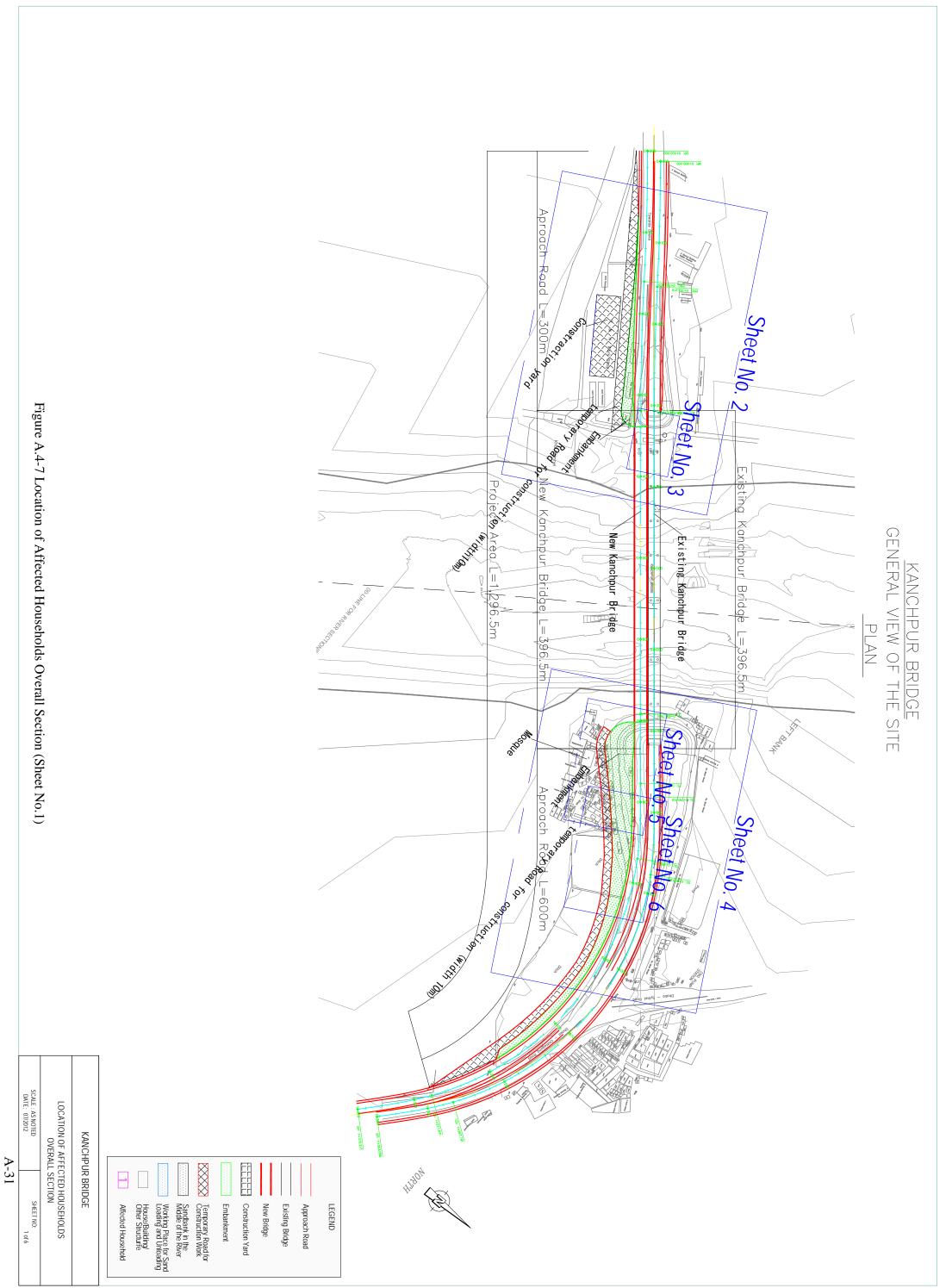
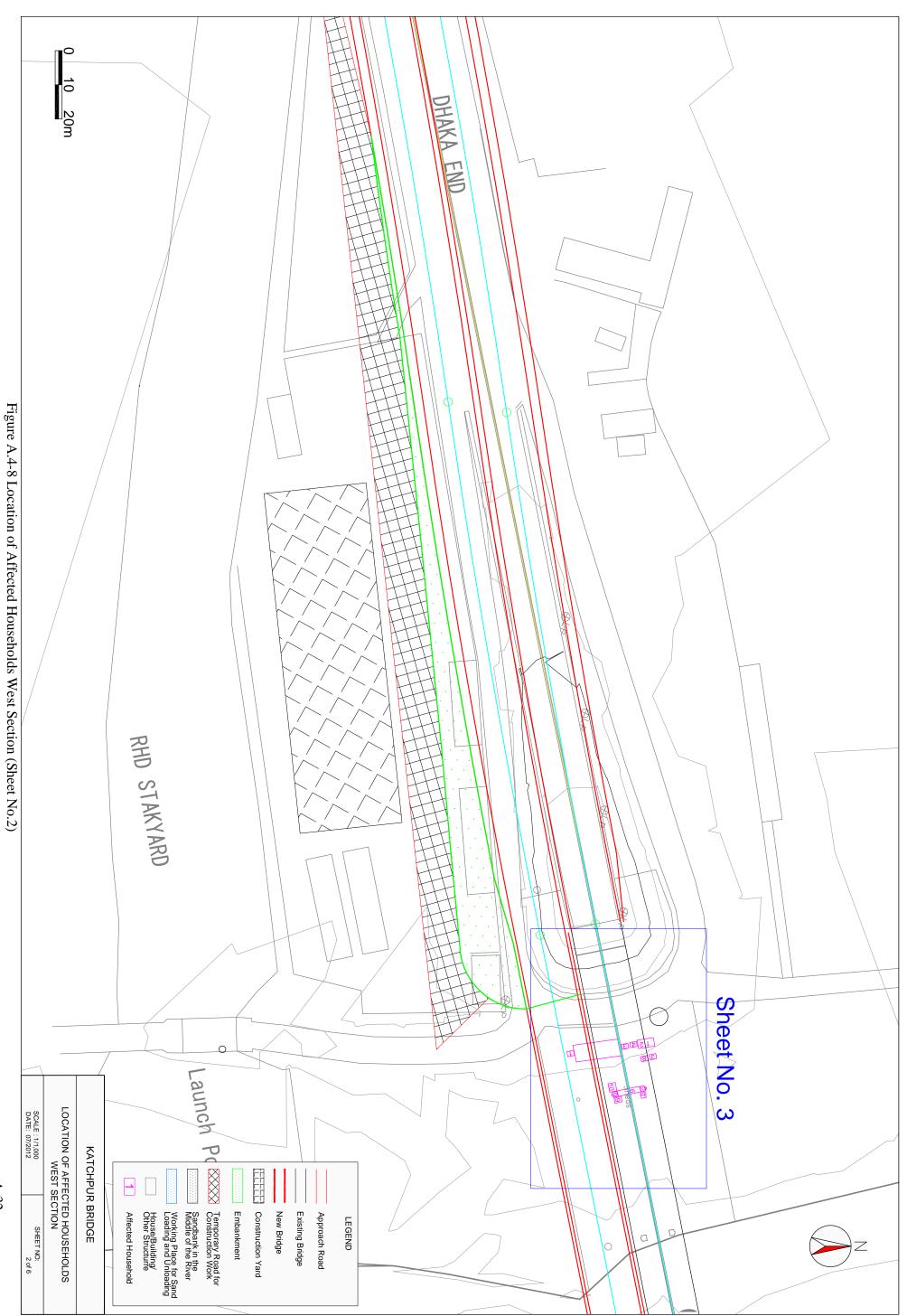


Figure A.4-6 Comparisons of Bridge Shape of Existing and 2<sup>nd</sup> Gumti Bridge



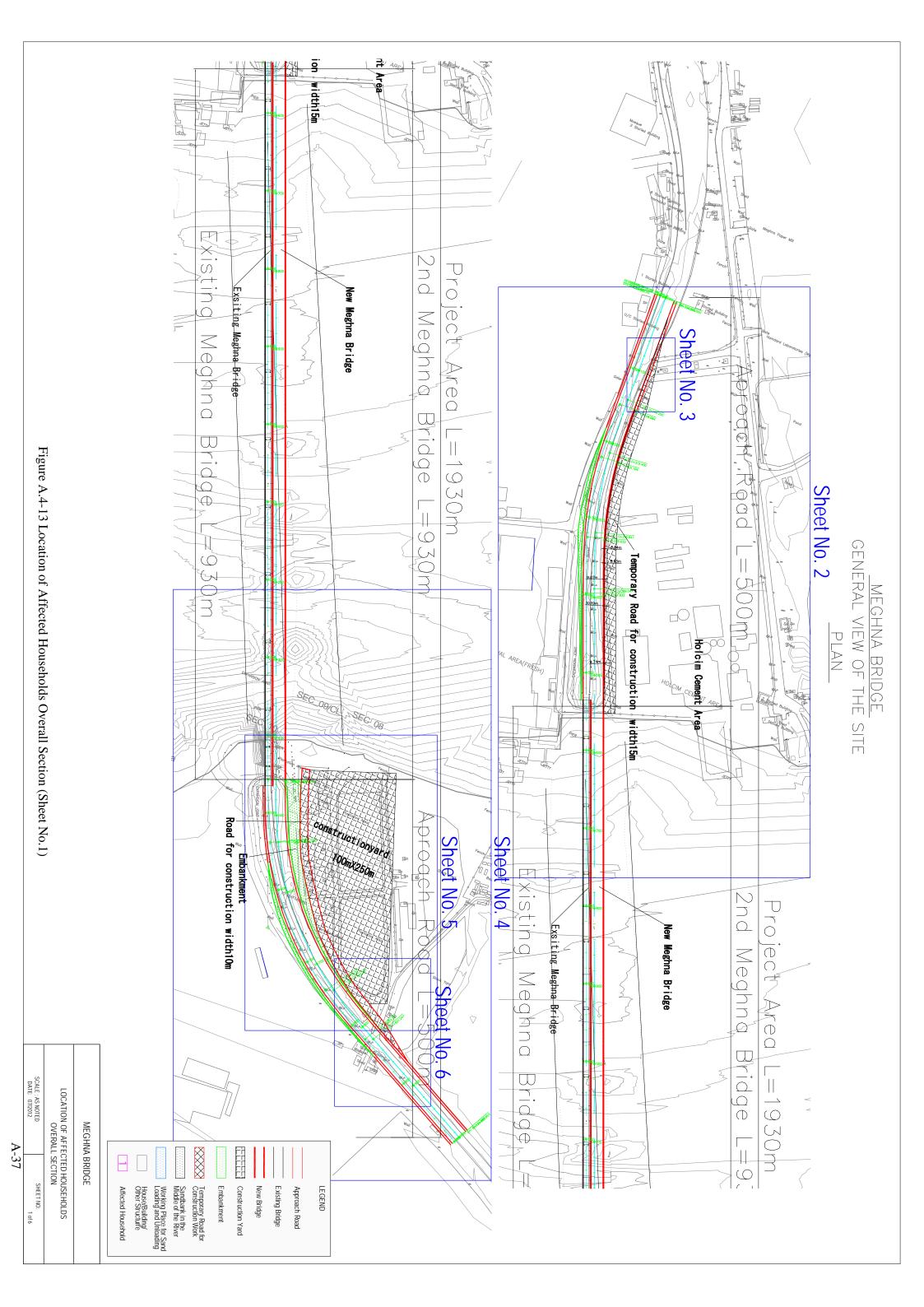


A-32

A-33

Figure A.4-10 Location of Affected Households East Section (Sheet No.4)

Figure A.4-11 Location of Affected Households East Section (Sheet No.5)



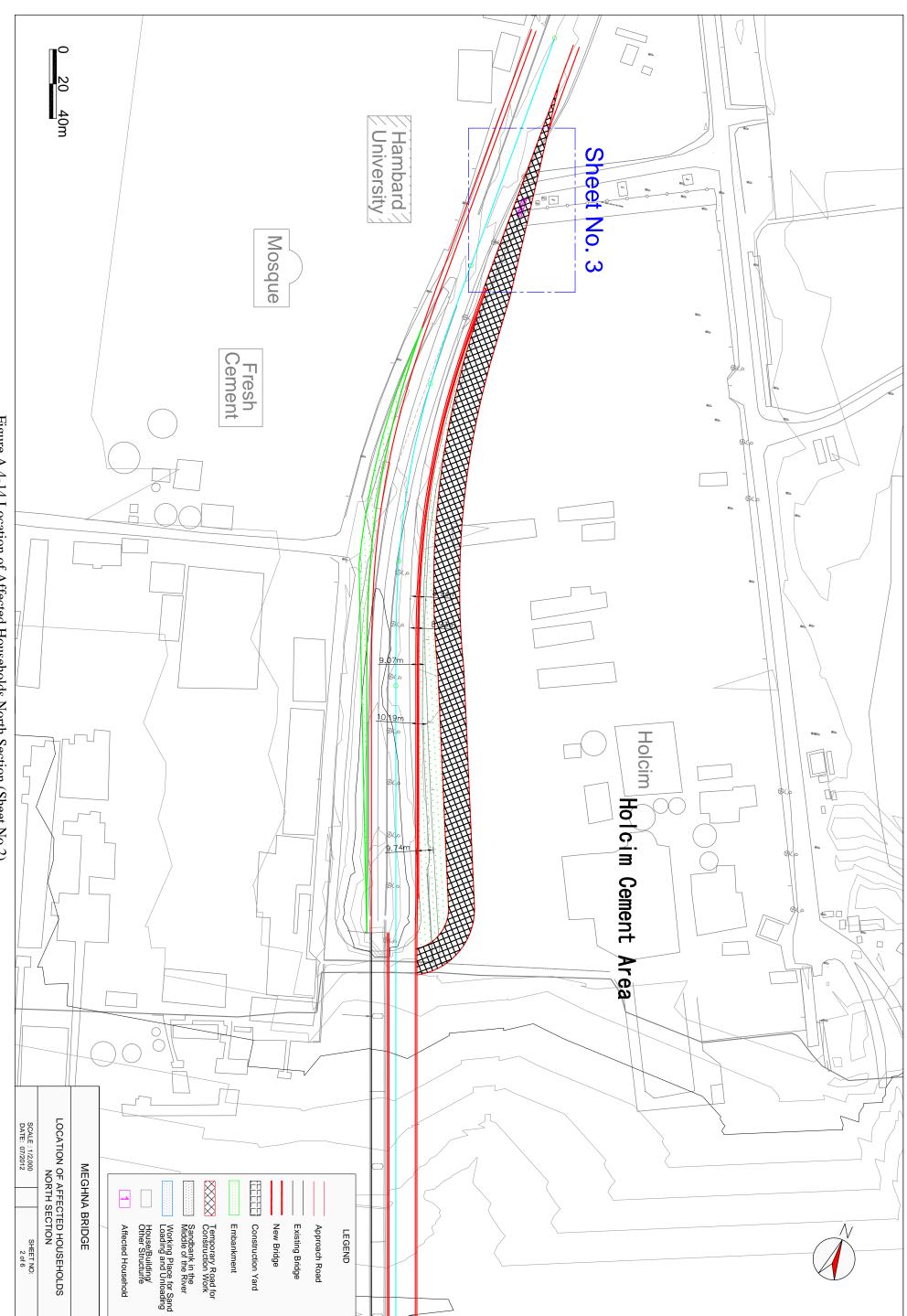


Figure A.4-14 Location of Affected Households North Section (Sheet No.2)

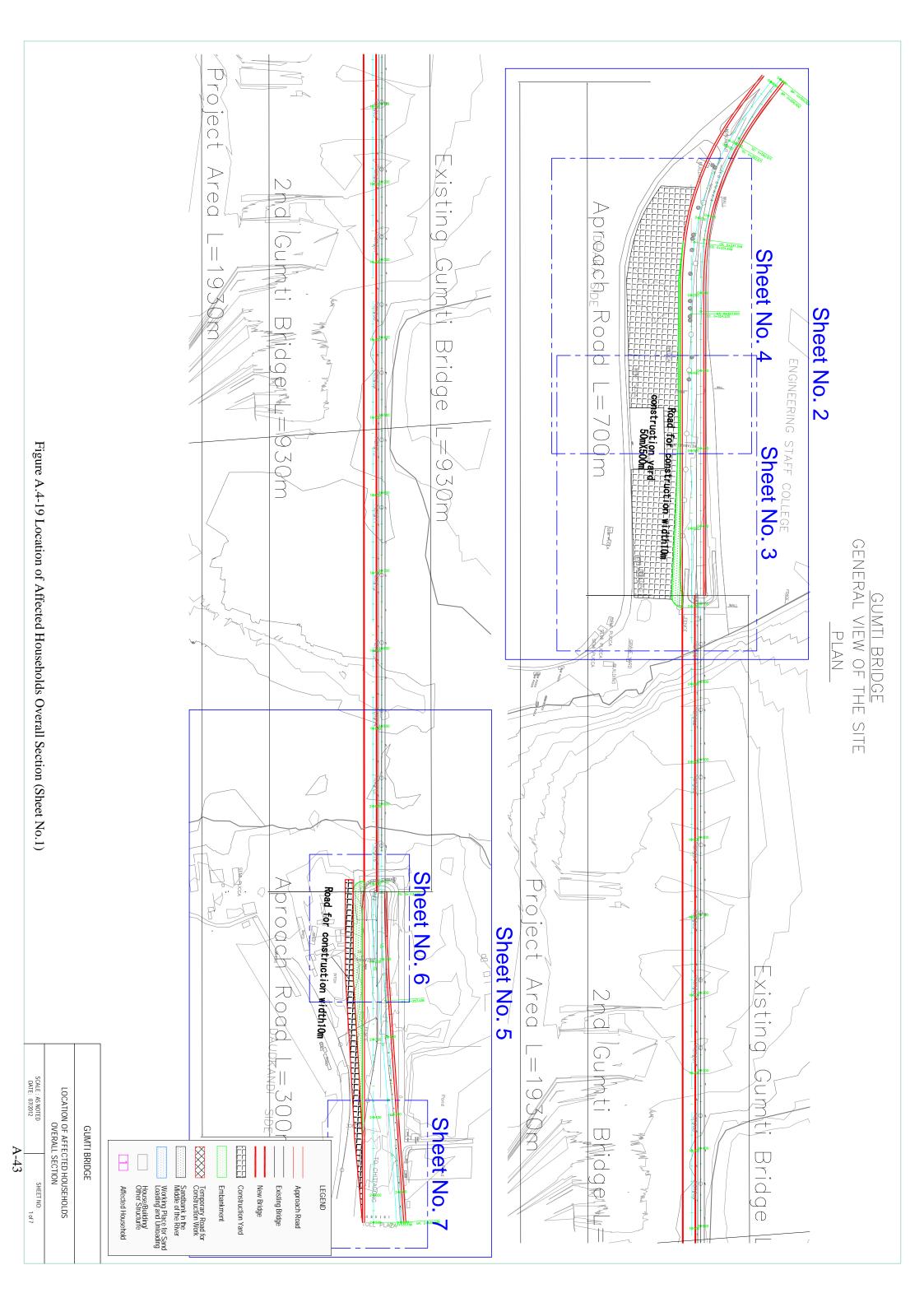
Figure A.4-15 Location of Affected Households North Section (Sheet No.3)

A-40



A-41

A-42



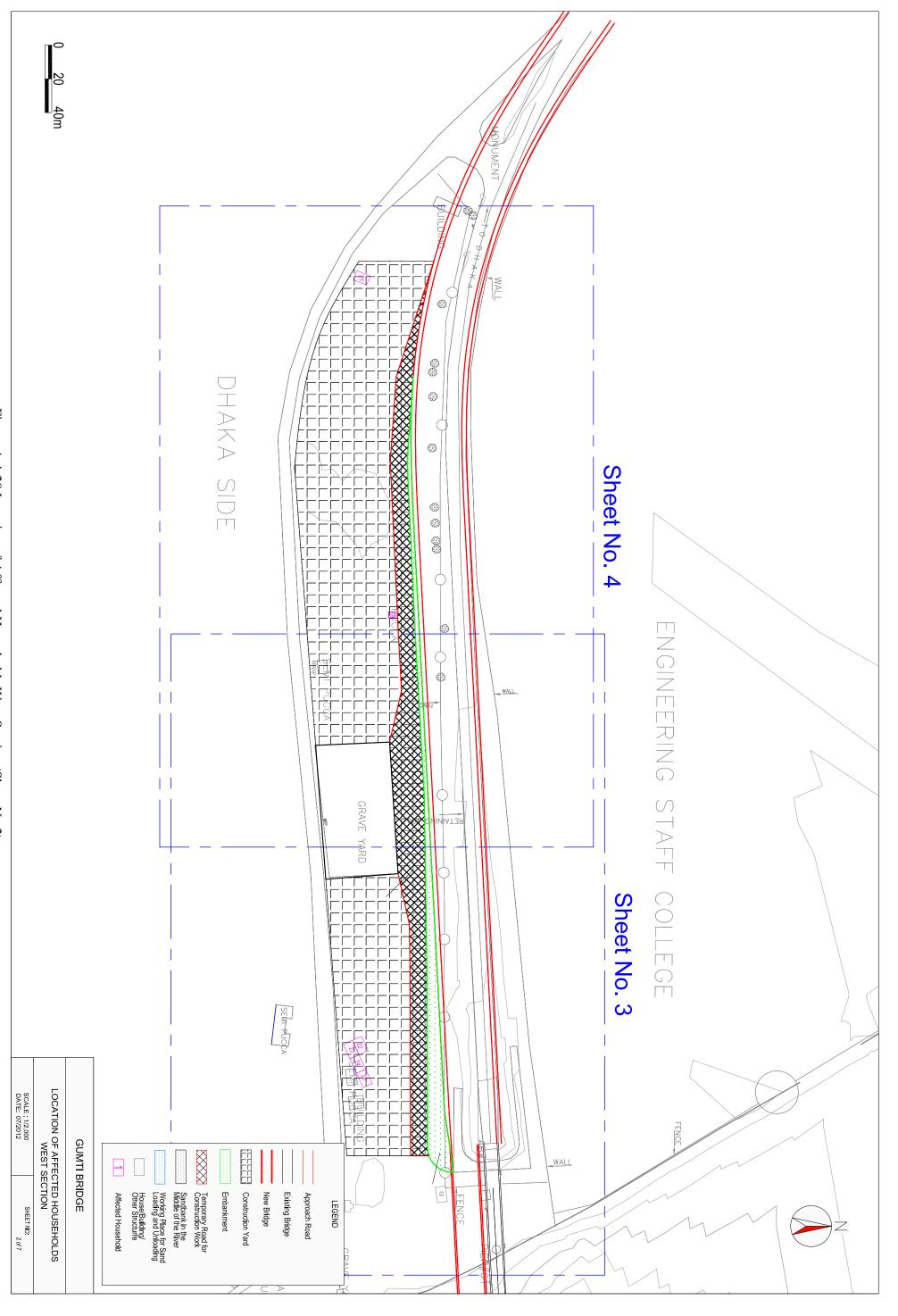
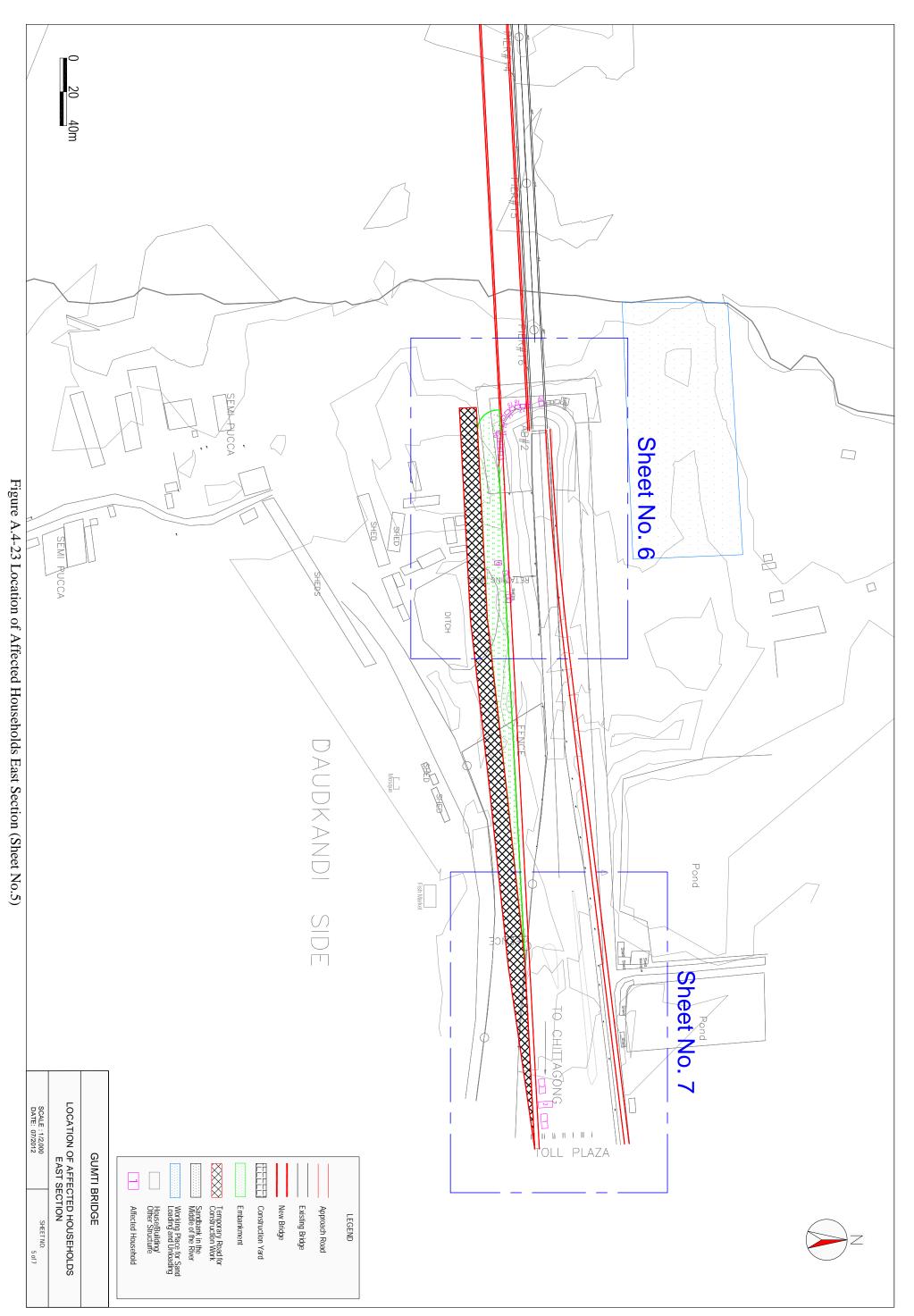


