

# Environmental Monitoring Report

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June 2017

## BAN: Urban Primary Health Care Services Delivery Project

Prepared by Local Government Division, Ministry of Local Government, Rural Development  
and Cooperatives, Government of Bangladesh for the Asian Development Bank.

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## ABBREVIATIONS

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ADB	Asian Development Bank
CRHCC	Comprehensive Reproductive Health Care Center
DoE	Department of Environment
EA	Executing Agency
EIA	Environmental Impact Assessment
EMP	Environmental management plan
GoB	Government of Bangladesh
IA	Implementing agency
IEE	Initial environmental examination
LGD	Local Government Division
NGO	Non-government organization
O&M	Operation and Maintenance
PA	Partnership Area
PHC	Primary Health Care
PHCC	Primary Health Care Center
PPE	Personal protective equipment
PPP	Public-private partnership
REA	Rapid environmental assessment
SPS	Safeguards Policy Statement
UPHCSDP	Urban Primary Health Care Services Delivery Project

## I. INTRODUCTION

### A. Project Background

1. Urban Primary Health Care Services Delivery Project (UPHCSDP) in Bangladesh is the continuation of first and second phase of Urban Primary Health Care Project. The Project commenced in July 2012 and will be completed by April 2018. The total project cost is estimated at \$81 million and builds on the two previous Urban Primary Health Care Projects to further develop and institutionalize a sustainable system to deliver pro-poor primary health care (PHC) services in urban areas through public-private partnership agreements with NGOs and other service providers. The Local Government Division (LGD) of the Ministry of Local Government, Rural Development and Cooperatives is the Executing Agency (EA). Ten city corporations and four municipalities are the implementing agencies (IAs) in their respective project areas.

2. The project has three outputs: i) Strengthened Institutional Governance and Local Government Capacity to Sustainably Deliver Urban Primary Health Care Services; ii) Improved Accessibility, Quality, and Utilization of Urban Primary Health Care Services Delivery System, with a Focus on the Poor, Women, and Children, through Public-Private Partnership (PPP); and iii) Effective Support for Decentralized Project Management. Majority of the outputs pertain to capacity building and strengthening institutions which have limited interaction with the natural environment and generating limited environmental impacts. However, Output 2 entails physical infrastructure wherein construction and operation may generate environmental impacts and is the focus of this environmental monitoring. The project aims to establish in each of partnership area (PA) to have at least 1 Comprehensive Reproductive Health Care Center (CRHCC) and 3 PHC Centers (PHCC) for each CRHCC. In the municipalities, there should be 2 PHCCs and 1 CRHCC in each partnership area. Therefore, the project finances the construction of 13 CRHCCs and 26 PHCCs and upgrading of 5 CRHCCs and 1 PHCC. The project will expand and upgrade the existing infrastructure network of selected PHC facilities into green clinics (with solar panel and solar water heater) and support their operation and maintenance (O&M), including medical waste management. The architectural design of the facilities included improvements over the previous two project phase's facility design to respond to the needs of doctors, visitors and in-house patients. Total investment costs for civil works under UPHCSDP is about \$15.65 million. To date, total of 10 CRHCCs<sup>1</sup> and 19 PHCCs<sup>2</sup> are to be constructed under the ongoing project and to date 5 CRHCCs and 14 PHCCs have been completed and are operational; 4 CRHCCs and 4 PHCCs are almost completed; and 1 CRHCC and 1 PHCC are still under-construction (see Table I-1).

3. The UPHCSDP is classified as environmental category B and the conduct of annual environmental monitoring is required in the ADB SPS (2009) and emphasized in the environmental assessment and review framework (EARF).<sup>3</sup> The compliance to environmental safeguards of the UPHSDP is assessed based on the following: i) environmental provisions of the loan covenant; ii) EARF which defines the site screening and site selection for the CRHCCs and PHCCs, required environmental assessment, institutional arrangement to implement the environmental management and monitoring plans, and reports disclosure of all safeguard documents to include the initial environmental examination (IEE) and this environmental monitoring report (EMR); and iii) environmental management and monitoring plan (EMP) and integration in the civil works bidding documents.

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<sup>1</sup> Comprehensive Reproductive Health Care Centre

<sup>2</sup> Primary Health Care Centre

<sup>3</sup> <https://www.adb.org/sites/default/files/project-document/59845/42177-013-ban-earf-draft.pdf>

4. This EMR covers all health care centers identified under the UPHCSDP including ongoing construction and those operational as of May 2017. Compliance information were gathered through the review of secondary data available in the PMU, key PA NGO staff interviews, and site-visits of health care facilities supported under the current project in Comilla, Narayanganj, and Gopalganj.

**Table I-1. Status of CRHCC and PHCC Construction, UPHCSDP (May 2017)**

UPHCSDP Partnership Areas	Target		Status					
	CRHCC	PHCC	Completed and Operational		Completed not Operational		Under Construction	
			CRHCC	PHCC	CRHCC	PHCC	CRHCC	PHCC
Dhaka South City Corporation (DSCC)								
Dhaka North City Corporation (DNCC)	1		1					
Narayanganj City Corporation (NCC)	1	3	1	3				
Sylhet City Corporation		1		1				
Barisal City Corporation								
Rajshahi City Corporation	1		1					
Rangpur City Corporation	1	3		2	1	1		
Khulna City Corporation	1				1			
Gazipur City Corporation	2	2	1	1	1		1	
Comilla City Corporation		3		3				
Kishoregonj Municipality	1		1					
Gopalganj Municipality	1	2			1	1		1
Sirajgonj Municipality		1				1		
Kushtia Municipality	1	1		1	1			