Figure A.4-20 Location of Affected Households West Section (Sheet No.2)

Figure A.4-21 Location of Affected Households West Section (Sheet No.3)

Figure A.4-22 Location of Affected Households West Section (Sheet No.4)



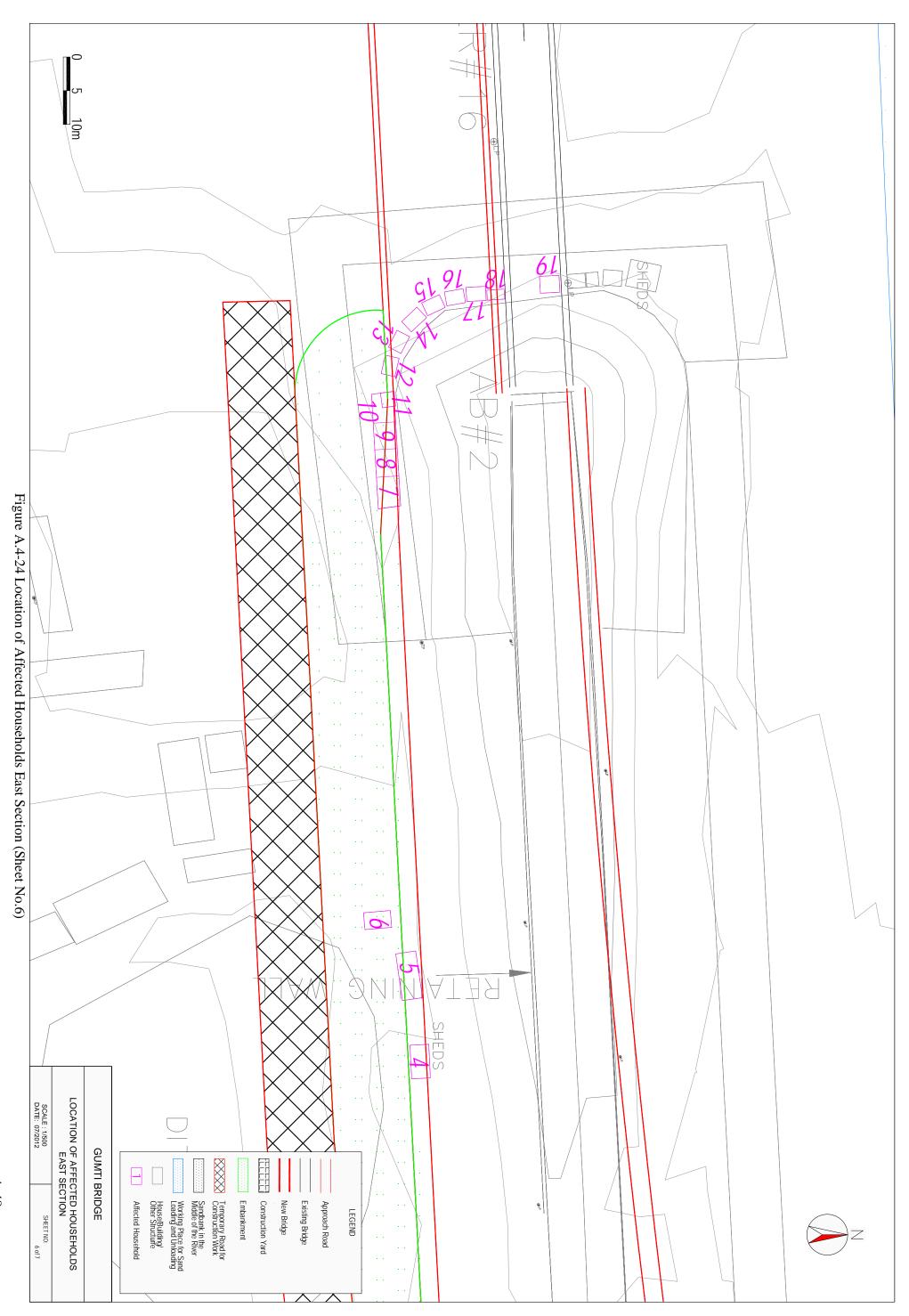




Figure A.4-25 Location of Affected Households East Section (Sheet No.7)

#### Roads and Highways Department (RHD)

Preparatory Survey for Dhaka-Chaittagong Highway (N-1) Bridge Construction and Rehabilitation Project
Kanchpur Bridge and Meghna-Gomti Bridge

Consultation meeting with potential affected people and other stakeholders

Date: 15 .3.2012 at 10.30 am Venue : Shenpara, Kanchpur, Sonargao, Narayanganj

A meeting was held on the 15<sup>th</sup> March 2012 at 10.30 a m at the Kanchpur Bri dge location (Shenpara), Sonargaon, Narayangani on T erms of Reference for Social and Environmental Impact Assessment. The Meeting was presided over by the Kanchpur Union Parishad Chairman Md. Alhaj Fazlul Haque. Among others Mr. Md. Ashraful Alam Superintending Engineer, RHD, Mr. Tushar Kanti Shaha Executive Engineer, RHD, Shi mrail, Narayangani, Md. Rejaul Karim Executive Engineer, Bridge Design Division, RHD, Dhaka, Ms. Rehana Haque Executive Engineer, RHD, Dhaka, Ms. Johora Sultana S DE, RHD, Dhaka, Abdur Rahma n Kawser SDE, RHD, Narayangani, Takeo SHOJI Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural En vironmental Engineer (Local) and Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and more than 30 local people were present in the meeting (list of the participants attached in Appendix-A). In the consultation meeting the local pe ople were informed about the goals and o bjectives of the. The Superintending Engineer welcomed all participants in the discussion session and described the project including it's different components. It was disclosed that the Japan Bank for International Cooperation (JICA) will finance the project Mr. Takeo SHOJI described importance of the consultation meeting and emphasizes on the social and en vironmental issues to be addressed during project preparation, implementation and operation & maintenance stage.

Md. Abu Nahid Munirudding and Kh. Khairul Matin pres ented the environmenta I and social issues using flip charts. It was discussed that the construction of the project may be started by early 2014. The project will include main bridge, approach road, service area, stake yard, etc.

#### Kh. Khairul Matin informed the participants that;

- New land acquisition is not required for construction of the proposed bridges and for this overall impact on the community will be minimized.
- These bridges will be constructed in RHD land acquired for the existing bridges
- Some residential households, commercial enterprises and common properties are found within the proposed area those are required relocation before starting civil construction
- A detailed socioecon omic survey and inventory of assets through structured questionnaires are being conducted among the households within and surrounded the project area.

· The cut-off date for conducting this survey is

March 8, 2012 for Kanchpur Bridge

March 15, 2012 for Meghna Bridge &

March 15, 2012 for Meghna-Gomti Bridge

- The residential households are to be relocated in new location due to the project
- Commercial enterprises would be relocated for continuing business
- They have to search alternative livelihood for the time being
- Wage labourers may lose their job for some days/weeks
- The vulnerable house holds/ women headed households may exp erience adverse impacts due to the project
- The commercial enterprises may be closed for some days/weeks
- Besides, some other adverse impacts/ ch allenges may be encountered during construction of the bridge

Md. Abu Nahid Muniruddin informed the participants that the proposed bridge construction project may impact or effect on the following important environmental components (IECs) during various phases of the project:

- Topography and Geology may be changed due to the project
- Soil Erosion and scouring in the river bed may take place
- Inland Water Transportation may disturbed during construction of the bridge
- River hydrology may be changed
- Impacts on Biota and ecosystems
- Effects on Global Warming
- Air Pollution
- Water Contamination
- Soil Pollution
- Waste
- Noise and Vibration
- Ground Subsidence
- Odor
- Bottom Sediment
- Landscape

A large per centage of participants were con cerned that the existin g water quality of the Shitalakhya river is very poor due to the effluent discharges from all the industries situated on the upstream and downstream which include, fertilizers, textiles, jute mills, soap factory, pulp

and paper mill etc. These Industrial pollution often creates very severe localized environmental problems, which affect human health, aesthe tic and I ocal ecosystems. Due to the industrial effluents, there is no fish in the river Shitalkahya. Most of them also opined that noise, vibration, and dust will be the major issues during construction.

The Environmental Specialist pointed out that impact on the project upon ambient air, noise quality, soil quality, water quality is being assessed through collection of primary baseline data. EMP will provide instructions limiting environmental qualities to comply with the standards and penalties for violation.

Almost everybody said that they will support the project and advised the JICA Team to take precautions in the environmental mitigation to avoid the various impacts anticipated during the preconstruction, construction and operation stages of the project and to ensure protection of the sensitive locations like mosque, mazar, graveyard etc. of the areas.

The Environmental Specialist informed that the design and layout of the main bridge and approach roads etc. when finalized will consider the anticipated adverse impacts. EMP will cover specific measures to follow during the construction process in protecting religious and other sensitive locations.

The participants expressed their views in favor of the project. They are well known about the contribution of the JICA in this project. The affected people told that they have been living in the present location for more than two decades—and most of them have no altern—ative land for relocation. Most of them are wage laborers—and rickshaw/van puller. Some of the women are living there who have no husban—d or adult—son—to shoulder the household responsibility. According to their statement, most of them are vulnerable—in terms of income. About 14 RHD employees are living within the proposed site in their own structure but they have constructed some temporary sheds and rented out to ot—hers. About 120 resid—ential—and commercial enterprises are found in the proposed site (both ends of the Kanchpur bridge). After threadbare discussion on the issu es—the floor was open—for all to express opini—on about the mitigation measures of the probable social and environmental impacts as discussed earlier.

It was found that the people are mainly concern about their relocation on and assistance to be provided by the project for relocation in new site.

| SI | Name                | Posiition                                  | Sex  | Question/ opinion   |  |
|----|---------------------|--|------|---|--|
| 1  | Mr. Md.             | Chairman,<br>Kanchpur<br>Union<br>Parishad | Male | The people living in the bridge adjacent area are mostly land leand vulnerable. They have been living in this place for 20-30 yea 'We, the local people want the new bridge parallel to existing o with immediate effect but the se poor people should be relocated the project'- the Chairman urged. Some small shop owners are all dealing in within the project area. They should be paid compensationand other assistance properly. |  |
| 2  | Md. Akkas<br>Sharif | Resident                                   | Male | He is living in the project site for about 30 years. He has small piece of land in a distant place but that is not suitable for constructing house. They have a social network here and publicly known a  |  |

|   |                       |  |        | citizen of this area. He has no way of relocation by own-self.   |  |
|---|-----------------------|--|--------|--|--|
| 3 | Ms. Hazera<br>Begum   | Resident                                 | Female | She is I iving here for 25 years as te nant. She has no land for relocation even she has no structure to live in. He is widow and leading the family with one adult son who is taking household hold responsibility on his shoulder. |  |
| 4 | Md. Fazlul<br>Haque   | Resident                                 | Male   | They are living here for about 25 years. His parents buried in the nearer graveyard. He has no alternative land for relocation. Wanted compensation and as well as relocation in government land by the project.                     |  |
| 5 | Mohammad<br>Hossain   | Resident                                 | Male   | He needs compensation for the structur e and relocation by the project.  |  |
| 6 | Ali Ahmed             | Resident                                 | Male   | Also requested relocation in project sponsored relocation site   |  |
| 7 | Hazi Serajul<br>Islam | Member,<br>Kanchpur<br>Union<br>Parishad |        | there are some land within RHD boundary where these people m be relocated. Government may think about khash lan d for the relocation. But this should be in the nearer place so that their mean of livelihood will not be hampered   |  |

The Chairman of the Kanchpur Union Parishad thanked to all especially the Jap an Government for extending support in this project and urged again relocation of the affected poor households in a cluster manner if there is any provision in the project.

The Superintending Engineer infor med the participants that their opinion have been noted down and would be discussed with the project authority. The principle is to assist the affected persons in their relocation as per Donor's guideline and they should be relocated by their own before star ting civil construction. The affected persons were insisted to search alternative location from now as they have about 2 years time in hand to relocate.

The meeting was closed with a vote of thanks from the chair.

**Appendix-A: Attendance Sheet** 

# Consultation meeting with affected people and other stakeholders (Attendance Sheet)

Date: March 15. 2012, Time 10.30 am Venue: Kanchpur Bridge (Shenpara), Ctg.

end

Union: Kanchpur, Upazila: Sonargaon,

District: Narayangani

| SI.      | Name               | Father's name              | Address/ Identity                                   | Cell Phone No.  | Signature |
|----------|--------------------|----------------------------|---|-----------------|-----------|
| No.      | Name               |                            |   | Cell Filone No. | Signature |
| 01       | Chairman           | Kanchpur Union<br>Parishad | Senpara, Kanchpur                                   | 01716417987     |           |
| 02       | Abdul Barak        | Kanchpur Union<br>Parishad | Senpara, Kanchpur                                   | 01676942438     |           |
| 03       | Abdul Rahman       | Kanchpur Union<br>Parishad | Senpara, Kanchpur                                   | 01195341846     |           |
| 04       | Shirajul Islam     | Abdur Sobhan               | Senpara, Kanchpur                                   | 01711056580     |           |
| 05       | Fazzlul Haque      |                            | Senpara, Kanchpur                                   | 01711133079     |           |
| 06<br>60 | Shaidul Islam      |                            | Senpara, Kanchpur                                   | 01190759122     |           |
| 07       | Nazrul Islam       |                            | Assistant Imam<br>Senpara Jame<br>Mosque, Kanchpur  | 01816594163     |           |
| 08       | Md Akkas Ali       |                            | Senpara, Kanchpur                                   | 01712830302     |           |
| 09       | Anamul Haque       |                            | Senpara, Kanchpur                                   | 01822810672     |           |
| 10       | Md. Mintu          | Saidur Rahman              | Senpara, Kanchpur                                   | 01937296459     |           |
| 11       | Samsul Alam        | Anisur Rahman              | Senpara, Kanchpur                                   | 01740398297     |           |
| 12       | Abdul Kadir        | Moksed Ali                 | Senpara, Kanchpur                                   | 01821500197     |           |
| 13       | Abul Kalam         |                            | Senpara, Kanchpur                                   | 01937400420     |           |
| 14       | Ataur Rahman       |                            | Senpara, Kanchpur                                   |                 |           |
| 15       | Osman Goni         |                            | Senpara, Kanchpur                                   |                 |           |
| 16       | Dr. Mamun          | Anamul Haque               | Senpara, Kanchpur                                   | 01712161489     |           |
| 18       | Jadul Kalam        | Habibullah                 | Senpara, Kanchpur                                   | 01673029842     |           |
| 19       | Shahidul Haque     | Sayed Ali                  | Senpara, Kanchpur                                   | 01938696497     |           |
| 20       | Osman Goni         | Abul Hossain               | Senpara, Kanchpur                                   | 01814849680     |           |
| 21       | Ruhul Amin         | Abdul Bared                | Senpara, Kanchpur                                   | 01827866799     |           |
| 21       | Yousuf Ali         | Abdul Mannan               | Senpara, Kanchpur                                   | 01744788376     |           |
| 22       | Asraful Alam       |                            | Superintending<br>Engineer, RHD                     | 01711609137     |           |
| 23       | Shoji Takeo        |                            | Environmental<br>Specialist JICA Study<br>Team      |                 |           |
| 24       | Eiji Yonezawa      |                            | JICA Study Team                                     |                 |           |
| 25       | Tushar Kanti Shaha |                            | Executive Enginner,<br>RHD, Simrail,<br>Narayanganj | 01552600037     |           |
| 26       | Rezaul Karim       |                            | Executive Enginner, RHD, Dhaka                      | 01924964464     |           |
| 27       | Rehana Haque       |                            | Executive Enginner, RHD, Dhaka                      | 01552308166     |           |
| 28       | Johura Sultana     |                            | Sub-Divisional<br>Engineer, RHD                     | 0171859999      |           |
| 29       | Abdur Rahman       |                            | Sub-Divisional                                      | 01552451362     |           |

| SI.<br>No. | Name                        | Father's name     | Address/ Identity                                    | Cell Phone No. | Signature |
|------------|-----------------------------|-------------------|--|----------------|-----------|
|            | Kawser                      |                   | Engineer (RHD),<br>Narayanganj                       |                |           |
| 30         | Konno Toshiyuki             |                   | JICA Study Team                                      |                |           |
| 31         | Makate Nozawa               |                   | JICA Study Team                                      |                |           |
| 32         | Shahadat Hossain            | Tariq Ullah       |  | 01712131172    |           |
| 33         | Dilip Kumar Das             | Dhirendranath das |  | 01711218969    |           |
| 34         | Farid Uddin                 | Moksed Ali        |  | 01673984504    |           |
| 35         | Motiur Rahman               | Azizur Rahman     | Senpara  | 01552490671    |           |
| 36         | Noab Ali                    | Hafiz Ali         | Senpara  |                |           |
| 37         | Ataur Rahman                | Azizur Rahman     | Senpara  | 01920933093    |           |
| 38         | Jalal Sheikh                | Ajgor             | Senpara  | 01937250755    |           |
| 39.        | Md. Abu Nahid<br>Muniruddin |                   | Natural Environmental Engineer, JICA Study Team      | 01715452920    |           |
| 40.        | 0. Kh. Khairul Matin        |                   | Social Environmental<br>Enginner, JICA Study<br>Team | 01741127736    |           |

### Roads and Highways Department (RHD)

Preparatory Survey for Dhaka-Chaittagong Highway (N-1) Bridge Construction and Rehabilitation Project
Kanchpur Bridge and Meghna-Gomti Bridge

Consultation meeting with potential affected people and other stakeholders

Date: 15 .3.2012 at 02.30 pm Venue : Tetuitala Bazar, Meghna Ghat, Baliakandi, Gazaria, Munshigani

A meeting was held on the 15 th March 2012 at 2.30 pm the Ka nchpur Bridge locatio n (Shenpara), Sonargaon, Narayangani on T erms of Reference for Social and Environmental Impact Assessment. The Meeting was presided over by the Hazi Abd ul Aziz Dewan (affecte d person), Tetuitala, balia kandi, Gazaria, Munshiganj. Mrr. Md. Ashraful Alam Superintending Engineer, RHD, Mr. Tushar Kanti Shaha Executive Engineer, RHD, Shi mrail, Narayangani, Md. Rejaul Karim Executive Engineer, Bridge Design Division, RHD, Dhaka, Ms. Rehana Hague Executive Engineer, RHD, Dhaka, Ms. Johura Sultana SDE, RHD, Dhaka, Abdur Rahman Kawser SDE, RHD, Narayangani, Takeo SHOJI Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural Environmental Engineer (Lo cal) and Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and more than 50 local people were present in the meeting (list of the participants attached in Appendix-A) In the consultation meeting the local people were informed about the goals and objectives of the. The Superintending Engineer welcomed all participants in the discussion session and described the project including it's different components. It was disclosed that the Japan Bank for International Cooperation (JICA) will finance the project Mr. Takeo S HOJI described importance of the consultation meeting and emphasizes on the social and en vironmental issues to be addressed during project preparation, implementation and operation & maintenance stage.

Md. Abu Nahid Munirudding and Kh. Khairul Matin pres ented the environmental and social issues using flip charts. It was discussed that the construction of the project may be started by early 2014. The project will include main bridge, approach road, service area, stake yard, etc.

#### Kh. Khairul Matin informed the participants that;

- New land acquisition is not required for construction of the proposed bridges and for this
  overall impact on the community will be minimized.
- These bridges will be constructed in RHD land acquired for the existing bridges
- Some residential households, commercial enterprises and common properties are found within the proposed area those are required relocation before starting civil construction
- A detailed socioecon omic survey and inventory of assets through structured questionnaires are being conducted among the households within and surrounded the project area.

· The cut-off date for conducting this survey is

March 8, 2012 for Kanchpur Bridge

March 15, 2012 for Meghna Bridge &

March 15, 2012 for Meghna-Gomti Bridge

- The residential households are to be relocated in new location due to the project
- Commercial enterprises would be relocated for continuing business
- They have to search alternative livelihood for the time being
- Wage labourers may lose their job for some days/weeks
- The vulnerable house holds/ women headed households may exp erience adverse impacts due to the project
- The commercial enterprises may be closed for some days/weeks
- Besides, some other adverse impacts/ ch allenges may be encountered during construction of the bridge

Md. Abu Nahid Muniruddin informed the participants that the proposed bridge construction project may impact or effect on the following important environmental components (IECs) during various phases of the project:

- Topography and Geology may be changed due to the project
- Soil Erosion and scouring in the river bed may take place
- Inland Water Transportation may disturbed during construction of the bridge
- River hydrology may be changed
- Impacts on Biota and ecosystems
- Effects on Global Warming
- Air Pollution
- Water Contamination
- Soil Pollution
- Waste
- Noise and Vibration
- Ground Subsidence
- Odor
- Bottom Sediment
- Landscape

The participants opined that the existing water quality of the Meghna river is not good due to untreated effluent discharges from two chemical industries. They requested that a sound environmental mitigation plan be prepared to address the various impacts anticipated during the

pre-construction, construction and implementation stages and to ensure the protection of natural water bodies (river, canals etc.).

The Environmental Specialist pointed out that impact on the project upon ambient air, noise quality, soil quality, water quality is being assessed through collection of primary baseline data. EMP will provide instructions limiting environmental qualities to comply with the standards and penalties for violation.

Almost everybody said that they will support the project and advised the JICA Team to take precautions in the environmental mitigation to avoid the various impacts anticipated during the preconstruction, construction and operation stages of the project and to ensure protection of the sensitive locations like mosque, mazar, graveyard etc. of the areas.

The Environmental Specialist informed that the design and layout of the main bridge and approach roads etc. when finalized will consider the anticipated adverse impacts. EMP will cover specific measures to follow during the construction process in protecting religious and other sensitive locations.

The participants expressed their views in favor of the project. They are well known about the contribution of the JICA in this project. They are also known that the existing Meghna and Meghna-Gomti Bridge were constructed with financial assistance fro m Japan. The affected people told that they have been living/ dealing in the present location for more than three decades and most of them have no alternative land for relocation. The existing bazaar is established long ago and now it is being auctioned in every year by Upazila Administration. This is the only market in this area. Some poor people are living beside the market in a slum on RHD land. They are willing to offer their possession for constructing the bridge but required relocation in anywhere nearer to the present I ocation. About 300 shops and more than 100 residential households are there. Most of the people living in the project area are vulnerable and they earn their livelihood by wage laboring, brick & stone cheeping, fishing etc. Some of the women are living there who have no husban d or adult son to shoulder the household responsibility. According to their statement, most of them are vulnerable in terms of income. After threadbare discussion on the issues the floor was open for all to express opini on about the mitigation measures of the probable social and environmental impacts as discussed earlier.

It was found that the people are mainly concern about their relocation on and assistance to be provided by the project for relocation in new site.

| SI | Name                         | Position | Sex  | Opinion   |
|----|------------------------------|----------|------|---|
| 1  | Md Alhaj<br>Abdul<br>Motaleb | Resident | Male | Most of the business enterprises are run by poor people. They have no alternative sources of income. Some wage laborers are engaged in business enterprises such as hotel, tea stall, etc. They will lose their job due to the project. Poor and vulnerable people are living on the RHD land beside the market. They have no alternative land for relocation. So, the project authority should think about relocation of the affected people instead of cash compensation. |

| 2  | Md. Hazrat                                  | Resident | Male   | They have been living on the RHD land as they have no alternative land   |  |
|----|---|----------|--------|--|--|
| 2  | Mu. Haziat<br>Ali                           | Resident | iviale | for living. He urged relocation on Government land by the project instead of compensation money.   |  |
| 3  | Haji Abdul<br>Aziz Dewan                    | Resident | Male   | There is a mosque in the project area that may be affected by the project. People of this area are very poor and they will be unable to relocate in new location by themselves. Their livelihood is mostly attached with this market. He requested the project authority as well as RHD to arrange relocation site for the poor people and the market.   |  |
| 4  | Md.<br>Mofazzal<br>Hossain                  | Resident | Male   | The GOB has acquired land in this area for two times. After that some people became landless and some of them are living in RHD land and within the proposed bridge alignment. As the JICA is financing the project so they a guideline about the squatters and vulnerable people. All of the people living here are vulnerable and they have no scope of relocation. He urged to arrange relocation site in the RHD land. He told that RHD has huge land in this area and they may allocate a portion of the total land for cluster relocation of the household and market. |  |
| 5  | Md. Didar<br>Hossain                        | Resident | Male   | Herequested the project authority not to leave the affected people in worse off condition. He demanded relocation of the affected people in  |  |
| 6  | Md. Monir<br>Hossain                        | Resident | Male   | the JICA is financing the project and hopefully there are some scopes of relocating the poor and vulnerable people. All of the people living here are vulnerable and They have no land for self relocation. The businessmen are dealing in here for long time. He urged relocation of the affected household and shops within RHD land in a safer position. He told that they need no cash compensation but need relocation by the project.  |  |
| 7  | Ms. Jobeda<br>Begum                         | Resident | Female | Tthey have come here in 1988 after losing all assets in devastating flood in that year. She has no land and has only one adult son who is doing wage laboring to shoulder the household responsibility. She urged relocation in new site by the project.   |  |
| 8  | Md. Abdur<br>Rashid<br>(affected<br>person) | Resident | Male   | He is living here for 25 years and earning livelihood by wage laboring. He wants relocation in project sponsored site.   |  |
| 9  | Md. Anwar<br>Hossain                        | Resident | Male   | He requested the project authority to shift bridge alignment a little bit western side avoiding settlement so that displacement of the market and households may be minimized.   |  |
| 10 | Md. Golzer<br>Hossain<br>Bhuyan             | Resident | Male   | He requested to use vacant land and avoid mass displacement of the household and shops.  |  |

The Superintending Engineer informed the participants that the project will look in to the matter to avoid unnecessary displacement. He told that opinion of the people have been noted down and would be discues sed with the project authority. The principle of the project is to assist the affected persons in their relocation as per Donor's guideline and they should be relocated by their own before starting civil construction. The affected

persons were insisted to search alternative location from now as they have about 2 years time in hand to relocate.

The meeting was closed with a vote of thanks from the chair.

**Appendix-A: Attendance Sheet** 

# Preparatory Survey for Dhaka-Chittagong National Highway (N-1) Bridge Construction and Rehabilitation Project Kanchpur, Meghna and Meghna-Gomti Bridge

## Consultation Meeting with affected persons and other stakeholders <u>Attendance Sheet</u>

Date:15/03/2012 Time:12.30 pm

Venue: Tetuitala Bazar Union:Baliakandi Upazila : Gazaria, District: Munshiganj

| SI.<br>No. | Name                                     | Father's<br>Name    | Address   | Mobile<br>Number | Signature |
|------------|--|---------------------|---|------------------|-----------|
| 1          | Md. Mokhlesur Rahman Haji Mijanur Rahman |                     | Tetuitala   | 01676195371      |           |
| 2          | Ahasan                                   | Ahasan L. Chand Mia |   | 01818949508      |           |
| 3          | Hannan Mia                               | Siddique Mia        | Tetuitala   | 01814909590      |           |
| 4          | Farid Uddin Ahmed Md. Moksed Ali         |                     | Sub-Divisional<br>Engineer (Rhd)<br>Narayangonj                       | 01673984504      |           |
| 5          | 5 Dilip Kumar Dash Dhirendro Dash        |                     | Sub-Divisional<br>Engineer (RHD)<br>Narayangonj                       | 01711218969      |           |
| 6          | 6 Toshiyuki Konno                        |                     | Environmental<br>Specialist JICA<br>Study Team                        |                  |           |
| 7          | Eiji Yonezawa                            |                     | JICA Study Team   |                  |           |
| 8          | Shoji Takeo                              |                     | JICA Study Team   |                  |           |
| 9          | Twshar Kanti Saha                        |                     | Executive Engineer (RHD) Narayangonj                                  | 01552600037      |           |
| 10         | 10 Md. Ashraful Alom                     |                     | Superintending Engineer ,RHD, Bridge Division Sarak Bhabon            | 01711609137      |           |
| 11         | 1 Md. Rejaul Karim                       |                     | Executive Engineer,<br>RHD, Bridge<br>Division Sarak<br>Bhabon, Dhaka | 01924964464      |           |
| 12         | Abdur Rahman Kawser                      |                     | Sub-Divisional<br>Engineer (RHD)                                      | 01552451362      |           |
| 13         | Rehana Haque                             |                     | Executive Engineer, RHD, Dhaka  | 01552308166      |           |

| SI.<br>No. | Name                            | Father's<br>Name     | Address                          | Mobile<br>Number | Signature |
|------------|---------------------------------|----------------------|----------------------------------|------------------|-----------|
| 14         | Jahura Sultana                  |                      | Sub-Divisional<br>Engineer (RHD) | 01718159999      |           |
| 15         | Anwar Ali                       | Mujaffor Ali         | Meghna Ghat                      |                  |           |
| 16         | Makbul Bhaiyan                  | Hazi Nur<br>Mohammad | Meghna Ghat                      |                  |           |
| 17         | Siraj Mia                       | Tale Bor             | Tetuitala                        |                  |           |
| 18         | Jaman Mia                       | Md. Alauddin         | Tetuitala                        | 01822256214      |           |
| 19         | Gakul Das                       | Gopal Das            | Tetuitala                        | 01828485207      |           |
| 20         | Sakir                           | Sajahan              | Tetuitala                        | 01818836421      |           |
| 21         | Ziaul Haque Shapon              | Safiullah            | Tetuitala                        | 01813806145      |           |
| 22         | Didar                           | Abdul Based          | Tetuitala                        | 01818895200      |           |
| 23         | Manjur                          |                      | Tetuitala                        |                  |           |
| 24         | Dr. Mofajul                     | Nidul Hazi           | Tetuitala                        | 01819134805      |           |
| 25         | Asadulla                        | L. Ibrahim           | Maimansing                       |                  |           |
| 26         | Hazi Abdul Aziz Dewan           | L. Isob Ali          | Tetuitala                        | 01675545926      |           |
| 27         | Md. Manir                       | Nur Mohammad         | Tetuitala                        | 01819226121      |           |
| 28         | Md. Faisal                      | Siddiqur Rahman      | Tetuitala                        | 01818895443      |           |
| 29         | Hazi A. Motaleb                 | L. Joynal Abedin     | Tetuitala                        | 01814210309      |           |
| 30         | Aman Ullah                      | Razu Mia             | Tetuitala                        |                  |           |
| 31         | Abdul Rashid                    | L. Haider Bepari     | Tetuitala                        |                  |           |
| 32         | Dr. Manikanchon Islam<br>Mahsin | L. Hazi Arob Ali     | Baluakandi                       | 01815411212      |           |
| 33         | Ashok Ali                       | Jakir Hossain        | Tetuitala                        | 01825312816      |           |
| 34         | Md. Anwar                       | L. Moslem            | Tetuitala                        | 01827120742      |           |
| 35         | Md. Milon                       | L. Raza Mia          | Tetuitala                        | 01815419753      |           |
| 36         | Mafijul Islam                   | Moslem Uddin         | Baluakandi                       | 01199825715      |           |
| 37         | Nurul Islam                     | Md. Ali              | Tetuitala                        | 01820182611      |           |
| 38         | Md. Nasir Uddin                 | L. Shajahan          | Tetuitala                        | 01832117425      |           |
| 39         | Akter Hossain                   | L. Ashok Ali Member  | Tetuitala                        | 01816419570      |           |

| SI.<br>No. | Name                        | Father's<br>Name  | Address  | Mobile<br>Number | Signature |
|------------|-----------------------------|-------------------|--|------------------|-----------|
| 40         | Nuruzzaman                  | Abdul Baten Dewan | Tetuitala  | 01827572822      |           |
| 41         | Sham                        | Md. Hazi          | Tetuitala  |                  |           |
| 42         | Md. Josim                   | Hazi A. Razzak    | Tetuitala  | 01618533504      |           |
| 43         | Eman                        | Haten             | Tetuitala  |                  |           |
| 44         | Md. Ruhul Amin              | Ali Hossain       | Tetuitala  |                  |           |
| 45         | Md. Akter Sheikh            | Abdul Based       | Sotoray Para   | 01816069756      |           |
| 46         | Mojibor Hossain             | Md. Fazlul Haque  | Sotoray Para   | 01726440925      |           |
| 47         | Imran Kabir                 | Samir Uddin       | Sotoray Para   | 01818895290      |           |
| 48         | Abdul Gofur                 | Rup Chand         | Tetuitala  | 01825687331      |           |
| 49         | Didarul                     | Sandhidula        | Tetuitala  | 01813971278      |           |
| 50         | Sonil                       | Haron Shil        | Tetuitala  |                  |           |
| 51         | Jane Alom                   | Ashak Sarker      | Raypara  | 01715068532      |           |
| 52         | Sabu                        | Kalai Munshi      | Baluakandi   | 01819132458      |           |
| 53         | Mojammel                    | Iddris Ali        | Tetuitala  | 01818648738      |           |
| 54         | Nando Islam                 | Ali Ullah         | Raypara  | 01815756432      |           |
| 55         | Sabuj                       | Abu Soleman       | Tetuitala  | 01811168201      |           |
| 56         | Akter                       | Manu Mia          | Raypara  | 01812046732      |           |
| 57         | Aman Ullah                  | Ahid Mia          | Raypara  | 01725835980      |           |
| 58         | Awlad                       | Dal Mia           | Bhalua Kandi   |                  |           |
| 59         | Ali Hossain                 | Fazlul Mia        | Tetuitala  | 01190244913      |           |
| 60         | Md. Goulad Hossain          | Abdul Motin       | Tetuitala  | 01714375515      |           |
| 61         | Md. Abu Nahid<br>Muniruddin |                   | Natural<br>Environmental<br>Engineer, JICA<br>Study Team | 01715452920      |           |
| 62         | Kh. Khairul Matin           |                   | Social Environmental Enginner, JICA Study Team           | 01741127736      |           |

### Roads and Highways Department (RHD)

Preparatory Survey for Dhaka-Chaittagong Highway (N-1) Bridge Construction and Rehabilitation Project
Kanchpur Bridge and Meghna-Gomti Bridge

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.8.2012 at 2.30 pm Venue: Kanchpur Bridge (Chittagong end) Senpara, Sonargaon, Narayanganj

A stakeholder meeting (Second Stage) was held on disclosure of the RAP and EIA policy of the project on the August 01, 2012 at 2.30 pm at Kanchpur bridge Chittagong end (under abutment), Senpara, Sonargaon, Narayanganj. The Meeting was presided o ver by Mr. Md. Ashraful Alam, Superintending Engineer, Bridge Design Division, RHD. Among others Ms. Rowshanara Khanam, Superintending Engineer, Social and Environment Circle, RHD, Md. Rejaul Karim, Executive Engineer, Bridge Design Division, RHD, Dhaka, Mr. Yoshimitsu Hiyama, JICA expert, RHD, Mr. Joshio Kimura, Economist, JICA Study Team, Takeo SHOJI Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural Environmental Engineer (Local) and Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and more than 71 local people were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting the RAP and EIA policy (mitigation measures of the project impacts) were disclosed to the affected people using flip chart. The affected people were informed about the meeting through publishing in the newspaper, personal contact from Union leaders verbally, announcement in the mosque, etc. The issues disc losed in the meeting were projec t components and revised alignment by which some people who were registered by previous census as affected people, become as not affected, cut off-date declared during the survey (informed as finally revised to 16<sup>th</sup> March from 08<sup>th</sup> March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, Grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

Mr. Md. Ashraful Alam, Superintending Engineer welcomed all participants in the discussion session and described the project including it's different components. It was disclosed that the Japan Bank for International Cooperation (JICA) will finance the project.

The following issues were disclosed in the meeting

- a. The new bridge will be constructed parallel to the existing bridge within 30 meter to the downstream.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- c. Cut-off date of the census survey was 08 March 2012. It was declared in the first stage consultation meeting.

- d. Methodologies of the survey such as census and socioeconomic survey, inventory of a ffected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii. Grants for wage earners
  - ix. Training on income generating activities for eligible members of vulnerable HHs
  - x. Owners will be allowed to take all salvaged materials free of cost
  - xi. Eligible affected persons will be preferentially employed in civil construction
- g. Grievance redress mechanism and right to submit grievances to the Grievance Redre ss Committee
- h. Compensation payment procedure and role of PAPs, IA and RHD in making payment





Disclosure meeting at Kanchpur Bridge location

Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stage:

- Social Environment
- Natural Environment
- Ecological Environment
- Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on natural and ecological environment and environmental pollution.

| Environmental<br>Impact/Issue |   | Mitigation Measures   |
|-------------------------------|---|---|
| • 0                           | Cultural Heritage   | No mitigation measures are required   |
| • A                           | Accident  | <ul> <li>Follow BRTA rules and Regulations</li> <li>Preparation of Health and Safety Management<br/>Plan (HSMP) including prevention of traffic accidents</li> </ul>  |
| • I                           | River Erosion and<br>Siltation<br>River Transport               | <ul> <li>Construction of sheet pile steel pipe foundation to encounter scouring</li> <li>Follow BIWTA navigation rules and regulations</li> <li>River Traffic control and ensure lighting device Not required</li> </ul>  |
| • B                           | Biota and ecosystem   | <ul> <li>Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils</li> <li>Plantation of 3 times of trees to be cut; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines</li> </ul>                         |
| <ul><li>A</li><li>S</li></ul> | Global Warming Air Pollution Surface and Ground Vater Pollution | <ul> <li>No mitigation measures are required</li> <li>Implement dust suppress plan and routine mitigation measure shall be taken to emitting equipments during construction</li> <li>Increase retention time of the outflow hydraulic fills to increase sedimentation, thus, reduce sediment load to the river</li> </ul> |
|                               | Soil pollution<br>Vaste   | <ul> <li>Removal of Arsenic from newly constructed Wells</li> <li>Oil storage shall be with concrete floor and oil fence</li> <li>Contractor will be required to facilitate proper reuse and disposal plan, and manage the construction waste</li> <li>Dumping of waste at approved dumping sites</li> </ul>              |
|                               | Noise and<br>Vibrations   | <ul> <li>Enforce noise emission standards</li> <li>Regulate the construction process</li> <li>Install barrier if required</li> </ul>  |
|                               | Ground Subsidence<br>fensive Odor                               | • No action required  Proper treatment of camp waste and proper maintenance of heavy equipment etc  |
| • B                           | Bottom sediment   | Treatment of liquid waste before discharged   |
| • L                           | Landscape   | Vegetation of the slope surface of embankment   |

After disclosing the policy of the RAP and EIA the participants were requested to put comments or question on the project policy. The affected people raised some questions about the policy and impact mitigation measures. All of the questions were on resettlement and compensation issues. There were no questions raised on the environmental issues.

It is noted that most of the affected residents agreed with monetary compensation (self relocation)

Details of the questions and answers are presented below-

| Category of<br>Speakers    | Position        | Sex    | Comment/Question   | Answer and Policy of Countermeasure  |
|----------------------------|-----------------|--------|--|--|
| (Male/Female) Md. Alauddin | Shop            | Male   | Sand stake yard beside the   |  |
| Mu. Araudum                | keeper          | Male   | bridge at Ch ittagong end where some laborers are working to load and unload the trucks. Whether they will get compensation/grants or not  | There is no structure of the said business. They are not regu lar wage laborer. The sand businessmen will be given at least 6 months prior notice by the RHD not to stake the sand within the 30 meter area from the existing bridge. Shifting of sand stake yard will move the laborers to the new place of business. No compensation package will be offered to them   |
| Ms. Chan Banu              | Housewife       | Female | Housing structure affected and enumerated. Urged about relocation site if possible as she has no alternative place of relocation.  | The Executive Engineer (RHD): The project will be started probably in early 2014 and you have at least 18 months time in h and to be relocated. There is no enough land to arrange relocation site by the project. All of the affected households should think about alternative relocation site.  From the project compensation for all of the affected properties will be paid that will be helpful to be self relocated.  UP Member: Union Parishad has sent a list of the landless people to the Deputy Commissioner's office (Narayanganj) according to the requirements of the GOB for relocation in new site under GOB rule. Those who receive cash compensation from RHD m ay avail land with adequate cost. The site prepared by local government can be on the Char (sand bar) near to the site. |
| Ms. Begum                  | Housewife       | Female | They have no alternative land<br>for relocation. If there is any<br>opportunity to allocate land to<br>them for relocation, that will be<br>helpful to them.                       | Same answer was given to her describing the land scarcity and entitlements of the resettlement plan as presented in the meeting  |
| Md. Mozammel<br>Hossain    | House<br>renter | Male   | His hotel is affected where some laborers are working. He wants adequate compensation for business and laborers. If possible require relocation site for continuing hotel business | The hotel has been covered under inventory of assets. All of the wage laborers have been enlisted during survey. Household number has been pasted on the wall of structure and video filming has been done. Compensation will be paid according to the policy of the RAP. He is encouraged for self relocation in anywhere after getting compensation as there is no scope of relocation by the project.   |

The Meeting was closed with a vote of thanks from the Chair.

### **Appendix-A: Attendance Sheet**

| Sl. # | Name             | F/H Name           | Address   | Mobile No.  | Signature |
|-------|------------------|--------------------|-----------|-------------|-----------|
| 1     | Amir Hossain     | L. Sultan          | Kanchpur  |             |           |
| 2     | Md. Fazlu Miah   | Md. Asor Ali       | Senpara   |             |           |
| 3     | Md. Abu Talib    | Abdur Rashid       | Senpara   |             |           |
| 4     | Md. Mantu        | Belayet Hossain    | Senpara   | 01823221354 |           |
| 5     | Abdul Alim       | Kasem Ali          | Senpara   |             |           |
| 6     | Jamal Hossain    | Narul Islam        | Senpara   | 01734233156 |           |
| 7     | Md. Hossain Miah | Md. Kanchon Miah   | Senpara   |             |           |
| 8     | Billal           | Abdul Motin        | Senpara   |             |           |
| 9     | Kabir            | Belayet Hossain    | Senpara   | 01715991965 |           |
| 10    | Md. Fazlul Haque | Md. Showkat Ali    | Senpara   | 01832700539 |           |
| 11    | Altaf            | Md. Makbul Hossain | Netrokona | 01745793385 |           |
| 12    | Khademul         | Imdadullah         | Senpara   |             |           |
| 13    | Md. Hatem Ali    | L. Mahidul Islam   | Senpara   |             |           |
| 14    | Akkas Ali        | Hakimuddin         | Senpara   |             |           |
| 15    | Abdul Aziz       | Yousuf Ali         | Senpara   |             |           |
| 16    | Md. Jahir        | Hatem Ali          | Senpara   | 01936132421 |           |
| 17    | Sona             | Gopal              | Senpara   | 01742657553 |           |
| 18    | Md. Jaj Miah     | Md. Amor Ali       | Senpara   | 01738725123 |           |
| 19    | Md. Mahatab      | Ismail             | Senpara   |             |           |
| 20    | Md. Abdur Rahim  | Md. Abdul Barek    | Senpara   | 01944871037 |           |
| 21    | Md. Abdul Barek  | L. Afir Uddin      | Senpara   | 01676424438 |           |
| 22    | Hazi Md. Sirajul | L. A. Shobhan      | Senpara   | 01711056580 |           |
|       |                  | Munshi             |           |             |           |
| 23    | Johora Begum     | L. Matin           | Senpara   |             |           |
| 24    | Begum            | L. Somser Dhali    | Senpara   |             |           |
| 25    | Hajera           | L. Umor Ali        | Senpara   |             |           |
| 26    | Aruna Khatun     | L. Hafiz           | Senpara   |             |           |
| 27    | Anwora           | Md. Wahid Miah     | Senpara   |             |           |
| 28    | Amena Begum      | Md. Wahid Miah     | Senpara   |             |           |

| Sl. # | Name              | F/H Name           | Address | Mobile No.  | Signature |
|-------|-------------------|--------------------|---------|-------------|-----------|
| 29    | Aisha             | L. A. Malek        | Senpara |             |           |
| 30    | Hasna Begum       | Md. Saidul         | Senpara |             |           |
| 31    | Hosnewara         | Md. Ajhir Alom     | Senpara |             |           |
| 32    | Chanbanu Begum    | Abdul Kadir        | Senpara |             |           |
| 33    | Nazma Begum       | Md. Rafique        | Senpara |             |           |
| 34    | Rojina            | L. Shawkot         | Senpara |             |           |
| 35    | Kamla Begum       | L. Hasmot Ali      | Senpara |             |           |
| 36    | Rabia             | Md. Umor Ali       | Senpara |             |           |
| 37    | Shafia            | Md. Umor Ali       | Senpara |             |           |
| 38    | Hawa Begum        | Hazrot Ali         | Senpara |             |           |
| 39    | Aifia Begum       | Abdur Rahim        | Senpara |             |           |
| 40    | Asma Begum        | Md. Farukh Hossain | Senpara |             |           |
| 41    | Zinnatun Nesa     | Nowab Ali          | Senpara |             |           |
| 42    | Nur Jahan Begum   | Alom Hossain       | Senpara |             |           |
| 43    | Meher Banu        | Joynal Hawlader    | Senpara |             |           |
| 44    | Md. Ala Uddin     | L. Hazi Abdul Aziz | Senpara | 01674630278 |           |
| 45    | Md. Moslem Khan   | Hazi Tamij Uddin   | Senpara | 01729737666 |           |
| 46    | Shahor Banu       | L. Ramjan Ali      | Senpara |             |           |
| 47    | Sau Banu          | Jakir Hossain      | Senpara |             |           |
| 48    | Mina Begum        | L. Samed           | Senpara |             |           |
| 49    | Sajeda            | Altaf              | Senpara |             |           |
| 50    | Sabeda            | L. Samad           | Senpara |             |           |
| 51    | Shefali Begum     | Md. Hossain        | Senpara |             |           |
| 52    | Mojammel          | L. Abdul Hamid     | Senpara | 01934023297 |           |
| 53    | Aminul Ahsan      | Matiur Rahman      | Senpara | 01924467026 |           |
| 54    | Tahrun Nesa (Up   | L. Mohammad Ali    | Senpara | 01827367491 |           |
|       | Member)           |                    |         |             |           |
| 55    | Hazi Abdur Rahman | Hazi L. Abadullah  | Senpara | 01195371846 |           |
| 56    | Jahir Ahmmad      | Hatem Ali          | Senpara |             |           |
| 57    | Md. Jaman Khan    | Hazi Tamiz Uddin   | Senpara | 01819174386 |           |
| 58    | Md. Salauddin     | Hazi Abdur Aziz    | Senpara | 01819122167 |           |
| 59    | Md. Abul Kalam    | Hazi A. Barek      | Senpara | 01719828256 |           |

| Sl. # | Name              | F/H Name        | Address | Mobile No.  | Signature |
|-------|-------------------|-----------------|---------|-------------|-----------|
| 60    | Amran Miah        | Babu Bapari     | Senpara | 01673403162 |           |
| 61    | Shahid Miah       | Wahed Ali       | Senpara |             |           |
| 62    | Md. Sultan Khan   | Nazmot Kha      | Senpara |             |           |
| 63    | Md. Fazlu Miah    | Md. Abdul Hakim | Senpara |             |           |
| 64    | Md. Abdul Kuddus  | Md. Godanaz     | Senpara |             |           |
| 65    | Md. Riaz Uddin    | Md. Nasor Uddin | Senpara |             |           |
| 66    | Md. Abdus Sattar  | L. Urbul Mia    | Senpara | 01943106020 |           |
| 67    | Md. Masum         | L. Abu Taher    | Senpara | 01924925882 |           |
| 68    | Md. Umor Ali      | L. Zunnut Ali   | Senpara |             |           |
| 69    | Md. Rafiqul Isalm | L. Hafizullah   | Senpara | 01818310821 |           |
| 70    | Matiur Rahman     | Abdul Malek     | Senpara | 0176409050  |           |
| 71    | Abdul Wahab       | Yousuf          | Senpara | 01940811264 |           |

#### সভায় উপস্থিত ব্যক্তি বর্ণের নাম (Attendance Sheet)

ममसः २'का देशक

व्यक्तिमा ००/०५/००२ रे

সভার স্থানা ক্রাপ্ত পুত মের পাঙ্গ ইউনিয়নঃ ক্রাপ্ত পুত

शानाः यग्रायक्र गा-

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সভায় উপস্থিত ব্যক্তি বর্গের নাম (Attendance Sheet)

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इडिनियनः काठिक

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| क्रम नः | नामः                    | পিতার নামঃ                | विकासाइ          | মোবাইল নম্বরঃ | কাক্ষর। |
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#### সভায় উপস্থিত ব্যক্তি বর্গের নাম (Attendance Sheet)

| मठात ऋ<br>क्रम मः | 4 hrs 2014<br>4 mins 2014 | পতার নামঃ              | ঠিকানাঃ    | থানাঃ (ফ্রানান্ড গ্রা)<br>মোবাইল নম্বরঃ | স্থাক্ষরঃ        |
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| 48                | अध्यार श्रिक्ट            | क्षिक्रमाधिक्षः : जन   | L          | -                                       | 20/25            |
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| 88                | OSTANT (NEX OBMO)         | इ. (कार्यकार्ट्य)      | Li         | 01827367491                             | mazroka          |
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সভায় উপস্থিত ব্যক্তি বর্গের নাম (Attendance Sheet)

ममग्रह २.०० टिम्म

जातियह ०२/०६/०२२ है;

भवाय अन्य - अप्र न्यू ए रिप्न व्याउ

ইউনিয়নঃ কৃতি প্রত

थाना द्वाराज डार

|       |                      | পিতার নামঃ               | ঠিকানাঃ   | মোবাইল নম্বঃ | শ্বাক্ষরঃ |
|-------|----------------------|--------------------------|-----------|--------------|-----------|
| 99    | मरीप पिया            | 3শান্তদ ক্যান্সী         | क्राजाज़- |              | সহিম-     |
| 72    | আ:মুক্তনিখান         | ক্রান্ত ন্যা             | e         |              | Hush      |
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#### Roads and Highways Department (RHD)

# Preparatory Survey for Dhaka-Chaittagong Highway (N-1) Bridge Construction and Rehabilitation Project Kanchpur Bridge and Meghna-Gomti Bridge

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.8.2012 at 12.00 pm Venue: Meghna Bridge (Chittagong end)

Baluakandi, Gozaria, Munshiganj

A stakeholder meeting (Second Stage) was held on di sclosure of the RAP and EIA policy of the project on the August 01, 2012 at 12.00 pm at Meghna bridge Chittagong end (RHD Building), Baluakandi, Gozaria, Munshiganj. The Meeting was presided over by Ms. Rowshanara Khanom, Superintending Engineer, Social and Environment Circle, RHD. Among others, Mr. Md. Ashraful Alam, Superintending Engineer, Bridge Design Division, RHD, Md. Rejaul Karim, Executive Engi neer, Bridge Design Division, RHD, Dhaka, Mr. Yoshim itsu Hiyama, JICA expert, RHD, Mr. Joshio Kim ura, Economist, JICA Study Team, Takeo SHOJI Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Munirud din, Natural Environm ental Engineer (Local) and K h. Khairul Matin Social Environmental Engineer (Local) JICA Study Team. Md. Shamsuddin Prad han (Chairman Baluakandi Union Parishad and Mr. Rafiqul Islam (Chairman Pirojpur Union Parishad) were also present in the meeting. A total of 18 affected people were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting the RAP and EIA p olicy (project Impacts and m itigation measures) were disclosed to the affected people using flip chart. The affected people were inform ed about the meeting through publishing in the newspaper, personal contact, announcement in the mosque, miking, etc. The issues disclosed in the meeting were project components and alignment, cut off-date declared during the survey (15 March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, Grievance r edress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

Ms. Rowshanara Khanom, Superintending Engineer we loomed all participants in the discus sion session and described the project including it's different components. It was disclosed that the Japan Bank for International Cooperation (JICA) will finance the project.

The following issues were disclosed in the meeting

- a. The new bridge will be constructed parallel to the existing bridge within 30 meter to the upstream. In this regards 10 m eter area will be required within HOLCIM Cement Industries boundary at Dhaka end.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.

- c. Cut-off date of the census survey was 15 March 20 12. It was also declared in the first stage consultation meeting.
- d. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii. Grants for wage earners
  - ix. Training on income generating activities for eligible members of vulnerable HHs
  - x. Owners will be allowed to take all salvaged materials free of cost
  - xi. Eligible affected persons will be preferentially employed in civil construction,
- g. Grievance redress mechanism and ri ght to submit grievances to the Gri evance Redress Committee
- h. Compensation payment procedure and role of PAPs, IA and RHD in making payment



Regarding Environmental impacts and m itigation measures, the Envir onmental Specialist explained that that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stage:

- Social Environment
- Natural Environment
- Ecological Environment
- Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environm ental Specialist explained the impacts on natural and ecological environment and environmental pollution.

| Environmental<br>Impact/Issue |  | Mitigation Measures  |
|-------------------------------|--|--|
| •                             | Cultural Heritage  | No mitigation measures are required  |
| •                             | Accident   | <ul> <li>Follow BRTA rules and Regulations</li> <li>Preparation of Health and Safety Management<br/>Plan (HSMP) including prevention of traffic accidents</li> </ul>   |
| •                             | River Erosion and<br>Siltation<br>River Transport<br>Hydrology | <ul> <li>Construction of sheet pile steel pipe foundation to encounter scouring</li> <li>Follow BIWTA navigation rules and regulations</li> <li>River Traffic control and ensure lighting device Not required</li> </ul>   |
| •                             | Biota and ecosystem  Global Warming                            | <ul> <li>Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils</li> <li>Plantation of 3 times of trees to be cut; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines</li> <li>No mitigation measures are required</li> </ul> |
| •                             | Air Pollution  Surface and Ground Water Pollution              | <ul> <li>Implement dust suppress plan and routine mitigation measure shall be taken to emitting equipments during construction</li> <li>Increase retention time of the outflow hy draulic fills to increas e sedimentation, thus, reduce sediment load to the river</li> <li>Removal of Arsenic from newly constructed Wells</li> </ul>        |
| •                             | Soil pollution<br>Waste  | <ul> <li>Oil storage shall be with concrete floor and oil fence</li> <li>Contractor will be require d to facilitate proper reuse and disposal plan, and manage the construction waste</li> <li>Dumping of waste at approved dumping sites</li> </ul>   |
| •                             | Noise and Vibrations   |  |
| •                             | Ground Subsidence<br>Offensive Odor                            | <ul> <li>No action required</li> <li>Proper treatment of camp waste and proper maintenance of heavy equipment etc</li> </ul>   |
| •                             | Bottom sediment  | • Treatment of liquid waste before discharged  |
| •                             | Landscape  | • Vegetation of the slope surface of embankment  |

After disclosing of the RAP and EIA policy the participants were requested to put comment s or question on the policy. The local Union

| Name                  | Position                      | Sex  | Comment/Question   | Answer and Policy of Countermeasure  |
|-----------------------|-------------------------------|------|--|--|
| Md. Meher<br>Ullah    | Shop<br>keeper                | Male | His business structure is affected by the proje ct. During survey (March 2012) his structure was made of CI sheet but after that he changed category of structure and now it is Semi pucca (brick and wall w ith CI sheet roof). Will he get compensation for changed category of structure?   | The census survey and inventory of asset survey was started on March 15 2012 and that date was declared as the cut-off date. After the established cut-off date no changes in quality of quantity of structure will be entertained. So, he will get compensation for the category which was written during survey.                             |
| Shamsuddin<br>Pradhan | Chairman,<br>Baluakandi<br>UP | Male | The policy so far described is well and the people will not be worse off if it is properly implemented. He thanked to the RHD and especi ally JICA for introducin g this policy for poor businessmen. He urged to make pay ment without hassle so that t he affected people will not face any trouble. He ensures extending all sorts of cooperation to the proj ect authority from his end. | It was ensu red that the affected people will be paid compensation/resettlement benefits without hassle and cheques will be handed over at site in presence of the local chairmen or members. It was also informed that the affected people would be ready to vacate the project site within 30 days from the date of payment of compensation. |

The meeting was closed with a vote of thanks from the chair.

## **Appendix-A:Attendance Sheet**

| SL. | Name    |            | Father's Name: | Address            | Mobile No.  | Signature |
|-----|---------|------------|----------------|--------------------|-------------|-----------|
| 1   | Md.     | Samasuddin |                | Charman Baluakandi | 01816896724 |           |
|     | Prodhan |            |                | UP                 |             |           |

| 2  | Md. Shahajan       | L/ Hares Ali       | Jamaldi I Bus Stand | 01831544232  |
|----|--------------------|--------------------|---------------------|--------------|
| 3  | Md. Rafiqul Islam  | Li Haies i Hi      | Chairman Pirojpur   | 01711538217  |
|    |                    |                    | Up                  |              |
| 4  | Md. Abul           | L/ Musha           | Jamaldi Bus Stand   |              |
| 5  | Sree Swapan Chadra | L/ Rahini Chadra   | Jamaldi Bus Stand   | 01826516661  |
|    | Shil               | Shil               |                     |              |
| 6  | Md. Meherullah     | L/Hasem Dewan      | Taital Tola         | 01813955442  |
| 7  | Md. Azanur Islam   | Md. Hobi Mihan     | Taital Tola         | 01815700482  |
| 8  | Md. Sahin          | Motiur Rahman      | Taital Tola         | 01832530199  |
|    |                    | Khan               |                     |              |
| 9  | Md. Rajib Hossain  | Md. Jorj Mia       | Boro Vater Char     | 01822881300  |
| 10 | Md. Rabin          | Motiur Rahman      | Taital Tola         | 01813017402  |
| 11 | Md. Abul Hasan     | Nurul Haque        | Char Mozlipur       | 01829289137  |
| 12 | Md. Mozammel       | Md. Oliullah       | Chadpur             | 01714373008  |
|    | Hossain            |                    | •                   |              |
| 13 | Md. Jilani         | Abdul Khalek       | Taital Tola         | 01812750069  |
| 14 | Md. Sumon          | Md. Nurul Islam    | Taital Tola         | 01913847753  |
| 15 | Md. Gulzar         | Md. Hafiz Uddin    | Taital Tola         | 018440016612 |
| 16 | Md. Sumon Prodhan  | Abdul Motin        | Tangrarchar         | 01824056579  |
|    |                    | Prodhan            |                     |              |
| 17 | Md. Abul Badsha    | L/Azimuddin        | Islampur            | 01837646472  |
| 18 | Raton Chadra Das   | L/ Jitendro Chadra | Islampur            |              |
|    |                    | Das                |                     |              |

সভায় উপস্থিত ব্যক্তি বর্গের নাম (Attendance Sheet)

मभग्रह 32'00 EV

वातिषः ०२/०४/००८-२ः /

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#### Roads and Highways Department (RHD)

# Preparatory Survey for Dhaka-Chaittagong Highway (N-1) Bridge Construction and Rehabilitation Project Kanchpur Bridge and Meghna-Gomti Bridge

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.8.2012 at 10.00 am

Venue: Gumti Bridge (Chittagong end) Doudkandi, Comilla

A stakeholder meeting (Second Stage) was held on di sclosure of the RAP and EIA policy of the project on the 1<sup>st</sup> August 2012 at 10.00 am at Gu mti bridge Chittagong end (under abutment), Doudkandi , Comilla. The Meeting was presided over by Mr. Md. Ashraful Alam, Superintending Engineer, Bridge Design Division, RHD. Am ong others Ms. Rowshanara Kh anam, Superintending Engineer, Social and Environment Circle, RHD, Mr. Md. Rejaul Karim, Executive Engineer, Bridge Design Division, RHD, Dhaka, Mr. Yoshim itsu Hiyama, JICA expert, RHD, Mr. Joshio Kim ura, Economist, JICA Study Team, Mr. Takeo SHOJI, Japanese Environmental Specialist of the JICA Study Team, Mr. Abu Nahid Muniruddin, Natural Environmental Engineer (Lo cal) and Kh. Khairul Matin Social Environm ental Engineer (Local) JICA Study Team and more than 30 local people were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting the RAP and EIA polic y (mitigation measures of the project i mpacts) were disclosed to the affected people using flip chart. The affected people were inform ed about the meeting through publishing in the newspaper, personal contact, announcement in the mosque, etc. The issues disclosed in the meeting were project components and alignment, cut off-date declared during the survey (15 March 2012), Methodologies adop ted for conducting survey, findings of the survey, entitlement matrix as prescribed in the RAP, Gri evance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

Mr. Md. Ashraful Alam, Superintending Engineer welcomed all participants in the discussion session and described the project including it's different components. It was disclosed that the Japan Bank for International Cooperation (JICA) will finance the project.

The following issues were disclosed in the meeting

- a. The new bridge will be constructed parallel to the existing bridge within 30 m eter to the downstream.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- c. Cut-off date of the census survey was 15 Marc h 2012. It was declared in the first stage consultation meeting.

- d. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii. Grants for wage earners
  - ix. Training on income generating activities for eligible members of vulnerable HHs
  - x. Owners will be allowed to take all salvaged materials free of cost
  - xi. Eligible affected people will be preferentially employed in civil work
- g. Grievance redress mechanism and ri ght to submit grievances to the Gri evance Redress Committee
- h. Compensation payment procedure and role of PAPs, IA and RHD in making payment





Disclosure meeting at Gumti Bridge location

Regarding Environmental impacts and m itigation measures, the Envir onmental Specialist explained that that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stage:

- Social Environment
- Natural Environment
- Ecological Environment
- Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environm ental Specialist explained the impacts on natural and ecological environment and environmental pollution.

| Environ<br>Impact | nmental<br>/Issue  | Mitigation Measures   |
|-------------------|--|---|
| •                 | Cultural Heritage  | No mitigation measures are required   |
| •                 | Accident   | <ul> <li>Follow BRTA rules and Regulations</li> <li>Preparation of Health and Safety Management<br/>Plan (HSMP) including prevention of traffic accidents</li> </ul>  |
| •                 | River Erosion and<br>Siltation<br>River Transport<br>Hydrology   | <ul> <li>Construction of sheet p ile steel pip e foundation to enco unter scouring</li> <li>Follow BIWTA navigation rules and regulations</li> <li>River Traffic control and ensure lighting device Not required</li> </ul>   |
|                   | Biota and ecosystem  | <ul> <li>Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils</li> <li>Plantation of 3 times of trees to be cut down; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines</li> </ul>  |
| •                 | Global Warming Air Pollution  Surface and Ground Water Pollution | <ul> <li>No mitigation measures are required</li> <li>Implement dust suppress plan and rout ine mitigation measure shall be taken to emitting equipments during construction</li> <li>Increase retention time of the outflow hy draulic fills to increas e sedimentation, thus, reduce sediment load to the river</li> <li>Removal of Arsenic from newly constructed Wells</li> </ul> |
| •                 | Soil pollution<br>Waste  | <ul> <li>Oil storage shall be with concrete floor and oil fence</li> <li>Contractor will be required to facilitate proper reuse and disposal plan, and manage the construction waste</li> <li>Dumping of waste at approved dumping sites</li> </ul>   |
|                   | Noise and Vibrations   | <ul> <li>Enforce noise emission standards</li> <li>Regulate the construction process</li> <li>Install barrier if required</li> </ul>  |
| •                 | Ground Subsidence<br>Offensive Odor                              | <ul> <li>No action required</li> <li>Proper treatment of camp waste and proper m aintenance of heavy equipment etc</li> </ul>   |
| •                 | Bottom sediment  | • Treatment of liquid waste before discharged   |
| •                 | Landscape  | • Vegetation of the slope surface of embankment   |

After disclosure of t he RAP and EIA policy the participants were requested to r aise comments/questions on the polic y. At least 3 affect ed people raised their voices on the compensation payment process and project facilities

The issues so far raised by the participants are presented below-

| Name                   | Position       | Sex  | Comment/Question   | Answer and Policy of Countermeasure  |
|------------------------|----------------|------|--|--|
| Md.<br>Abdul<br>Zalil  | Shop<br>keeper | Male | Compensation package so far disclosed for the affected people is enough but it would be ensured that this amount would be directly paid to the entitled persons. If it is paid through any intermediary persons, the affected persons will not get full amount | The compensation amount will be paid to the entitled persons through account pay ee cheque at their door step issuing prior notice regarding date venue and time of handing over cheques.  There will be no middle man to help them rather the RHD will engage one NGO or consulting firm as RAP i mplementing Agency to assist RHD and as well as the affected people in compensation payment procedure.  |
| Mr. Md.<br>Khokon      | Shop<br>keeper | Male | How many months will require to start civil construction of the project? How many times we may continue business at present location? How is the size and outlook of the proposed bridge.  | The project is scheduled to be started in early 2014 and you have at least 18 months time in hand to vacate the project site. Before construction is started every one will have to leave the place and encumbrance free land will be handed over to the contractor.  The length of the proposed bridge is 1410 meter and width is 17.45 meter. This will be constructed a very closed to the existing one and distance between these two bridges will be less than one meter. |
| Md.<br>Enamul<br>Haque | Shop<br>keeper | Male | The local people especially the affected people should get op portunity to work in civil construction. Is there any provision in the project to engage affected people in civil construction?  | According to the policy of the Resettlement Action Plan, the affected people will be preferentially employed in civil construction where possible.  During implementation of the project labor contracting society will be formed to bargain collectively for seeking job and getting salary while they are in job.  |

The meeting was closed with a vote of thanks from the chair.

#### **Appendix-A: Attendance Sheet**

| SL. | Name              | Father's Name: | Address     | Mobile No.  | Signature |
|-----|-------------------|----------------|-------------|-------------|-----------|
| 1   | Abul Kasem Sarker | L. Asimuddin   | Chasir Char | 01812276482 |           |
|     |                   | Sarker         |             |             |           |
| 2   | Rafiq Molla       | L. Idris Molla | Chasir Char | 01812276482 |           |

| 3  |                   | L. Jonal Abedin    | Donar Char        | 01715220928 |
|----|-------------------|--------------------|-------------------|-------------|
|    | Sarker            |                    |                   |             |
| 4  | Md. Roston Ali    | Abdul Aziz         | Daudkandi Bridge  |             |
| 5  | Md. Ali Mia       | Md. Bachu Munsi    | Chasir Char       | 01940800831 |
| 6  | Md. Abdul Jalil   | L. Abid Mia        | Daukandi Bridge   | 01821985260 |
| 7  | Md. Khokon Mia    | Md. Rafiq Molla    | Daukandi Bridge   | 01924619071 |
| 8  | Md. Jahir Alom    | L. Abdul Mazid     | Daukandi Bridge   | 01927384190 |
|    |                   | Bhuiyan            |                   |             |
| 9  | Md. Babul Bihari  | L. Loni Bhari      | Daukandi Bridge   | 01711980468 |
| 10 | Md. Khwaza Mian   | L. Shorab Ali      | Char Chasi        | 01715707015 |
| 11 | Md. Robiul        | L. Kalai Mia       | Char Chasi        | 01813303033 |
| 12 | Md. Nur Nobi      | Md. Raza Mia       | Nosir Uddin       | 01822816621 |
| 13 | Md. Jahangir Alom | Md. Rustom Ali     | Donar Char        | 01819445843 |
| 14 | Md. Nobi Hossain  | L. Lal Mia Munshi  | Chashir Char      | 01721334565 |
| 15 | Md. Khalil Mia    | L. Sha Alom        | Chashir Char      | 01911186077 |
| 16 | Sri Prodip Ghos   | L. Gopal Chadra    |                   |             |
|    | •                 | Ghos               |                   |             |
| 17 | Md. Akul          | L. Abdul Goni      | Chashir Char      | 01815061536 |
|    |                   | Munshi             |                   |             |
| 18 | Md. Abdul Rashid  | L. Hossain Munshi  | Chashir Char      |             |
| 19 | Md. Shiraj Bapari | L. Ibrahim Bapari  | Daudkandi         | 01945382366 |
| 20 | Md. Ali           | L. Hasan Molla     | Uttar Nosir Uddin |             |
| 21 | Md. Khokon        | Hazi Abul Kasem    | Chashir Char      | 01818538971 |
| 22 | Md. Kanu Prodhan  | Md. Khorsed        | Donar Char        | 01680260575 |
|    |                   | Prodhan            |                   |             |
| 23 | Md. Shahadat      | Md. Alom Mia       | Donar Char        | 01676230296 |
| 24 | Md. Alom Mia      | L. Shirajul Islmal | Daudkandi Bridge  | 01833811333 |
| 25 | Md. Jakir Hossain | L. Mokbul Hossain  | Daudkandi Bridge  |             |
| 26 | Md. Abul Islam    | L. Bozlur Rahman   | Donar Char        | 01714335863 |
| 27 | Sri Kris Das      | Sri Jamini Das     | Daudkadi          |             |
| 28 | Md. Abu Mia       | L. Nowas Uddin     | Donar Char        | 01929644377 |
| 29 | Md. Nizam         | L. Mozibor         | Donar Char        | 01745166127 |
|    |                   | Rahman             |                   |             |
| 30 | Md. Alo M         | L. Chatu Munshi    | Char Chasi        |             |

সভায় উপস্থিত ব্যক্তি বর্গের নাম (Attendance Sheet)

-012 20.00 SIER

जिन्दः 02/08/022 दिः ।

मनाव क्राना (क्षाध्यमा रभाव्यक्ति बीद- क्लानग्रना भग्डेभ क्षानित (क्षोक्षक) थानाव भग्डेभ क्षानित

| क्रम मर      | नामङ                           | পিতার নামঃ             | <i>डिकामा</i> 8    | মোবাইল নম্বরঃ | শ্বক্রা             |
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সভায় উপস্থিত ব্যক্তি বর্গের নাম

(Attendance Sheet)

जातिकः ०२/०४/०३२ रेः

ममग्रह ३०.००८८

मनात काना भारत करिया की विकास कार्या कार्या वाना भारत करिया

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### Roads and Highways Department (RHD)

### Preparatory Survey for Dhaka-Chaittagong Highway (NH-1) Bridge Construction and Rehabilitation Project

### Kanchpur, Meghna and Gumti Bridges

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.09.2012 at 2.30 pm Venue: Kanchpur Bridge (Chittagong end) Senpara, Sonargaon, Narayanganj

A stakeholder meeting (Third Stage) was held on disclosure of the RAP and EIA policy of the project on September 01, 2012 at 2.30 pm at Kanchpur bridge Chittagong end (under abutment), Senpara, Sonargaon, Narayanganj. The Meeting was presided over by Mr. Md. Golam Mostofa, Sub-divisional Engineer, Bridge Maintenance Division, RHD. Furthermore, Mr. Farid Uddin Ahmed, Sub-divisional Engineer, Narayanganj Road Division, RHD, Toshiyuki Konno, Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural Environmental Engineer (Local), Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and 72 local people (male 32 and female 40) were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting, policies of the RAP and EIA (mitigation measures of the project impacts) were disclosed to the affected people using flip chart. On August 01, 2012, these policies were disclosed, but due to JICA requirements and some changes in the policy, disclosure of the policy requires again. The affected people were informed about the meeting through publishing in the national daily newspaper (Both Bengali and English daily), personal contact, announcement in the mosque, etc. The disclosed issues in the meeting were project components and alignment, cut off-date declared during the survey (16 March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, Grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

The president of the consultation meeting welcomed all participants in the discussion session and described the project including the different components. It was disclosed that the Japan International Cooperation Agency (JICA) will finance the project.

The following issues were disclosed in the meeting

- 1. The new bridge will be constructed parallel to the existing bridge within 30 meter to the downstream.
- 2. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- 3. Cut-off date of the census survey was 16 March, 2012.
- 4. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- 5. Findings of the survey and impact of the project
- 6. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows:
  - 1. Replacement value of the affected structures, trees and other assets
  - 2. Transfer grants and re-installation grants for structure
  - 3. Grants for alternative housing
  - 4. Grants for loss of business
  - 5. Moving assistance for tenants businessmen
  - 6. Grants for vulnerable households
  - 7. Grants for female headed households
  - 8. Grants for wage earners
  - 9. RHD employees will be eligible for compensation and other assistances for the structures erected by themselves
  - 10. Training on income generating activities for eligible members of vulnerable HHs
  - 11.Owners will be allowed to take all salvaged materials free of cost
  - 12. Eligible affected persons will be preferentially employed in civil construction
- 13. Grievance redress mechanism and right to submit grievances to the Grievance Redress Committee
- 14. Compensation payment procedure and role of PAPs, IA and RHD in making payment





Disclosure meeting at Kanchpur Bridge location

Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stages of the project:

- 1. Social Environment
- 2. Natural Environment
- 3. Ecological Environment
- 4. Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on the following natural and ecological environment and environmental pollution and mitigation measures.

Environmental Impact/Issue. Mitigation Measures.

| Envir | onmental Impact/Issue | Mitigation Measures  |
|-------|-----------------------|--|
| 1.    | Cultural Heritage     | No mitigation measures are required  |
| 2.    | Accident              | 1. Follow BRTA rules and Regulations   |
|       |                       | 2. Preparation of Health and Safety Management   |
|       |                       | Plan (HSMP) including prevention of traffic accidents  |
| 1.    | River Erosion and     | d1. Construction of sheet pile steel pipe foundation to encounter  |
|       | Siltation             | scouring   |
| 2.    | River Transport       | 1. Follow BIWTA navigation rules and regulations   |
|       |                       | 2. River Traffic control and ensure lighting device  |
| 3.    | Hydrology             | Not required   |
| 1.    | Biota and ecosystem   | 1. Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils |
|       |                       | 2. Plantation of 3 times of trees to be cut; Tree planting will be carried out                             |
|       |                       | through the RHD Tree-planting Unit, in conformity with their existing guidelines                           |
| 3.    | Global Warming        | 1. No mitigation measures are required   |
| 2.    | Air Pollution         | 3. Implement dust suppress plan and routine mitigation measure   |
|       |                       | shall be taken to emitting equipments during construction  |
| 4.    | Surface and Ground    | <b>.</b>   |
|       | Water Pollution       | sedimentation, thus, reduce sediment load to the river   |
|       |                       | 6. Removal of Arsenic from newly constructed Wells   |
| 1.    | Soil pollution        | 1. Oil storage shall be with concrete floor and oil fence  |
| 2.    | Waste                 | 1. Contractor will be required to facilitate proper reuse and disposal                                     |
|       |                       | plan, and manage the construction waste  |
|       |                       | 2. Dumping of waste at approved dumping sites  |
| 3.    | Noise and Vibrations  | 4. Enforce noise emission standards  |
|       |                       | 5. Regulate the construction process   |
|       |                       | 6. Install barrier if required   |
| 7.    | Ground Subsidence     | 1. No action required  |
| 4     | 2. Offensive Odor     | Proper treatment of camp waste and proper maintenance of heavy   |
|       |                       | equipment etc  |
| 1.    | Bottom sediment       | Treatment of liquid waste before discharged  |
| 2.    | Landscape             | Vegetation of the slope surface of embankment  |

After disclosing the policy of the RAP and EIA the participants were requested to put comments or question on the project policy. The affected people raised some questions about the policy and impact mitigation measures. All of the questions were on resettlement and compensation issues. There were no questions raised on the environmental issues

Details of the questions and answers are presented below-

| Category of Speakers Occupation (Male/Female) | Comment/Question                                      | Answer and Policy of Countermeasure  |
|---|---|--|
| Ms. Meher Banu Housewife (Female)             | along with<br>structures. Whether<br>well was counted | affected All of the structures including tube wells, housing toilets and other secondary structures have the tube been enlisted during inventory of losses or not. (IOL). Compensation has been determined will be based on current cost of the tube wells and |

paid for tube well

other structures. The unit rate has been collected from businessmen and other knowledgeable people of the locality. So, compensation for all affected structures be paid at a time implementation of the project.

Md. Moklesur Businessmen Rahman

There sandThis issue was discussed in last disclosure some are business enterprises beside meeting held on August 01, 2012. There are the bridge. Some laborers no structures of the sand businessmen in are working for loading sandthe bridge location. And we have at least 15 on the truck and unloading itmonths time to start civil works of the from the barge. Whetherbridge. The sand businessmen will be entitled are for officially noticed few months ahead of starting construction not to stake sand compensation or not. within required area of the proposed bridge. So, income and livelihood of the businessmen and wage laborers will not be disturbed and this is why they will not be eligible for compensation/assistance.

Ms. Jan **Banu** Housewife (Female) (Squatter)

They have some fruit All of the within the proposed area have bearing and timber type trees been counted and as per policy of the RAP (Mango, Rain tree) besidetrees owners will be paid compensation

their houses. Whether they will get compensation for these trees or not.

Md. Omar Ali (Male) Squatter

(Residence)

His residential premises are Compensation will be paid at the door steps affected by the project and of the affected people. A property adequate assessment and valuation committee will demanded compensation for them.be responsible to determine the unit price Compensation is to be paid of the affected properties. Only entitled entitledpersons the to will be persons but not via the local compensation/assistance through account government representatives payee cheques. or any one.

The opinion of the participants were sought on the policy so far described in the meeting and requested to put comments on it if there is any confusion or suggestion on it. They raised their voices in favour of the policy and expressed satisfaction on the policy. They requested to implement the policy as it was disclosed

It was ensured that the RAP will be implemented in proper way and hopefully implementation of the RAP will help the APs to uphold their standard of living. There were no issues to discuss more and the meeting was closed with a vote of thanks from the Chair.

### **Appendix-A: Attendance Sheet**

### Preparatory Survey for Dhaka-Chittagong National Highway (NH-1) Bridge Construction and Rehabilitation Project Kanchpur, Meghna and Gumti Bridge Attendance Sheet

Time:02.30 pm Date:01-09-2012

Meeting Place: Kanchpur Bridge Union: Thana: Sonargong

| SI.    | Name                     | Sex          | F/H                            | Address              | Mobile Number | Signature |
|--------|--------------------------|--------------|--------------------------------|----------------------|---------------|-----------|
| No#    | Atil: Hoos:              | Mala         | Name                           | Commons              | 01022710542   |           |
| 1<br>2 | Atik Hasan<br>Sukkar Ali | Male<br>Male | Amzad Hossain<br>Md. Rahim Mia | Senpara              | 01932718542   |           |
| 2      | Md. Moklesu              |              | IVIO. Kanim IVIIa              | Senpara              |               |           |
| 3      | Rahman                   | riviale      | Hazi Abdul Barek               | Senpara              | 01913459212   |           |
| 4      | Japani Raju              | Male         | Asaduzzaman                    | Kanchpur             | 01827594920   |           |
| 5      | Md. Safiqul Islam        | Male         | Abul Kalam                     | Kanchpur             | 01677865994   |           |
| 6      | Shah Jalal               | Male         | Mahmud Ali                     | West Bahakoir        | 01922038197   |           |
| 7      | Hatem Ali                | Male         | L. Mohid Ali                   | Senpara              | 01191482705   |           |
| 8      | Md. Hanif                | Male         | Ramiz Uddin                    | Senpara              | 01714571826   |           |
| 9      | Md. Mohasin              | Male         | Abdul Razzak                   | Senpara              | 01815130509   |           |
| 10     | Ibrahim                  | Male         | Md. Suboj                      | Senpara              | 01939411451   |           |
| 11     | Md. Fazlul Haque         | Male         | L. Sawkat Ali                  | Senpara              | 01832700539   |           |
| 12     | Sabbir                   | Male         | L. Abdul Samad                 | Senpara              | 01813116172   |           |
| 13     | Md. Mantu                | Male         | L. Belayet Hossain             | Senpara              | 01823221354   |           |
| 14     | Subuj                    | Male         | L. Asguk Ali                   | Senpara              |               |           |
| 15     | Md. Al-Amin              | Male         | Md. Omar Ali                   | Senpara              | 01961550919   |           |
| 16     | Md. Rafiqul              | Male         | L. Hafiz Ullah                 | Senpara              | 01818310827   |           |
| 17     | Hazi Sirajul Islam       | Male         | L. Abdul Sobahar<br>Monshi     | <sup>1</sup> Senpara | 01711056580   |           |
| 18     | Shekh Md. Nader          | Male         | L. Abdul Karim                 | Senpara              |               |           |
| 19     | Hossain Mia              | Male         | Md. Kanchun Mia                | Senpara              |               |           |
| 20     | Sumon                    | Male         | Md. Ali Mia                    | Senpara              | 01940398376   |           |
| 21     | Md. Hira                 | Male         | Md. Samad Monsi                | Senpara              |               |           |
| 22     | Taslima                  | Female       | Joj Miah                       | Senpara              |               |           |
| 23     | Howya                    | Female       | Hazrat Ali                     | Senpara              | 01937429873   |           |
| 24     | Asma                     | Female       | Md. Faruk Hossain              | Senpara              |               |           |
| 25     | Chan Banu                | Female       | Kadir                          | Senpara              | 01674725033   |           |
| 26     | Rabeya                   | Female       | Nur Ali                        | Senpara              |               |           |
| 27     | Fazila                   | Female       | L. Sawkat Ali                  | Senpara              | 01933898009   |           |
| 28     | Meher Banu               | Female       | Joynal                         | Senpara              | 01923850248   |           |
| 29     | Aysa                     | Female       | Abdul Malek                    | Senpara              |               |           |
| 30     | Hazera Khatun            | Female       | L. Omar Ali                    | Senpara              |               |           |
| 31     | Safia Khatun             | Female       | Md. Omar Ali                   | Senpara              |               |           |
| 32     | Sahinur Begum            | Female       | Sultan                         | Senpara              | 01734314547   |           |
| 33     | Minar Begum              | Female       | Nurul Haque<br>Howlader        | eSenpara             |               |           |
| 34     | Amena Begum              | Female       | Ohid Miah                      | Senpara              |               |           |
| 35     | Hosne Ara                | Female       | Jahir Alom                     | Senpara              | 01839174682   |           |
| 36     | Rojina Begum             | Female       | Lokman Hakim                   | Senpara              | 01833278182   |           |
| 37     | Sahanaj Begum            | Female       | Nurul Huda                     | Senpara              | 01962419012   |           |
| 38     | Mina Begum               | Female       | L. Samed                       | Senpara              |               |           |
| 39     | Sofada                   | Female       | Samad Mollah                   | Senpara              |               |           |

| SI.<br>No#                 | Name   | Sex  | F/H<br>Name   | Address   | Mobile Number | Signature |
|----------------------------|--|--|---|---|---------------|-----------|
| 40<br>41<br>42<br>43<br>44 | Rokeya<br>Anowara<br>Johara<br>Joynob<br>Nunehar | Female<br>Female<br>Female<br>Female<br>Female | Mintu<br>Sirazul Islam<br>L. Motin<br>Md. Yakub Ali<br>Abul Kalam | Senpara<br>Senpara<br>Senpara<br>Senpara<br>Senpara | 01825547790   |           |
| 45                         | Dulufa   | Female   | Billal  | Senpara   |               |           |
| 46                         | Begum  | Female   | L. Somser   | Senpara   |               |           |
| 47                         | Omar Ali   | Male   | L. Jinnat Ali   | Senpara   |               |           |
| 48                         | Sorbanu  | Female   | Jakir   | Senpara   |               |           |
| 49                         | Nazma Begum                                      | Female   | Rafiq   | Senpara   |               |           |
| 50                         | Sefali Begum                                     | Female   | Md. Hossain   | Senpara   |               |           |
| 51                         | Sajeda Begum                                     | Female   | Altaf   | Senpara   |               |           |
| 52                         | Rijia  | Female   | Riyaz Ali   | Senpara   |               |           |
| 53                         | Yakub Ali  | Male   | Abdul Malek   | Senpara   | 01918159301   |           |
| 54                         | Altaf Hossain                                    | Male   | Azit Howlader   | Senpara   |               |           |
| 55                         | Hossain Miah                                     | Male   | L. Kanchon Mia  | Senpara   |               |           |
| 56                         | Sirajul Islam                                    | Male   | Abdul Gafar   | Senpara   | 01825547790   |           |
| 57                         | Jahangir Hossain                                 | Male   | L. Abdul Latif  | Senpara   | 01742002993   |           |
| 58                         | Nurul Huda                                       | Male   | L. Karim  | Senpara   | 01962419012   |           |
| 59                         | Arun Begum                                       | Female   | L. Hafij Ullah  | Senpara   |               |           |
| 60                         | Kolpona  | Female   | Yakub   | Senpara   |               |           |
| 61                         | Noyab Ali  | Male   | L. Hafij Ali  | Senpara   |               |           |
| 62                         | Mokles Miah                                      | Male   | Renu Miah   | Senpara   | 01927498244   |           |
| 63                         | Md. Monir Hossain                                | Male   | L. Abdul Samad  | Senpara   | 01913951307   |           |
| 64                         | Ruma   | Female   | Mohasin   | Senpara   |               |           |
| 65                         | Anoawra  | Female   | Ohid  | Senpara   |               |           |
| 66                         | Aysa Khatun                                      | Female   | L. Mofij Uddin  | Senpara   |               |           |
| 67                         | Sahar Banu                                       | Female   | L. Ramjan   | Senpara   |               |           |
| 68                         | Parul Begum                                      | Female   | Osman Gazi  | Senpara   | 01814849680   |           |
| 69                         | Hasina Begum                                     | Female   | Saidul  | Senpara   | 01948755394   |           |

### Annex 7 EIA & RAP disclosure meeting -2

| SI.<br>No# | Name         | Sex    | F/H<br>Name | Address | Mobile Number | Signature |
|------------|--------------|--------|-------------|---------|---------------|-----------|
| 70         | Hasan Mahmud | Male   | Saidul      | Senpara | 01938696497   |           |
| 71         | Razia Begum  | Female | Kawser      | Senpara |               |           |
| 72         | Nasima Begum | Female | Saju Miah   | Senpara | 01935000129   |           |

সময় : 2.30 pm\_
সভার স্থান : 415 বি

ইউনিয়ন/ওয়ার্ডঃ

তারিখঃ 01.09.12

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| ۵.         | യ്യാര് ചുത്          | তামবাদ ছো:         | ( CODSTO        | 01932-718542              | aupa         |
| 2.         | अर्देश काणी          | (ফা: রণ্থিম থিপ    |                 |                           | 570/37s      |
| v,         | অমুথ প্রেক্তার ইত্যা | र शकी काः यास्त्र  | - 1)            | 01913-459212              |              |
| 8.         | जानानी द्वीक         | व्याध्यापूर्वकाणान |                 | 01827594920               | are,         |
| C.         | (माः शिक्ते देः      | 7                  |                 | 01677-865990              | Mershar      |
| <b>y</b> . | अध्यक्ति देगाल       | भाज्योप व्यामी     | পাপি ম প্রাহারি | 501922038197              | ga-          |
| 9-         | व्याक्रिय भारी       |                    |                 |                           |              |
| 6.         | (राः शार्येश         | यात्रक किला        |                 |                           |              |
| -          |                      | _                  |                 | 0176337520<br>01714571826 | 21/0/201     |
| 7          | (DI: 202 Tens        | न्याः याद्वारः     | И               | 01815-130509              | Lanaans )    |
| 20         | 331212               | (माः वयुद्         | n               | 01939411451               | 23/2/18      |
| 22         | মো: ফাড়ানুন হল      | - প্রতঃ পরকতআঃ     | И               | 01832-700539              | Se Roman     |
| 2          | भारिक व्             | मःकाः भागाप        | V               | 01813-116172              | 3710-83      |
| OC.        | (মা: খামপু-          | ক্রঃ বিশারেত জ্যা  | : 4             | 01823-221350              | बाराष्ट्रं   |
| 28.        |                      | कें आधार म         |                 |                           | -            |
| 20.        |                      |                    | 11              | 01961550919               | Beend gra    |
| 25.        | (চাঃ ব্যাম কুল       | २०: या रिक्टिया    | ч               | 01848310827               | 7 7/12/25/12 |
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| 27         | (Dt) (20)            | भार भागा भूनी      |                 |                           | 1200         |

अभय : 2.30 Pm

তারিখ : 01-09-2012

সভার স্থানঃ হলৈওমূত

ইউনিয়ন/ওয়ার্ডঃ

थाना : (Spmo smis

| क्य | নামঃ   | পিতার নামঃ               | ঠিকানাঃ | মোবাইল নম্বরঃ | স্বাক্ষরঃ |
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**Attendance Sheet** তারিখঃ 01-09-012 থানাঃ (১৮১৩-১৮)প্র ममग्न : 2.30 pm সভার স্থানঃ থ্রটিচ প্রপ্র ইউনিয়ন/ওয়ার্ডঃ পিতার নামঃ নামঃ

मग्र : 2.30 pm

চারিখ ঃ81 -09 - 2012

সভার স্থান ঃ ১৯৪৪ ৯০

ইউনিয়ন/ওয়ার্ডঃ

থানা ঃ (১৯৯০০ সমস্ত

| ক্ৰম<br>নং | নামঃ               | পিতার নামঃ        | ঠিকানাঃ   | মোবাইল নম্বরঃ | স্বাক্ষরঃ    |
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### Roads and Highways Department (RHD)

### Preparatory Survey for Dhaka-Chaittagong Highway (NH-1) Bridge Construction and Rehabilitation Project

### Kanchpur, Meghna and Gomti Bridges

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.09.2012 at 12.00 pm Venue: Meghna Bridge (Chittagong end) Baluakandi, Gozaria, Munshiganj

A stakeholder meeting (Third Stage) was held on disclosure of the RAP and EIA policy of the project on September 01, 2012 at 12.00 noon at Meghna Tetuitola Bazar (Chittagong end) Baliakandi, Gozaria, Munshiganj. The Meeting was presided over by Mr. Farid Uddin Ahmed, Sub-divisional Engineer, Narayanganj Road Division, RHD. Furthermore, Mr. Md. Golam Mostofa, Sub-divisional Engineer, Bridge Maintenance Division, RHD, Toshiyuki Konno, Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural Environmental Engineer (Local), Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and 79 local people (male 18 and female 61) were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting, policies of the RAP and EIA (mitigation measures of the project impacts) were disclosed to the affected people using flip chart. On August 01, 2012, these policies were disclosed, but due to JICA requirements and some changes in the policy, they requires disclosing again. The affected people were informed about the meeting through publishing in the national daily newspaper (Both Bengali and English daily), personal contact, announcement in the mosque, etc. The disclosed issues in the meeting were project components and alignment, cut off-date declared during the survey (16 March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, Grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

The president of the consultation meeting welcomed all participants in the discussion session and described the project including the different components. It was disclosed that the Japan International Cooperation Agency (JICA) will finance the project.

The following issues were disclosed in the meeting

- 1. The new bridge will be constructed parallel to the existing bridge within 30 meter to the upstream.
- 2. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- 3. Cut-off date of the census survey was 16 March, 2012.
- 4. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- 5. Findings of the survey and impact of the project
- 6. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows:
  - 1. Replacement value of the affected structures, trees and other assets
  - 2. Transfer grants and re-installation grants for structure
  - 3. Grants for alternative housing
  - 4. Grants for loss of business
  - 5. Moving assistance for tenants businessmen
  - 6. Grants for vulnerable households
  - 7. Grants for female headed households
  - 8. Grants for wage earners
  - 9. RHD employees will be eligible for compensation and other assistances for the structures erected by themselves
  - 10. Training on income generating activities for eligible members of vulnerable HHs
  - 11.Owners will be allowed to take all salvaged materials free of cost
- 12. Eligible affected persons will be preferentially employed in civil construction Grievance redress mechanism and right to submit grievances to the Grievance Redress Committee
- 13. Compensation payment procedure and role of PAPs, IA and RHD in making payment





Disclosure meeting at Meghna Bridge location

Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stages of the project

- 1. Social Environment
- 2. Natural Environment
- 3. Ecological Environment
- 4. Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on natural and ecological environment and environmental pollution.

Environmental Mitigation Measures

| Impact/Issue |                     | Mingation Measures  |
|--------------|---------------------|---|
| _            |                     | NT 1/1 // 1   |
| 1.           | Cultural Heritage   | No mitigation measures are required   |
| 2.           | Accident            | 1. Follow BRTA rules and Regulations  |
|              |                     | 2. Preparation of Health and Safety Management  |
|              | D' E '              | Plan (HSMP) including prevention of traffic accidents   |
| 1.           | River Erosion an    | 1 11  |
| •            | Siltation           | scouring  |
| 2.           | River Transport     | 1. Follow BIWTA navigation rules and regulations  |
| 2            | YY 1 1              | 2. River Traffic control and ensure lighting device   |
| 3.           | Hydrology           | Not required  |
| 1.           | Biota and ecosystem | <ol> <li>Prohibit leaking of oils from construction vessels including of emergency<br/>removal system of leaked oils</li> </ol> |
|              |                     | 2. Plantation of 3 times of trees to be cut; Tree planting will be carried out  |
|              |                     | through the RHD Tree-planting Unit, in conformity with their existing   |
|              |                     | guidelines  |
| 3.           | Global Warming      | 1. No mitigation measures are required  |
| 2.           | Air Pollution       | 3. Implement dust suppress plan and routine mitigation measure shall  |
|              |                     | be taken to emitting equipments during construction   |
| 4.           | Surface and Groun   |   |
|              | Water Pollution     | sedimentation, thus, reduce sediment load to the river  |
|              |                     | 6. Removal of Arsenic from newly constructed Wells  |
| 1.           | Soil pollution      | 1. Oil storage shall be with concrete floor and oil fence   |
| 2.           | Waste               | 1. Contractor will be required to facilitate proper reuse and disposal  |
|              |                     | plan, and manage the construction waste   |
|              |                     | 2. Dumping of waste at approved dumping sites   |
| 3.           | Noise and Vibration |   |
|              |                     | 5. Regulate the construction process  |
|              |                     | 6. Install barrier if required  |
| 7.           | Ground Subsidence   | 1. No action required   |
|              | 2. Offensive Odor   | 3. Proper treatment of camp waste and proper maintenance of heavy   |
|              |                     | equipment etc   |
| 1.           | Bottom sediment     | 2. Treatment of liquid waste before discharged  |
| 3.           | Landscape           | 4. Vegetation of the slope surface of embankment  |

After disclosing of the RAP and EIA policy the participants were requested to put comments or question on the policy. The local Union

| Category | of Speakers Occupation    | Comment/Question        | Answer and Policy of Countermeasure            |
|----------|---------------------------|-------------------------|--|
| (Male/Fe | male)                     |                         |  |
| Md.      | <b>Shahjahan Business</b> | My business is affected | l byThe compensation will be paid as per       |
| (Male)   | (Squatter)                | the approach road. l    | Howpolicy of the RAP before displacement       |
|          |                           | many times we will      | getfrom the project site. During survey all of |
|          |                           | from now to disma       | antlethe affected structures have been counted |
|          |                           |                         | the and accordingly budget has been prepared.  |
|          |                           | expected time of star   | ting At least 15 months will is on hand to     |
|          |                           | construction work       | dismantle structures. Because, expected        |
|          |                           |                         | time of starting the construction is early     |

2014.

Md. Abul Hassan

Business

(Squatter)

We need compensation on Compensation will be paid in cheques time and without hassle. (account payee) at the door steps of the

time and without hassle.(account payee) at the door steps of the Sufficient time is required affected people. The EPs will be allowed after getting compensation. for at least 30 days times to stay in the present location after payment of compensation.

Ms. Rasheda Khatun Squatters (Female)

We are very poor and have a During construction of the bridge local little scope of income. Ipeople will be deployed (based on have adult son but jobless.eligibility) on priority basis in civil Is there any provision of construction on.

getting work in the project.

The opinion of the participants were sought on the policy so far described in the meeting and requested to put comments on it if there is any confusion or suggestion on it. They raised their voices in favour of the policy and expressed satisfaction on the policy. They requested to implement the policy as it was disclosed

It was ensured that the RAP will be implemented in proper way and hopefully implementation of the RAP will help the APs to uphold their standard of living. There were no issues to discuss more and the meeting was closed with a vote of thanks from the Chair.

### Appendix-A: Attendance Sheet Preparatory Survey for Dhaka-Chittagong National Highway (NH-1) Bridge Construction and Rehabilitation Project Kanchpur, Meghna and Gumti Bridge

### **Attendance Sheet**

Time: 12 pm Date: 01/09/2012

Venue: Meghna Bridge Union: Baliakandi Thana: Gazaria

| I. No | Name             | Sex    | F/H Name              | Address     | Mobile No.  | Signature |
|-------|------------------|--------|-----------------------|-------------|-------------|-----------|
| 1     | Md. Shahjahan    | Male   | L. Asa mia            | Shantinagor |             |           |
| 2     | Golapjar         | Male   | L. Hafiz uddin        | Tetuitola   | 01840016612 |           |
| 3     | Mihinullah       | Male   | Hasem Dewan           | Tetuitola   | 01815700482 |           |
| 4     | Md. Sumon        | Male   | Md. Nurul Islam       | Harira      | 01913847753 |           |
| 5     | Md. Shah Alom    | Male   | Abdur Rashi<br>Prodan | Jamaldi     | 01711462377 |           |
| 6     | Md. Abul Hassan  | Male   | Nurul Haque           | Char Mazli  | 01829289137 |           |
| 7     | Abdur Rob        | Male   | L. Anor Ali           | Char Ali    | 01731370247 |           |
| 8     | Md. Azanur       | Male   | Md. Hobi              | Tetuitala   | 01813955442 |           |
| 9     | Swapan           | Male   | L. Rihuni             | Pirojpur    | 01826516661 |           |
| 10    | Sujon            | Male   | Vanu                  | Mugdapara   | 01670181598 |           |
| 11    | Moshiur Rahman   | Male   | L. Nazir Uddin        | Dhaka       | 01675421716 |           |
| 12    | Mohidul Hassan   | Male   | Abdul Malek           | Dhaka       | 01712084450 |           |
| 13    | Mojammel Hossain | Male   | Waliullah             | Chandpur    | 01714373008 |           |
| 14    | Oliul Islam      | Male   | Sheikh<br>Shahabuddin | Barishal    | 01716900842 |           |
| 15    | Md. Shahab Uddin | Male   | Abul Hossain          | Noakhali    | 01822309644 |           |
| 16    | Sumi Begum       | Female | Md. Faruk             | Noakhali    | 01964501047 |           |
| 17    | Jorina           | Female | Azahar                | Tetuitola   |             |           |
| 18    | Rasheda Khatun   | Female | Abdur Rashid          | Tetuitola   |             |           |
| 19    | Nasima           | Female | Musha                 | Tetuitola   |             |           |
| 20    | Farida Begum     | Female | Mannan Sheikh         | Tetuitola   |             |           |
| 21    | Koruna Bibi      | Female | Arshad                | Tetuitola   |             |           |
| 22    | Moji Begum       | Female | Abdul Awal            | Tetuitola   |             |           |
| 23    | Momotaz Begum    | Female | Abdul Mannan          | Tetuitola   |             |           |
| 24    | Fatima Begum     | Female | Boshir                | Tetuitola   |             |           |
| 25    | Minara Begum     | Female | Anis Rahman           | Tetuitola   |             |           |
| 26    | Kulsum           | Female | Yassin                | Tetuitola   |             |           |
| 27    | Morshed          | Male   | Ripon                 | Tetuitola   |             |           |

| il. No | Name         | Sex    | F/H Name        | Address   | Mobile No. | Signature |
|--------|--------------|--------|-----------------|-----------|------------|-----------|
| 28     | Nasimia      | Female | Hazrat Ali      | Tetuitola |            |           |
| 29     | Rukia Begum  | Female | L. Asadul Haque | Tetuitola |            |           |
| 30     | Taslima      | Female | Masud           | Tetuitola |            |           |
| 31     | Beauty Begum | Female | Aslam           | Tetuitola |            |           |
| 32     | Asimon Bibi  | Female | L. Fola Gazi    | Tetuitola |            |           |
| 33     | Sefali       | Female | Saiful          | Tetuitola |            |           |
| 34     | Hosnewara    | Female | L. Mizan        | Tetuitola |            |           |
| 35     | Soleha Begum | Female | L. Adom Ali     | Tetuitola |            |           |
| 36     | Fatima       | Female | Faruk           | Tetuitola |            |           |
| 37     | Shahana      | Female | Monir Hossain   | Tetuitola |            |           |
| 38     | Jobeda       | Female | Dudu Mia        | Tetuitola |            |           |
| 39     | Shahinur     | Female | Anar Hossain    | Tetuitola |            |           |
| 40     | Joyeda       | Female | Sukkur Ali      | Tetuitola |            |           |
| 41     | Ruma         | Female | Hatim           | Tetuitola |            |           |
| 42     | Rina         | Female | Jaman           | Tetuitola |            |           |
| 43     | Karimon      | Female | Dil Mahmud      | Tetuitola |            |           |
| 44     | Sufia        | Female | Monir Hossain   | Tetuitola |            |           |
| 5      | Rashida      | Female | Hobi            | Tetuitola |            |           |
| 46     | Lipi         | Female | Anwar Hossain   | Tetuitola |            |           |
| 47     | Nasima       | Female | Abu Taher       | Tetuitola |            |           |
| 48     | Minu         | Female | Jorj Mia        | Tetuitola |            |           |
| 49     | Rojina       | Female | Ruman           | Tetuitola |            |           |
| 50     | Khadeza      | Female | Amir Hossain    | Tetuitola |            |           |
| 51     | Majeda       | Female | lman Hossain    | Tetuitola |            |           |
| 52     | Sharmin      | Female | Helal           | Tetuitola |            |           |
| 53     | Shilpi       | Female | Nizam           | Tetuitola |            |           |
| 54     | Hajera       | Female | Abu Bokkor      | Tetuitola |            |           |
| 55     | Nasima       | Female | Hazrat          | Tetuitola |            |           |
| 56     | Joabeda      | Female | Dudu Mia        | Tetuitola |            |           |

| il. No | Name              | Sex    | F/H Name      | Address   | Mobile No. | Signature |
|--------|-------------------|--------|---------------|-----------|------------|-----------|
| 57     | Khodeza           | Female | Babul         | Tetuitola |            |           |
| 58     | Rabia Khatun      | Female | Jinnat Ali    | Tetuitola |            |           |
| 59     | Rokeya            | Female | Samsul        | Tetuitola |            |           |
| 60     | Nur Jahan         | Female | Mahfuz mia    | Tetuitola |            |           |
| 61     | Khorsheda         | Female | Ripon         | Tetuitola |            |           |
| 62     | Hasena            | Female | Eskendar      | Tetuitola |            |           |
| 63     | Khadiza           | Female | Delwar        | Tetuitola |            |           |
| 64     | Shadia            | Female | Shahajan      | Tetuitola |            |           |
| 65     | Shommetara        | Female | Chad mia      | Tetuitola |            |           |
| 66     | Amena             | Female | Liton         | Tetuitola |            |           |
| 67     | Moni Begum        | Female | Isha Ullah    | Tetuitola |            |           |
| 68     | Jahanara          | Female | Hazrat Ali    | Tetuitola |            |           |
| 69     | Junia Begum       | Female | Milon         | Tetuitola |            |           |
| 70     | Hobian            | Female | Askor Ali     | Tetuitola |            |           |
| 71     | Runa Begum        | Female | Akter Hossain | Tetuitola |            |           |
| 72     | Tania             | Female | Alamin        | Tetuitola |            |           |
| 73     | Sumi              | Female | Imran         | Tetuitola |            |           |
| 74     | Nur Jahan         | Female | Mizan         | Tetuitola |            |           |
| 75     | Helal             | Male   | Amir Hossain  | Tetuitola |            |           |
| 76     | Mozina Begum      | Female | Gofor Mollah  | Tetuitola |            |           |
| 77     | Shimu             | Female | Shahadat      | Tetuitola |            |           |
| 78     | Rekha             | Female | Saiful Islam  | Tetuitola |            |           |
| 79     | Abul Kasem Sheikh | Male   | L. Answar Ali | Tetuitola |            |           |

|            |                        | Attendan              | ce sneet       |                |                      |
|------------|------------------------|-----------------------|----------------|----------------|----------------------|
| भियं ३     | 320 32 20              |                       |                | তারিখ ঃ 🖒 /    | 00/202               |
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| ক্ৰম<br>নং | নামঃ                   | পিতার নামঃ            | ঠিকানাঃ        | মোবাইল নম্বরঃ  | স্বাক্ষরঃ            |
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मगरा : द्वर् णित्रियं : 02/02/2022 সভার স্থান ঃ ইউনিয়ন/ওয়ার্ডঃ थाना : ८४४६० ক্রেয় নামঃ পিতার নামঃ ঠিকানাঃ মোবাইল নম্বরঃ নং 20 4/NO84 (392) u 28 20 OFT/NB 322/1 215 29 2701 - 29210 GAM 26 23 u 50 u 106/10 (192) 05 u (0) 04/22/10/1 4 Manager / Param 60 (2) HEN25108 98 Ho; GM200m PLUS A ROM 50 OW 06 250006 09 2002 8008 (482) (3B 50 Con Only 80 ( Colle 9 SM2127 u 451701VI 85 TON 11 82 7200 u 80 10 88

### Preparatory Survey for Dhaka-Chittagong National Highway (N-1) Bridge Construction and Rehabilitation Project Kanchpur, Meghna and Gomti Bridge **Attendance Sheet** णितियः ०५/० गे/२०२९ थानाः ८४६/४४ সভার স্থান ঃ 🏈 ভেলপ ইউনিয়ন/ওয়ার্ডঃ পিতার নামঃ ঠিকানাঃ মোবাইল নম্বরঃ

मभग : ५५० २५४४

णितिथं : 02/2/2022

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### Roads and Highways Department (RHD)

Preparatory Survey for Dhaka-Chaittagong Highway (NH-1) Bridge Construction and Rehabilitation
Project
Kanchpur, Meghna and Gomti Bridges

Consultation meeting for disclosure of RAP and EIA policy to the affected people and other stakeholders

Date: 01.9.2012 at 10.00 am Venue: Gumti Bridge

> (Chittagong end) Doudkandi, Comilla

A stakeholder meeting (Third Stage) was held on disclosure of the RAP and EIA policy of the project on September 01, 2012 at 10.00 noon at Gumti bridge site (Chittagong end) Daudkandi, Comilla. The Meeting was presided over by Mr. Mr. Md. Golam Mostofa, Narayan Road Division, RHD. Furthermore, Sub-divisional Engineer, Bridge Maintenance Division, RHD, Toshiyuki Konno, Japanese Environmental Specialist of the JICA Study Team, Md. Nahid Muniruddin, Natural Environmental Engineer (Local), Kh. Khairul Matin Social Environmental Engineer (Local) JICA Study Team and 56 local people (male 28 and female 28) were present in the meeting (list of the participants attached in Appendix-A).

In the consultation meeting, policies of the RAP and EIA (mitigation measures of the project impacts) were disclosed to the affected people using flip chart. On August 01, 2012, these policies were disclosed, but due to JICA requirements and some changes in the policy, disclosure of the policy requires again. The affected people were informed about the meeting through publishing in the national daily newspaper (Both Bengali and English daily), personal contact, announcement in the mosque, etc. The disclosed issues in the meeting were project components and alignment, cut off-date declared during the survey (16 March 2012), Methodologies adopted during survey, findings of the survey, entitlement matrix as prescribed in the RAP, grievance redress mechanism, compensation payment procedure, relocation requirements & options, timeline of relocation after payment of compensation, etc. The findings of the environmental survey and proposed mitigation measures of any adverse impacts were also disclosed in the meeting.

The president of the consultation meeting welcomed all participants in the discussion session and described the project including the different components. It was disclosed that the Japan International Cooperation Agency (JICA) will finance the project.

The following issues were disclosed in the meeting

- a. The new bridge will be constructed parallel to the existing bridge within 30 meter to the downstream.
- b. No new land acquisition will be required for any components of this project. All of the project activities will be done in RHD land.
- c. Cut-off date of the census survey was 16 March, 2012.

- d. Methodologies of the survey such as census and socioeconomic survey, inventory of affected assets, video filming and sketch mapping of all affected structures and other properties
- e. Findings of the survey and impact of the project
- f. Compensation package as prescribed in the RAP was also disclosed in the meeting as follows:
  - i. Replacement value of the affected structures, trees and other assets
  - ii. Transfer grants and re-installation grants for structure
  - iii. Grants for alternative housing
  - iv. Grants for loss of business
  - v. Moving assistance for tenants businessmen
  - vi. Grants for vulnerable households
  - vii. Grants for female headed households
  - viii.Grants for wage earners
  - ix. RHD employees will be eligible for compensation and other assistances for the structures erected by themselves
  - x. Training on income generating activities for eligible members of vulnerable HHs
  - xi. Owners will be allowed to take all salvaged materials free of cost
- g. Grievance redress mechanism and right to submit grievances to the Grievance Redress Committee
- h. Compensation payment procedure and role of PAPs, IA and RHD in making payment



Regarding Environmental impacts and mitigation measures, the Environmental Specialist explained that that about 27 major environmental and social concerns have identified in this project and accordingly mitigation measures have been proposed. It was discussed that the impacts are broadly classified into following 4 categories that will be faced during preconstruction, construction and operation stage:

- Social Environment
- Natural Environment

Landscape

- Ecological Environment
- Environmental Pollution

The Social Specialist has explained impacts on social environment. The Environmental Specialist explained the impacts on natural and ecological environment and environmental pollution.

| Environmental Impact/Issue  | Mitigation Measures  |
|---|--|
| Cultural Heritage   | No mitigation measures are required  |
| • Accident  | <ul> <li>Follow BRTA rules and Regulations</li> <li>Preparation of Health and Safety Management<br/>Plan (HSMP) including prevention of traffic accidents</li> </ul>   |
| <ul> <li>River Erosion and Siltation</li> <li>River Transport</li> <li>Hydrology</li> </ul>           | <ul> <li>Construction of sheet pile steel pipe foundation to encounter scouring</li> <li>Follow BIWTA navigation rules and regulations</li> <li>River Traffic control and ensure lighting device Not required</li> </ul>   |
| Biota and ecosystem   | <ul> <li>Prohibit leaking of oils from construction vessels including of emergency removal system of leaked oils</li> <li>Plantation of 3 times of trees to be cut down; Tree planting will be carried out through the RHD Tree-planting Unit, in conformity with their existing guidelines</li> </ul>   |
| <ul><li>Global Warming</li><li>Air Pollution</li><li>Surface and Ground<br/>Water Pollution</li></ul> | <ul> <li>No mitigation measures are required</li> <li>Implement dust suppress plan and routine mitigation measure shall be taken to emitting equipments during construction</li> <li>Increase retention time of the outflow hydraulic fills to increase sedimentation, thus, reduce sediment load to the river</li> <li>Removal of Arsenic from newly constructed Wells</li> </ul> |
| <ul><li>Soil pollution</li><li>Waste</li></ul>  | <ul> <li>Oil storage shall be with concrete floor and oil fence</li> <li>Contractor will be required to facilitate proper reuse and disposal plan, and manage the construction waste</li> <li>Dumping of waste at approved dumping sites</li> </ul>  |
| Noise and Vibrations  | <ul> <li>Enforce noise emission standards</li> <li>Regulate the construction process</li> <li>Install barrier if required</li> </ul>   |
| <ul><li>Ground Subsidence</li><li>Offensive Odor</li></ul>  | <ul> <li>No action required</li> <li>Proper treatment of camp waste and proper maintenance of heavy equipment etc</li> </ul>   |
| • Bottom sediment   | • Treatment of liquid waste before discharged  |

After disclosure of the RAP and EIA policy the participants were requested to raise comments/questions on the policy. At least 3 affected people raised their voices on the compensation payment process and project facilities

• Vegetation of the slope surface of embankment

The issues so far raised by the participants are presented below-

| Category of<br>Speakers<br>(Male/Female)                               | Occupation             | Comment/Question  | Answer and Policy of Countermeasure  |
|--|------------------------|---|--|
| Ms. Halima Akter (Female)  | Housewife              | Living on Government land for last 15 years. We did sand filling and constructed housing structure. We have no sufficient income. We need adequate compensation and job opportunity for our male members in civil construction. | Compensation will be paid for structures only but not for land as because the land is owned by RHD.  Compensation will be paid as per policy of the RAP.  Compensation for structure, transfer and re-installation grants and other assistance as per policy will be pad that will make the affected persons well off. The affected people will be preferentially deployed in civil construction based on eligibility. |
| Ms. Chjan Tara<br>(Female)<br>Wife of Enamul<br>Haque<br>(businessmen) | Housewife              | They have only one source of income (shop at Gumti ghat) is getting affected. They have bank loan and have to pay by monthly installment. Demanded adequate compensation in time.   | Compensation for the structures and as well as business will be paid. They have more than 1 year time in hand to relocate. Adequate compensation will be paid for the affected properties at the door steps of the affected people.  |
| Md. Abdul Zalil<br>(Male)  | Business<br>(Squatter) | The local people especially the affected people should get opportunity to work in civil construction of the project.  | According to the policy of the Resettlement Action Plan, the affected people will be preferentially employed in civil construction as per eligibility of the APs   |
| Renu Bibi<br>(Female)  | Housewife              | As per discussion the project will arrange training on income generating activities. Will our family members get that opportunity.  | During implementation of the RAP, the vulnerable Aps will be brought under income and livelihood restoration program and arranged training on income generating activities. One member of each affected households will be selected based on need assessment survey.   |

The opinion of the participants were sought on the policy so far described in the meeting and requested to put comments on it if there is any confusion or suggestion on it. They raised their

voices in favour of the policy and expressed satisfaction on the policy. They requested to implement the policy as it was disclosed

It was ensured that the RAP will be implemented in proper way and hopefully implementation of the RAP will help the APs to uphold their standard of living. There were no issues to discuss more and the meeting was closed with a vote of thanks from the Chair.

### **Appendix-A: Attendance Sheet**

Thana: Daudkandi

### Preparatory Survey for Dhaka-Chittagong National Highway (NH-1) Bridge Construction and Rehabilitation Project Kanchpur, Meghna and Gumti Bridge <u>Attendance Sheet</u>

Time 10 am Date: 01/09/2012

Venue: Gumti Bridge, Chittagong end

(under abutment)

| SI.<br>No. | Name             | Sex    | F/H Name              | Address        | Mobile No.  | Signature |
|------------|------------------|--------|-----------------------|----------------|-------------|-----------|
| 1          | Ms. Halima Akter | Female | Md. Rana Mia          | Gumti          | 01821985260 |           |
| 2          | Renu Begum       | Female | Md. Jolil Mia         | Gumti          |             |           |
| 3          | Josna            | Female | L. Lalu Bepari        | Gumti          |             |           |
| 4          | Md. Kabir        | Male   | Alomgir               | Gumti          |             |           |
| 5          | Md. Shahjalal    | Male   | L. Md. Mowla Mia      | Donar Chor     | 01674989216 |           |
| 6          | Kishnodas        | Male   | Md. Sidikur<br>Rahman | Rayer Kandi    | 01815555205 |           |
| 7          | Shanti Mia       | Male   | Jamal Das             | Uttar Satandi  | 01832459632 |           |
| 8          | Md. Monir        | Male   | L. Hatu Mia           | Chashir Chor   |             |           |
| 9          | Rupa             | Female | Romiz Uddin           | Kamlapur       | 01830935460 |           |
| 10         | Md. Mahshin      | Male   | Alomgir               | Gumti          |             |           |
| 11         | Abul Kasehm      | Male   | Tofazol Munshi        | Chashir Chor   | 01816178632 |           |
| 12         | Abul Kasem       | Male   | L. Rahmali Bepari     | Chashir Chor   |             |           |
| 13         | Rafik Mollah     | Male   | L. Edris Mollah       | Chashir Chor   | 01924619071 |           |
| 14         | Abdul Sattar     | Male   | L. Rani Mia           | Chashir Chor   | 01949515819 |           |
| 15         | Kajol            | Female | L. Mono Ranzon        | Mohammadpur    | 01812170044 |           |
| 16         | Md. Khokon       | Male   | Rafiq Mollah          | Chashir Chor   | 01924268632 |           |
| 17         | Md. Alom         | Male   | Satu Munshi           | Chashir Chor   |             |           |
| 18         | Shukumar Gosh    | Male   | Surendro Gosh         | Ramnagar       | 01760008851 |           |
| 19         | Prodip Gosh      | Male   | L. Gopal Gosh         | Shahparan      | 01828553597 |           |
| 20         | Shahid Ullah     | Male   | L. Asmot Ali Bepari   | Chorkata Khali | 01935108841 |           |
| 21         | Ali Ashram       | Male   | Hasan Mia             | Uttoron        |             |           |
| 22         | Anu Mia          | Male   | L. Neyaz Uddin        | Golar Chor     | 01677215419 |           |

| SI. | Name                   | Sex    | F/H Name         | Address              | Mobile No.  | Signature |
|-----|------------------------|--------|------------------|----------------------|-------------|-----------|
| No. |                        |        |                  |                      |             |           |
| 23  | Jakir Hossain          | Male   | L.Mokbul Hossain | Uttor<br>Nosaruddin  | 01767654518 |           |
| 24  | Aroch Rani             | Male   | Sukomar Rongon   | Ramnagor             | 01760008851 |           |
| 25  | Shafia                 | Female | L.Abdul Malak    | Nurdi                |             |           |
| 26  | Rina Begum             | Female | Md.Salem         | Gomti                |             |           |
| 27  | Fatima Begum           | Female | Moslam           | Sobjikandi           |             |           |
| 28  | Rashida Begum          | Female | Ali Arsab        | Sobjikandi           |             |           |
| 29  | Shahinur Begum         | Female | Babu             | Sobjikandi           |             |           |
| 30  | Md.Sahajalal           | Male   | Abdul Jolil      | Sobjikandi           | 01821985260 |           |
| 31  | Chad Tara              | Female | Anam             | Sobjikandi           |             |           |
| 32  | Md. Babu               | Male   | Md. Jolil        | Sobjikandi           | 01821985260 |           |
| 33  | Sadib Chondro<br>Ghosh | Male   | L. Gopal Chondro | Sha Poran            | 01728135124 |           |
| 34  | Shafia Begum           | Female | Mollah           | Dolar Chor           |             |           |
| 35  | Shahida Begum          | Female | Abdul Aziz       | Dolar Chor           |             |           |
| 36  | Sunati Ghosh           | Male   | Sadib Ghosh      | Sha Poran            | 01728135124 |           |
| 37  | Zuel                   | Male   | Md. Azi Rahman   | Dolar Chor           |             |           |
| 38  | Nazmul Hossain         | Male   | Anu Miah         | Dolar Chor           | 01677215419 |           |
| 39  | Aklima                 | Female | Nur Nobi         | Uttar Naser<br>Uddin | 01822819662 |           |
| 40  | Noyon Ghosh            | Male   | Prodip Ghosh     | Uttar Naser<br>Uddin |             |           |
| 41  | Rina Begum             | Female | Shirajul Islam   | Uttar Naser<br>Uddin | 01828553597 |           |
| 42  | Md. Khokan             | Male   | Rafik Mollah     | Chor Chasi           | 01924619071 |           |
| 43  | Shefali Begum          | Female | Md. Khokan       | Chor Chasi           |             |           |
| 44  | Muslim                 | Male   | Arnal Haque      | Chor Chasi           |             |           |
| 45  | Kohinur                | Female | Mizanur Rahman   | Dolar Chor           |             |           |

| SI.<br>No. | Name   | Sex    | F/H Name      | Address    | Mobile No. | Signature |
|------------|--------|--------|---------------|------------|------------|-----------|
| 46         | Kabita | Female | Kajel Chondro | Mohammadpu |            |           |

|    |             |        | Shil                 |            |             |
|----|-------------|--------|----------------------|------------|-------------|
| 47 | Aysha       | Female | Ainal Haque          | Dolar Chor |             |
| 48 | Kanjoni     | Female | Habi Miah            | Dolar Chor |             |
| 49 | Halim       | Male   | Siddiqu Miah         | Dolar Chor |             |
| 50 | Setara      | Female | Latif Miah           | Dolar Chor |             |
| 51 | Kahinur     | Female | Joherun Sarker       | Pairapur   | 0194024143  |
| 52 | Rabea       | Female | Abdul Baten          | Maisa Para |             |
| 53 | Shahenur    | Female | Ali Hossain          | Chor Chasi | 01749039938 |
| 54 | Nur Islam   | Male   | L. Kanai Miah        | Chor Chasi |             |
| 55 | Ms. Tasirun | Female | L. Ibrahim<br>Kholil | Chor Chasi |             |
| 56 | Ms. Ranu    | Female | Toto Miah            | Dowladia   |             |

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#### ATTACHMENT: TOR for SOCIAL CONSIDERATION

This is attached as TOR for RAP Preparation for the study team and is only reference for DOE.

Although all the land for project area has been already acquired by RHD and no compensation for land is required, there many occupants residing within the project area and large scale of involuntary resettlement is predicted. Therefore based on JICA Guidelines, preparation of Resettlement Action Plan (RAP) is required. RAP shall include contents as are mentioned in Annex A Resettlement Plan of World Bank Safeguard Policy OP4.12 and they are as sections as below. In the preparation of RAP, also referred is "Involuntary Resettlement Sourcebook Planning and Implementation in Developing Projects". To get advises from JICA Advisory Committee on each time at preparation of Resettlement Policy and RAP respectively, support is required. Results shall be submitted of socioeconomic survey (census, assent inventory, livelihood and life levels interviews), replacement cost survey, survey for the needs of livelihood restoration program, etc All these results shall be submitted to JICA.

#### Section 1. Analysis of legal framework for resettlement

To analyze gaps between Bangladesh Laws about resettlement and JICA Guidelines, and propose the necessary measures to fulfill these gaps if any. Among all, gaps about entitlements for compensation and assistance for livelihood restoration, estimation process of compensation amount, time for that payment, livelihood restoration program, and grievance redressing mechanism are always compared.

#### Section 2. Description of the necessity of resettlement

To describe project outline, project area and components which involve involuntary resettlement activity. Also to describe several alternatives, at initial design stage, for the purpose to avoid/minimize the land acquisition and involuntary resettlement

Section 3. Socioeconomic survey (census, assets inventory, livelihood and life level survey, etc)

- Census is implemented to all the project land occupants (Directly Affected Households: DAHs) to count numbers to entitled (land owner, tenant, business person, shop employee, illegal occupants included). It is noted encroachers after Cut-Off-Day are not entitled for any compensation or livelihood assistances at all. When relocation site is provided, the host community shall be consulted as well.
- Assets inventory shall be made for all of the physical and economical properties of DAHs. They shall be itemizes and quantified. Asset inventory shall be made together with census as much possible.
- Survey for livelihood and life level is implemented to 20%, in the minimum, of the total number of DAHs, and clarified are general characteristics of DAHs, baseline data about livelihood and life level, information about socially vulnerable groups such as people below poverty line, landless, aged, female, children, indigenous people, ethnic minorities and those who are not covered by the law.

#### Section 4. Compensation for lost assets and planning of livelihood restoration

- Establish the policy of entitlement for land owner, tenant, business person, shop employee, illegal occupant
- For the DAHs whose livelihood are land-base, provision of alternative land with equivalent

location and equivalent productivity is preferred to monetary compensation. In case sufficient land is not available, the evidence of lack of adequate land shall be indicated.

- Described are procedure of perfectly replacement cost compensation payment as specified in OP4.12 and its responsible agencies. For the examination of compensation procedure, replacement cost survey shall be properly implemented for the cost estimation of assets of entitled households and presence of legal gaps between Bangladesh Laws and JICA Guidelines shall be confirmed. If gaps are noted, additional compensation procedure shall be required to fulfill the gap and its responsible agency shall be studied. For DAHs who physically move to other location, transportation fee shall be provided.
- Livelihood restoration program shall be proposed for the purpose to restore, in the minimum, or to improve the livelihood compared to the before project. This program includes provision of compensation for lost assets, priority employment, salary compensation, loan, job training etc. This program shall be, of course, technically and feasibly applicable and will be determined after the consultation with entitled households.

#### Section 5. Preparation of program for relocation site setting up

Potentially superior relocation site as productivity and feasibility shall be chosen compared to the land to be lost. In the proposed relocation site, planned are program of preparation of housing, infrastructures (tap water and sub-divisional roads, etc) and social services (school, medical care, etc). In addition, EIA/IEE, environmental mitigation measures planning and EMP shall be prepared as required.

#### Section 6. Examination of grievance redressing procedure

• Study is required for the determination whether to utilize the present system or to propose a new system based on views of easiness, accessibility and reliability. It is required to describe the mandate of responsible agency, members, file application procedure, recommendation preparation process, time limits and information dissemination process, etc.

#### Section 7. Evaluation of implementation agency

- Identify responsible agencies (Implementing agency, local governments, consultants, NGO, etc) and describe mandate of each agency (organization's responsibility and its detailed chart, each section's role, staff's duty and qualification, cost including personnel expenses).
- Evaluate capacities of implementing agencies responsible and, if found to be necessary, capacity building is proposed

### Section 8. Evaluation of implementing schedule

<u> •</u> Time to start relocation shall be after 1) provision of compensate and assistances necessary for relocation including transportation allowance and 2) preparation of infrastructures and social services (medical care, education, etc) have been completed at the relocation site.

#### Section 9. Cost and resources of budget

Cost for compensation, preparation of relocation site, livelihood restoration, administrative activities, etc that are necessary for resettlement shall be itemized and estimated and the expenditure schedule shall be prepared. Compensation amount is determined by the assets inventory of respective entitled household, based on the rare obtained from replacement cost

survey of typical land type and properties. To secure the additionally necessary cost as is not covered by Bangladesh Law, budget source shall be studied.

## Section 10. Monitoring and post project evaluation

- To study the system of internal monitoring by implementing agency and to prepare monitoring form required. In the monitoring form, indices for input and output are proposed.
- To study the system of external monitoring by he independent agency and propose the form for public disclosure.
- To confirm if the resettlement activities are proceeded as per scheduled and prepare data for public disclosure.

## Section 9. To secure involvement of affected people

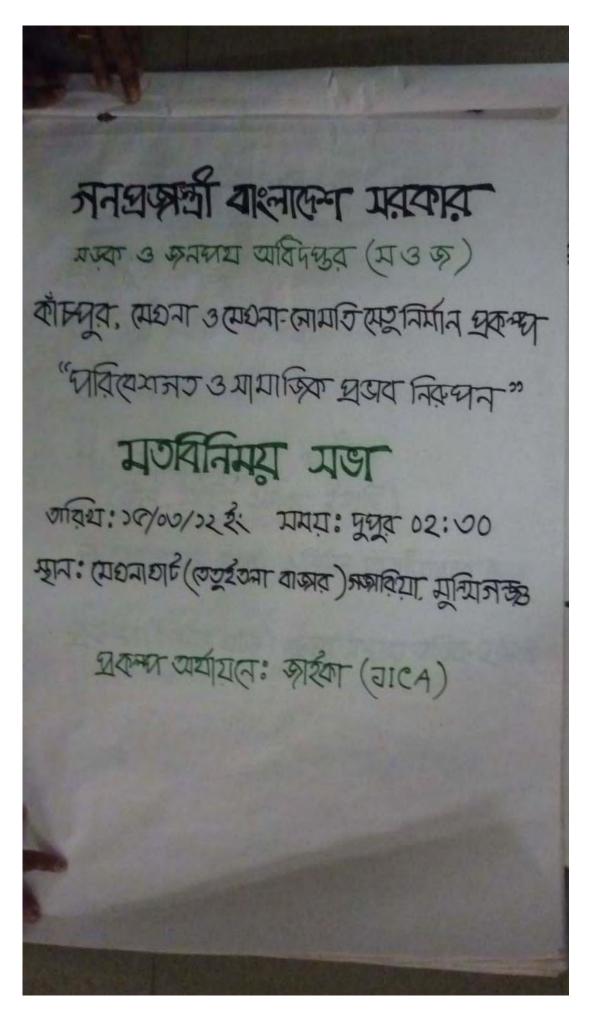
- The strategy shall be planned to secure the involvement of affected people from the preparation stage of RAP and its implementation stage, especially for the purpose to protect the vulnerable and indigenous people. In the strategy following shall be included:
  - Public discussion for alternatives of earlier design stage
  - Explanation of project outlines to affected households through door to door interview for socioeconomic survey
  - Discussion with key stakeholders
  - Focus group discussion with vulnerable group
  - Discussion about RAP with affected people
  - Delivery of leaflet of RAP
  - To secure the attendance of DAHs at the meeting
  - Monitoring
- It is required to assist the meetings for explanation to affected people and discussion with affected residents. Minutes of meetings shall be prepared, describing opinions raised and their reposes, which were incorporated to RAP.

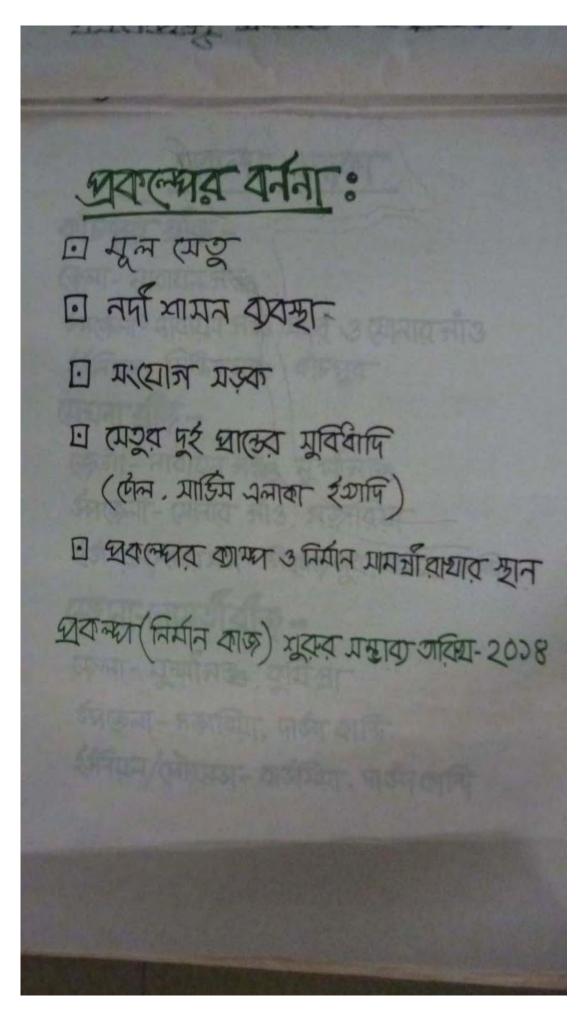
At the survey of study area and affected people, identification of accurate gender profile is required and necessity of special compensation/assistance shall be studied so that females are not treated unfairly.

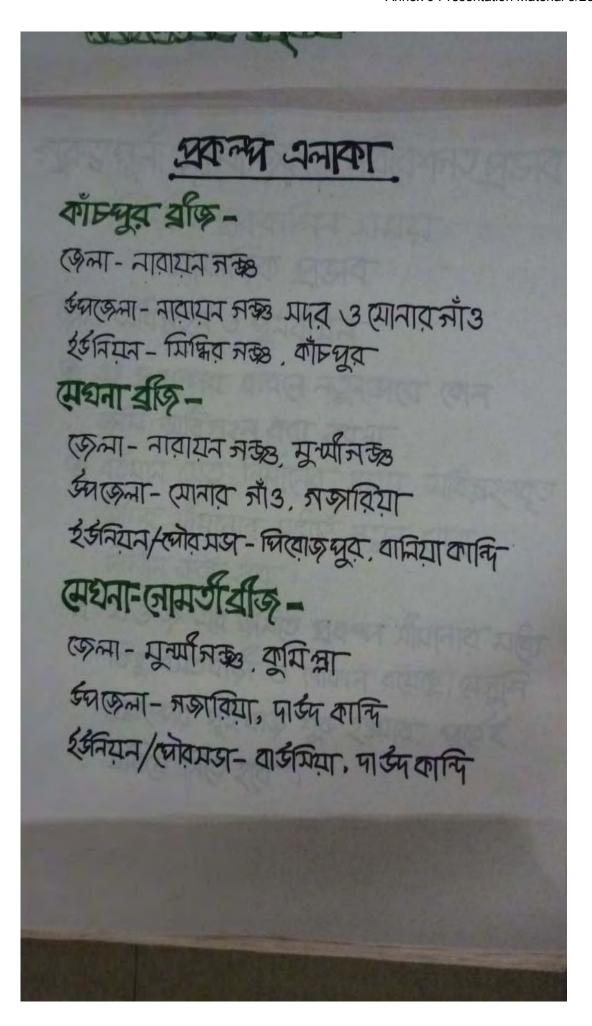
Table of Content for RAP Report covering World Bank OP 4.12

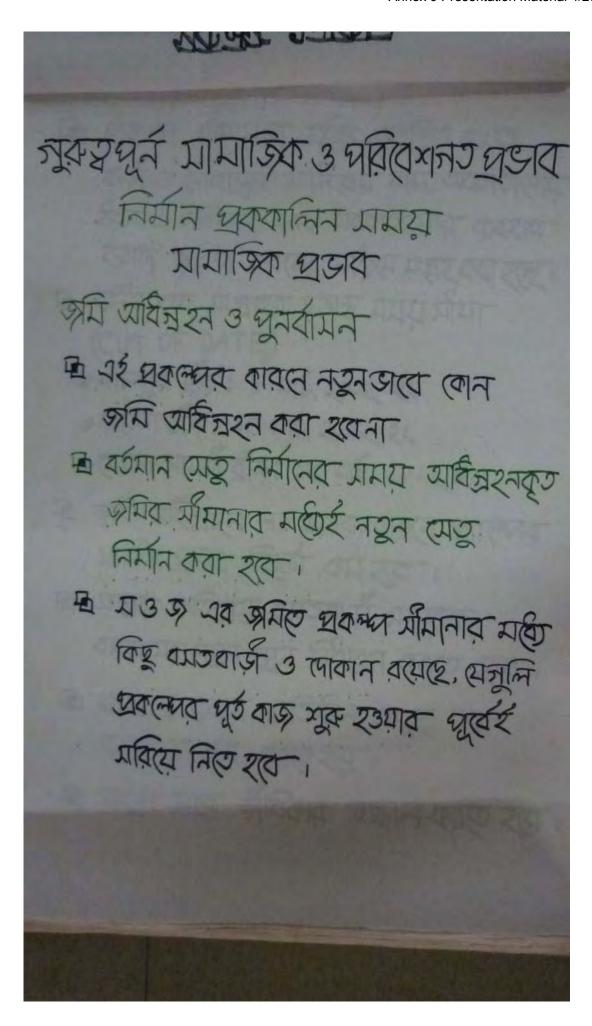
- Executive Summary
- Main Text
- 1. Project Description
- 2. Potential Impacts
  - Project component or activities that give rise to resettlement
  - Impact zone
  - Alternatives to minimize resettlement including zero option
  - Mechanism to minimize resettlement impact during implementation
- 3. Objectives of Resettlement Program

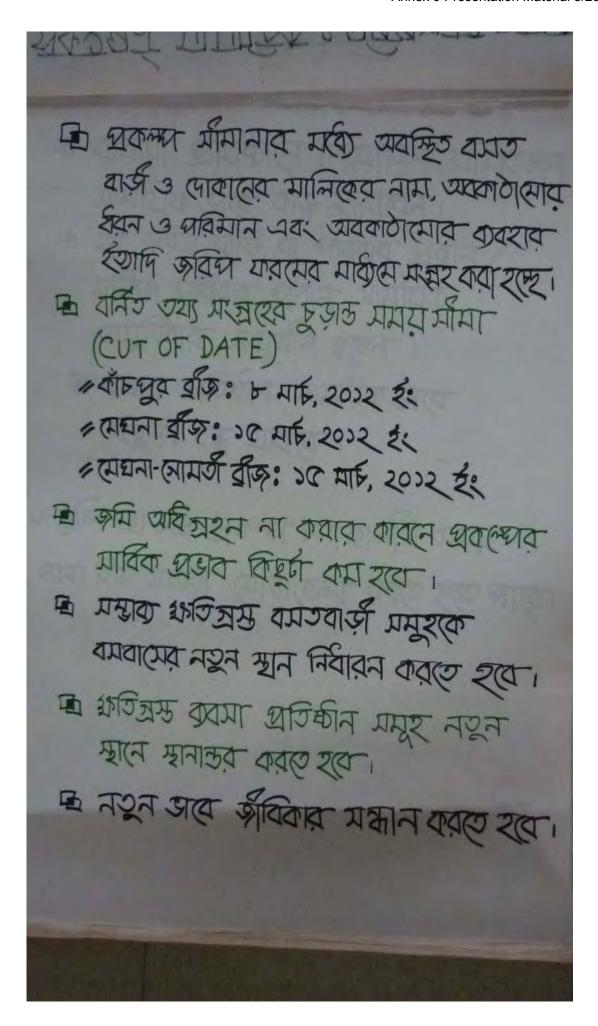
- 4. Socioeconomic Studies
  - Perception about the project
  - Social conditions
  - Economic conditions
  - Education/Culture
  - Security
- 5. Legal Framework
  - Land Law
  - Compensation Policy
- 6. Institutional Framework
  - Agencies related to resettlement
- 7. Eligibility
  - Titled
  - No-titled
- 8. Valuation and Compensation for Losses
  - Market Price Survey
  - Asset Inventory Survey
  - Negotiation and contract
  - Payment
- 9. Compensation Matrix
  - Resettlement Site Preparation
  - Selection of Site
  - Provision of Housing and Infrastructures
  - Integration with Host population
- 10. Environmental Protection and Management
- 11. Community Participation
  - Stakeholders Meeting
  - Focus Group Discussion
- 12. Grievance Procedures
- 13. Organizational Responsibilities
- 14. Implementation Schedule
- 15. Cost and Budget
- 16. Monitoring and Evaluation

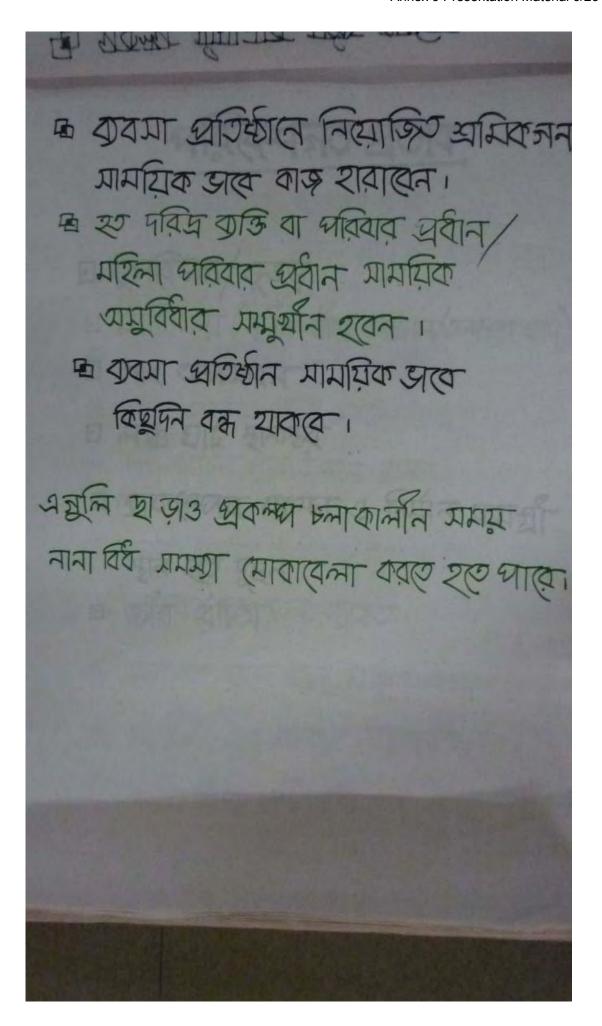


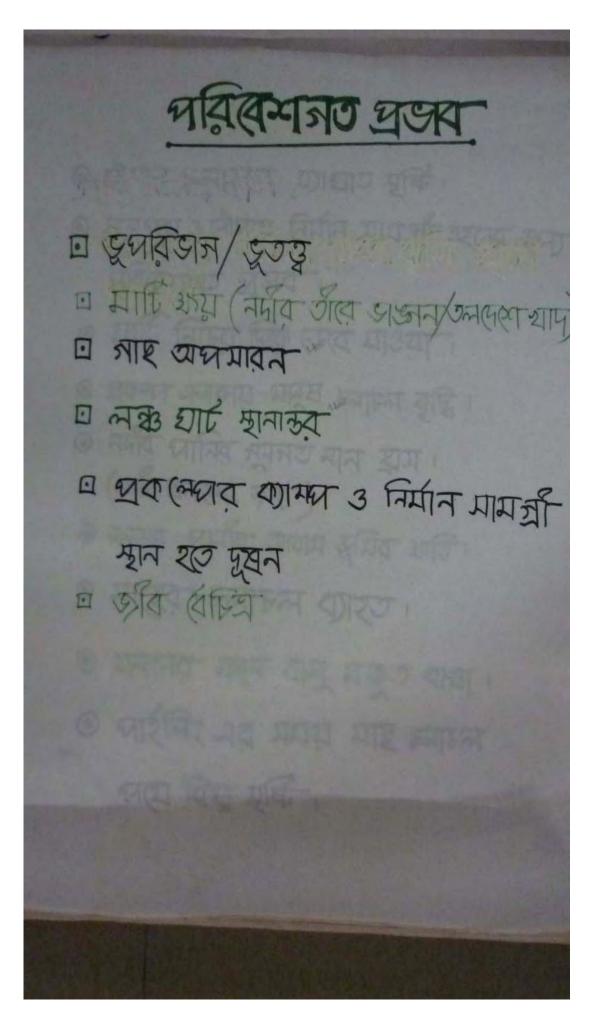


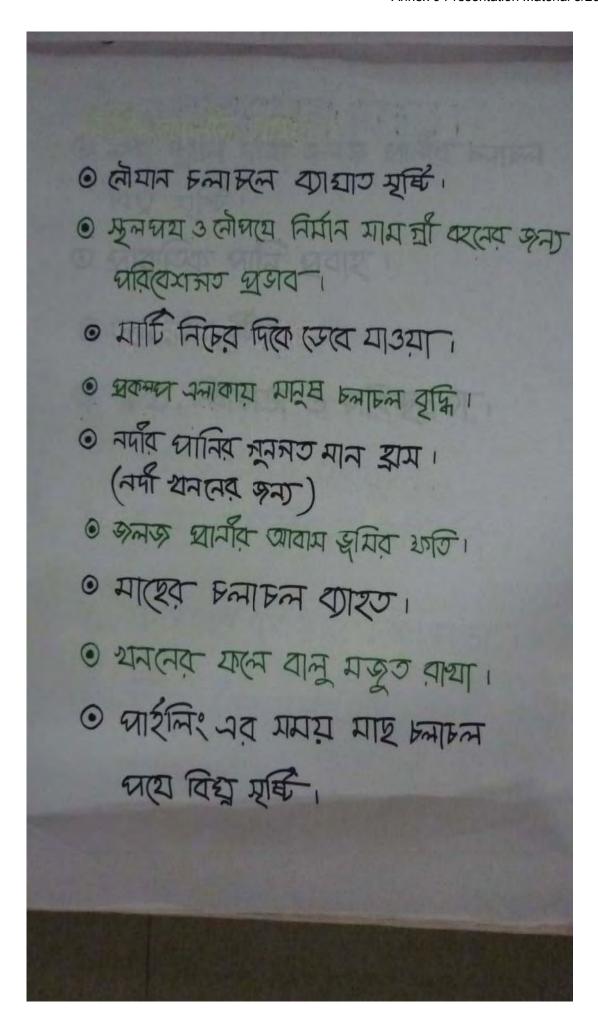


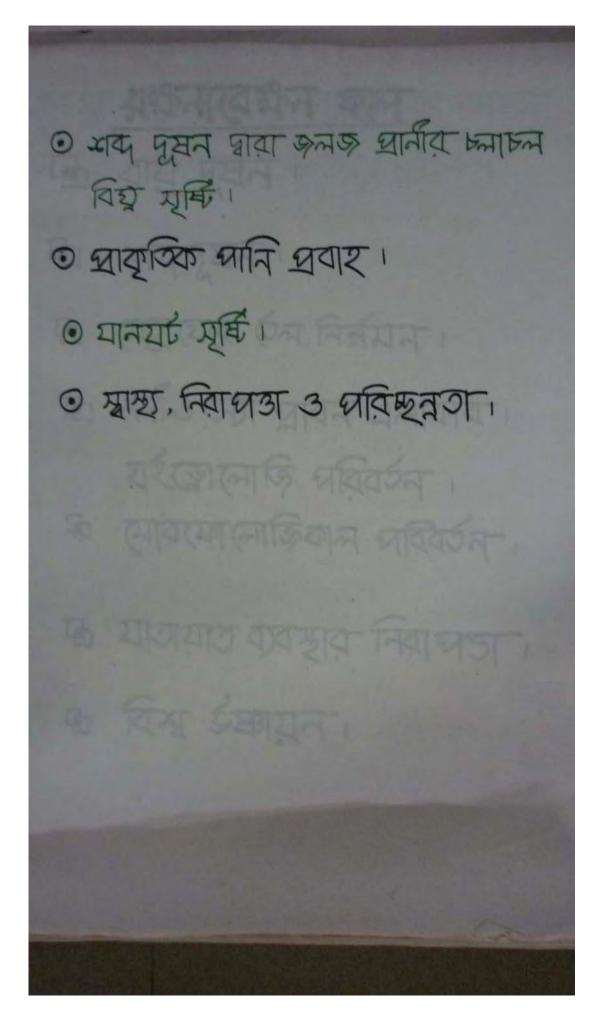


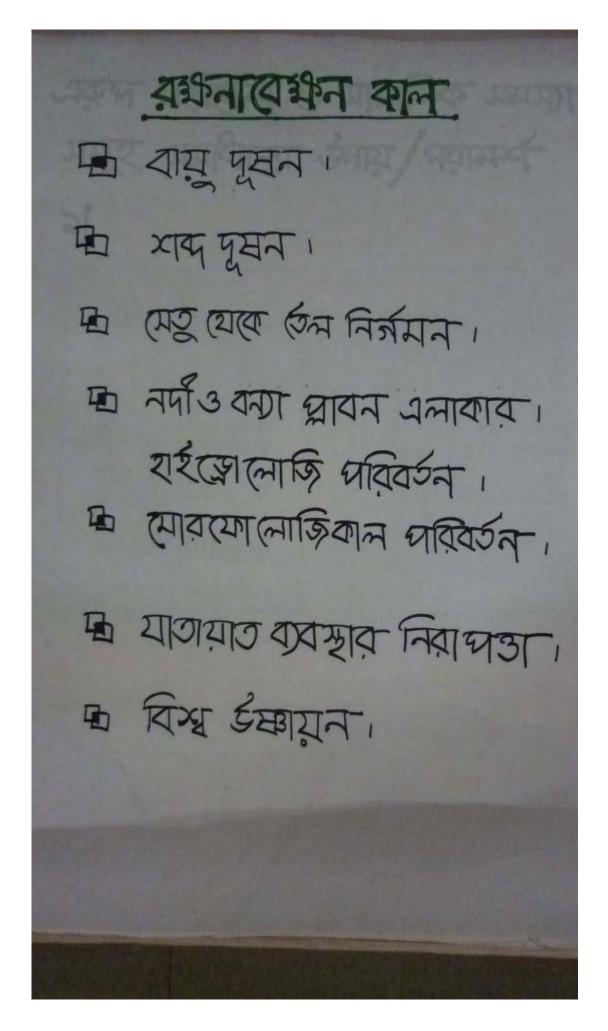


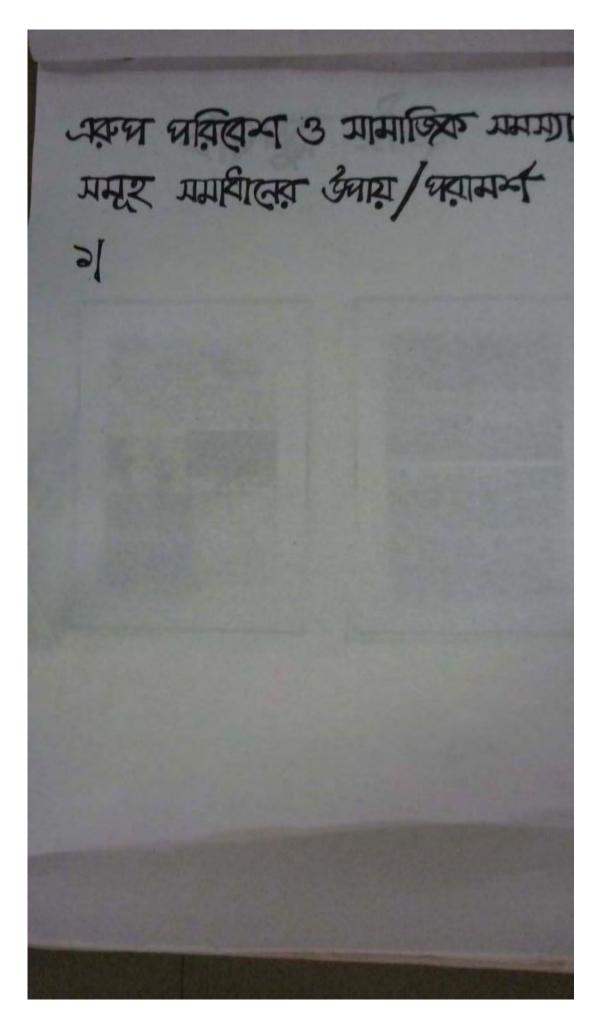


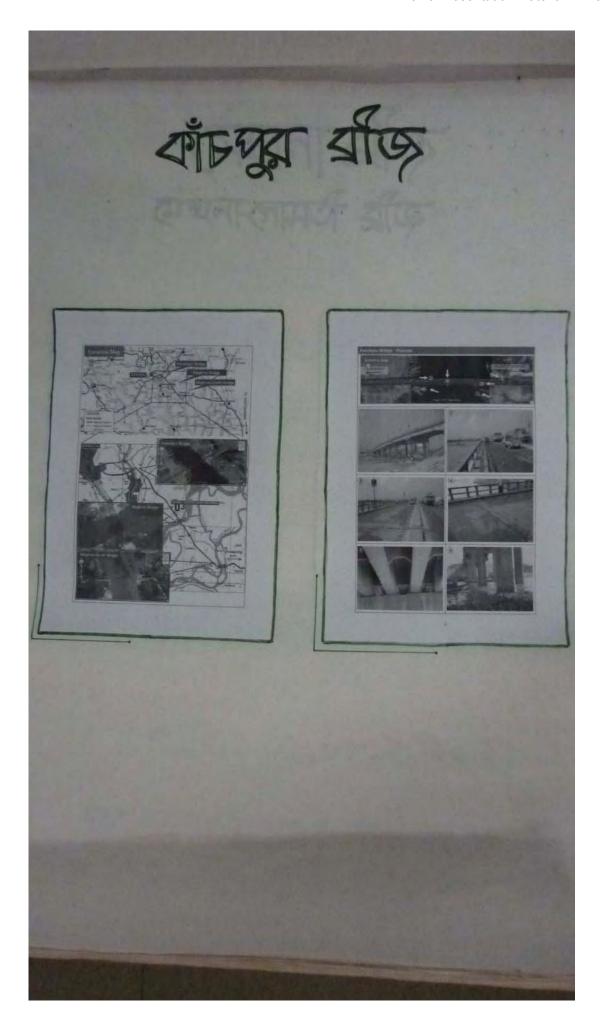


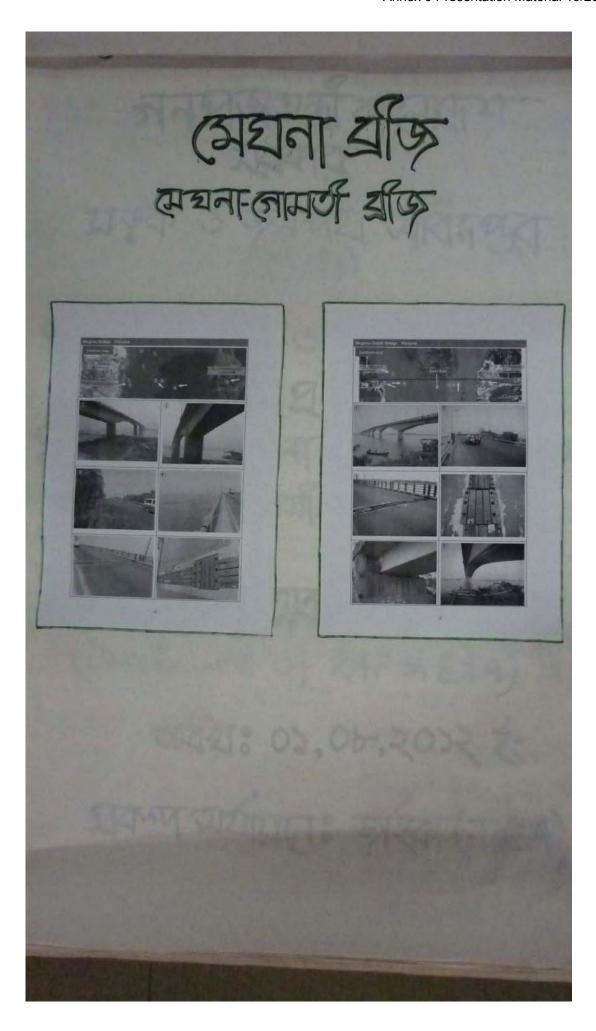


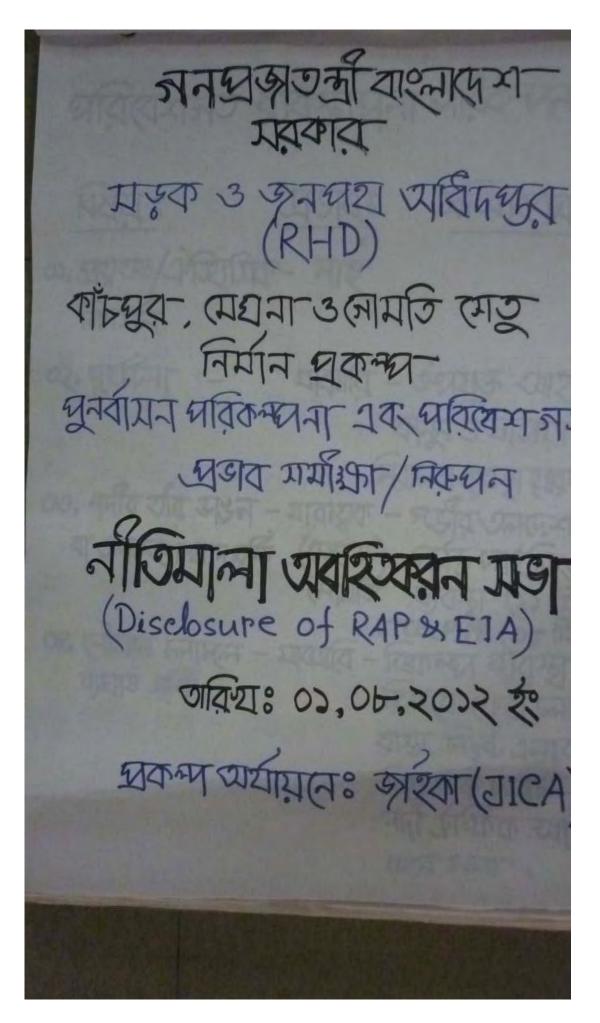


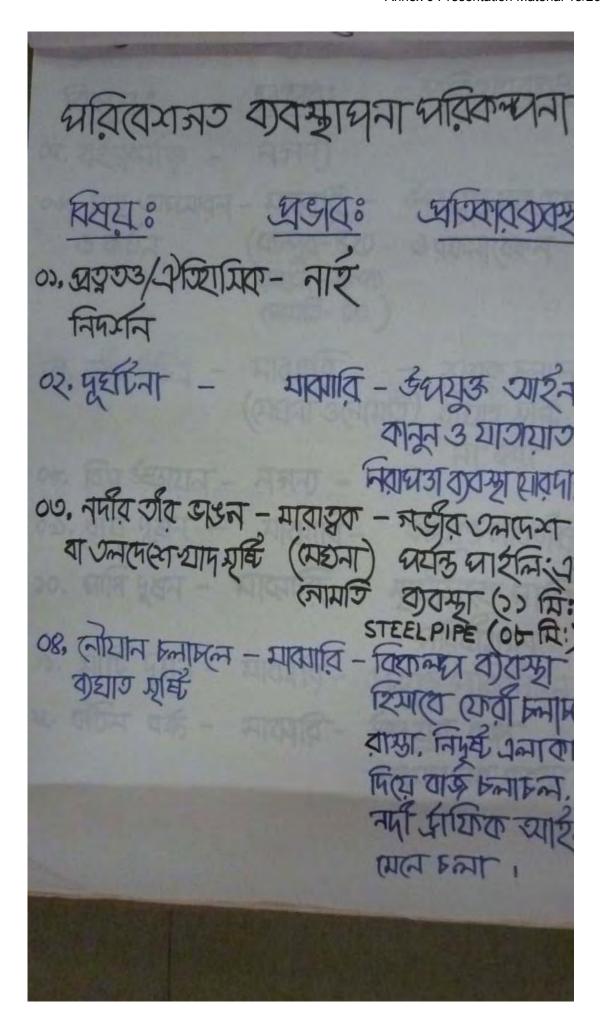




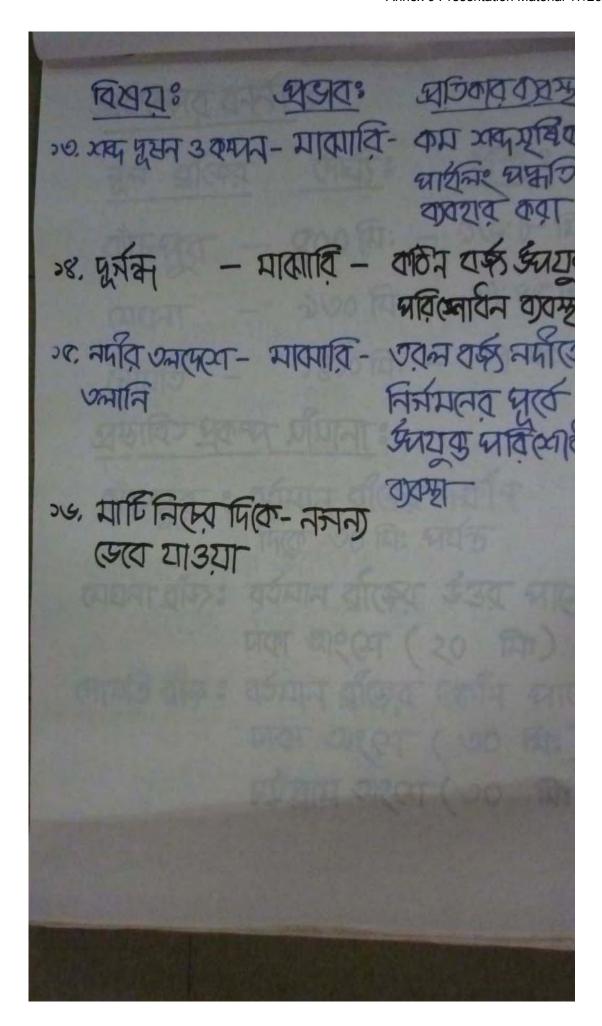








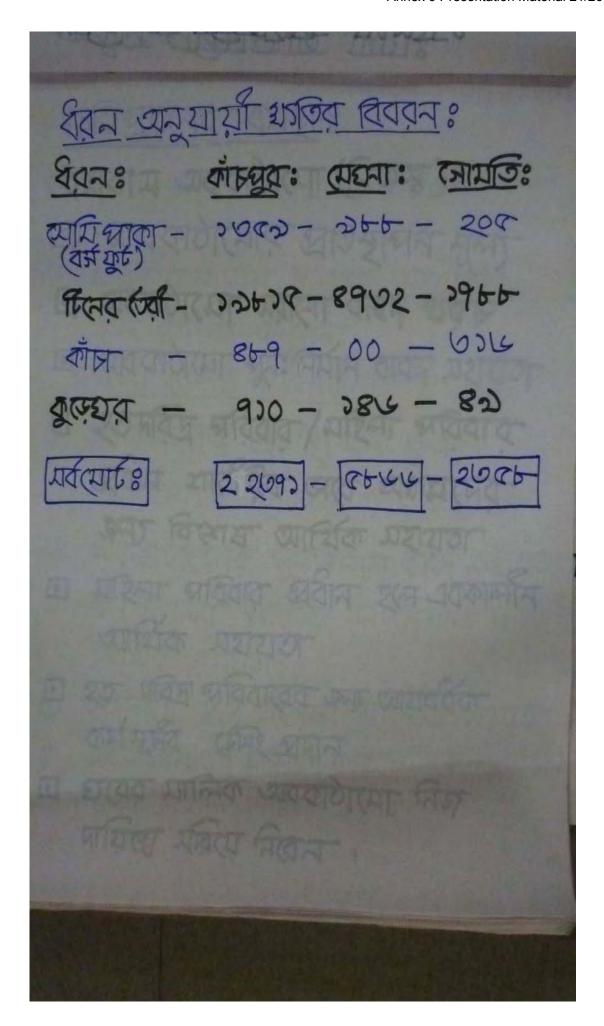
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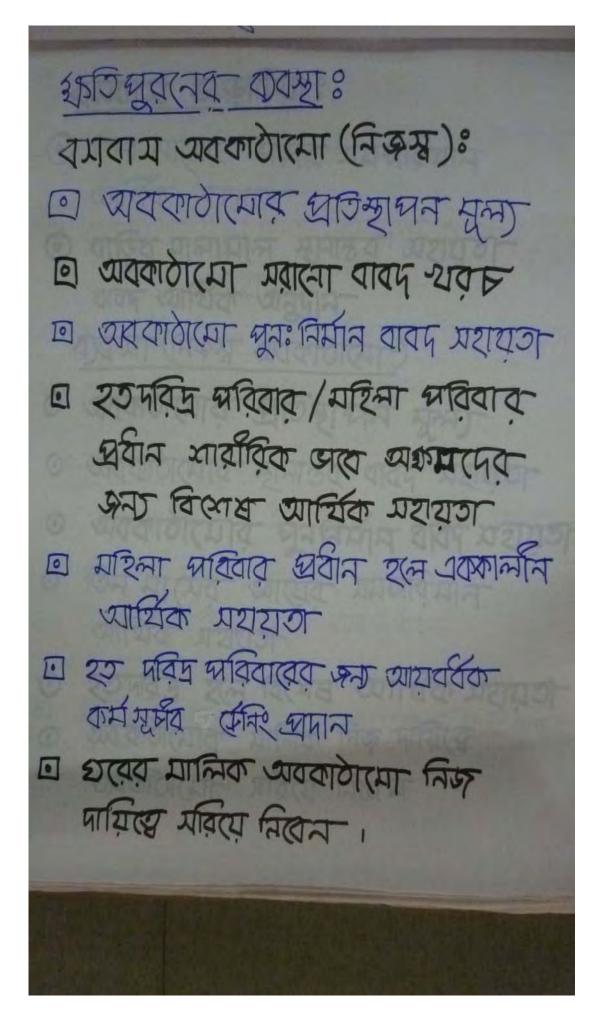


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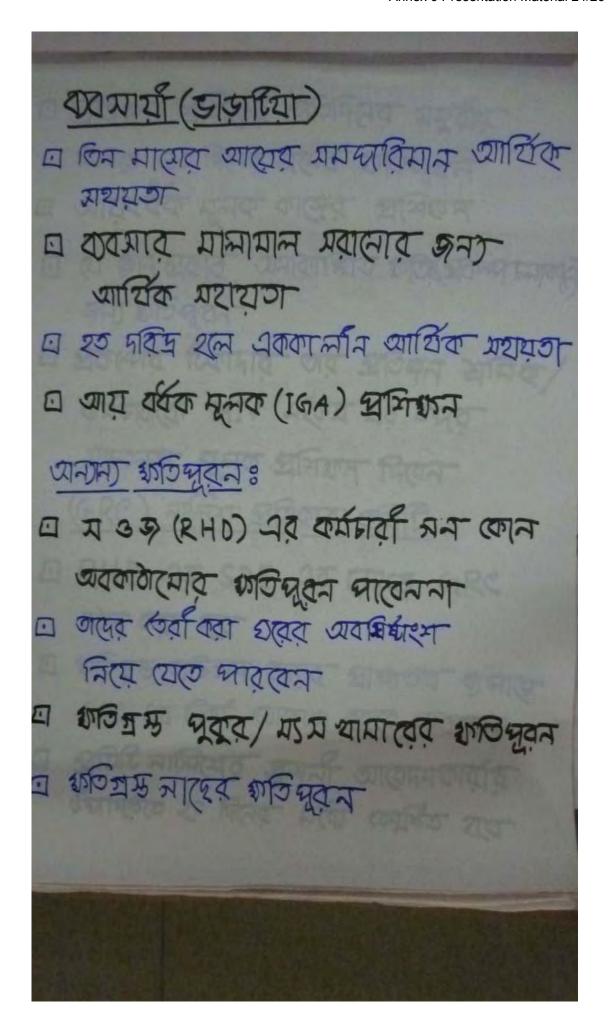
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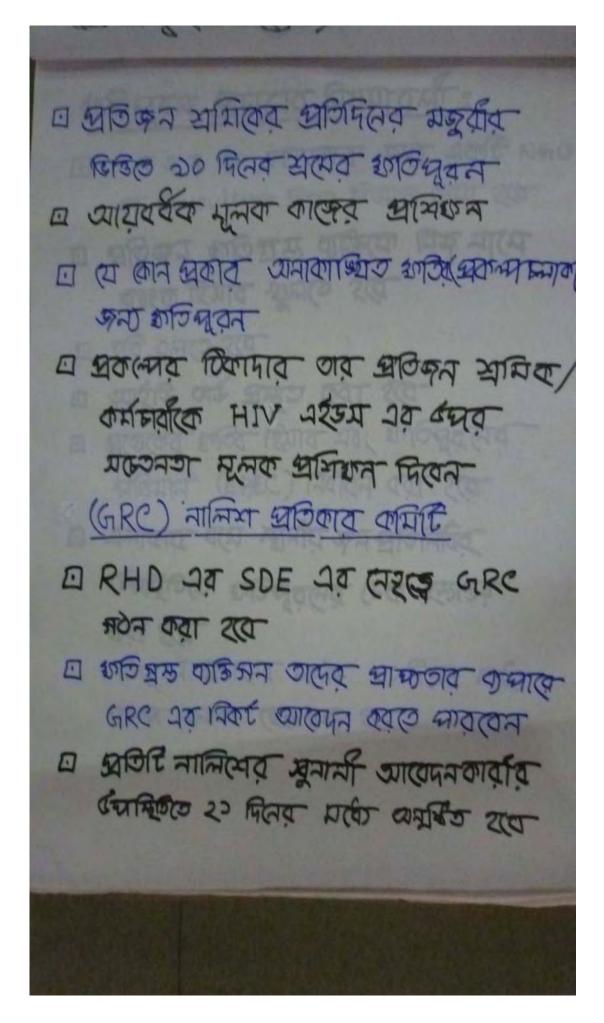
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## शाजिल्या खपात्व नियमावलाः म उ क (क मरामाग्य क्म) नक्टि NGO वा Consultano Firm नियान प्या राज व याज्य शावित्र पाउँ पाउँ पा तक नाय गार्क रिमाव शून्ल रख ত্র ছবি তুলতে হবে ত আহিছ কার্ প্রস্তুত করা হতে ण खळिकर स्थाव हिंगाव नाः स्थावस्वरं प्रव प्रविमान (EPEC) निर्वादन करा रख व अनाकार वर्ग मानाय क्रम खानिविद् स्वर्ष्यक मार्थिय किया कार्य कवा रख ण शालमूक्त खपात्व मलाम ०० पित्व मली खेक्त्र नेपाका किंद्र ति उरक