## II. INSTITUTIONAL ARRANGEMENTS

5. The LGD through the PMU is responsible for the overall implementation of the EMP. The design, procurement, and construction supervision are the responsibility of the LGED that serves as a consultant of the project. Review of bidding documents and discussions with the PMU and LGED confirmed that bidding documents included the environmental management and monitoring plans detailing the roles and responsibilities of the contractors. During the construction stage, the contractors are responsible to mitigate all environmental impacts related with the construction activities while the LGED is responsible for the construction supervision including environmental monitoring. Ensuring environmental compliance during operation of the health care centers is the responsibility of the environmental specialist of the PMU. However, the resignation of the environmental specialist and the inability of PMU to find a suitable replacement to date has hampered the proper documentation of the health centers compliance to the Medical Waste (Management and Processing) Rules (2008), Solid Waste Management Rules (2010), other relevant laws, ADB’s environmental safeguards policies, and the requirements specified in the EARF.

## III. SAFEGUARD COMPLIANCE PERFORMANCE OF UPHCSDP

### B. Compliance with the Environmental Provisions of the Loan Covenant

6. Overall, the UPHCSDP has partly complied with the environmental provisions of the loan covenant. It has complied with the need to prepare and disclose the EARF that formed part of the Project Administration Manual, and the integration of the construction-phase environmental management plan (EMP) into the bidding documents that was prepared by the LGED. Although the LGED has conducted periodic and rigorous environmental monitoring of each CRHCC and PHCC construction, a compilation at the project level was not disclosed. The IEE report was not disclosed in both ADB and PMU websites. Status of compliance with the environmental provisions of the Loan Covenant and National Legal Instruments Related to the UPHCSDP are shown in Tables III-1 and III-2, respectively.

**Table III-1.** Status of Compliance with the Environmental Provisions of the Loan Covenant 2878-BAN (SF)

Environmental Provision	Status of Compliance
<p><b><u>Schedule 4. Conditions for Award of Contract 7.</u></b> The Borrower shall not award, and shall ensure that an Implementing Agency does not award: 18 (a) any Works contract which involves environmental impacts until (i) all government environmental clearances have been obtained for the IEE; (ii) the IEE has been cleared by ADB; and (iii) relevant EMP provisions have been incorporated into the respective Works contract;</p>	<p><b>Partly Complied with:</b> No IEE report was prepared and approved by the DoE. The project was classified as “Orange” under the Orange B for work that requires Initial Environmental Examination (IEE), and Red for work that requires full environmental assessment. EMP was prepared and attached in Environmental Assessment and Review Framework (EARF).</p>
<p><b><u>SCHEDULE 5 Execution of Project; Financial Matters Environment Safeguards 3.</u></b> The Borrower shall ensure, and shall cause each Implementing Agency to ensure, that the preparation, design, construction, implementation, operation and decommissioning of the Project and each subproject</p>	<p><b>Partly Complied with:</b> An EARF was prepared for the project however, no IEE was disclosed.</p>

<p>under the Project comply with:                  (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards;                  (c) the EARF; and                  (d) all measures and requirements set forth in the IEE and the EMP, and any corrective or preventative actions set forth in the Safeguards Monitoring Reports.</p>	
<p><b><u>Schedule 5. Safeguards – Related Provisions in Bidding Documents and Works Contracts</u></b></p> <p>6. The Borrower shall ensure, and shall cause each Implementing Agency to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to:                  (a) comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP and ..., and any corrective or preventative actions set out in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social safeguards measures; and (c) provide the Borrower and ADB with a written notice of any unanticipated environmental and other safeguards-related risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP ...</p>	<p><b>Partly Complied with:</b> Partially fulfilled the EMP attached in the Environmental Assessment and Review Framework (EARF)</p>

**Table III-2: National Legal Instruments Related to the UPHCSDP**

<b>Policies, Laws and Regulations</b>	<b>Responsible Agency/Ministry/Authority</b>	<b>Potential Applicability</b>	<b>Compliance Status</b>
National Environmental Policy, 1992	Ministry of Environment and Forest; Department of Environment	<ul style="list-style-type: none"> <li>➤ The policy sets out policies to prevent environmental pollution and natural resource degradation.</li> <li>➤ The Policy states that Environmental Impact Assessments (EIAs) must be conducted before projects are undertaken.</li> </ul>	<b>Not complied:</b> No IEE report was prepared and approved by the DoE.
The Environment Conservation Act, 1995	Ministry of Environment and Forest; Department of Environment	<ul style="list-style-type: none"> <li>➤ According to this law no industrial unit or project shall be established or undertaken without obtaining, in the manner prescribed by rules, an Environmental Clearance Certificate from the Director General.</li> </ul>	<b>Not complied:</b> No IEE report was prepared and approved by the DoE.
Environment Conservation Rules, 1997	Ministry of Environment and Forest; Department of Environment	<ul style="list-style-type: none"> <li>➤ The Rule sets out procedure for issuing Environmental Clearance Certificate.</li> <li>➤ According to the Rule, proposed project is a orange B category project and needs to fulfill following requirements <ul style="list-style-type: none"> <li>❖ Prepare Initial Environmental Examination report.</li> <li>❖ Report on the Environmental Management Plan (EMP).</li> <li>❖ Obtain No objection certificate of the local authority.</li> </ul> </li> </ul>	<b>Partly complied with:</b> No IEE report was prepared and approved by the DoE. -EMP was prepared and attached in EARF. -Obtain No objection certificate of the local authority.
Environmental Courts Act, 2000	Ministry of Environment and Forest; Department of Environment	<ul style="list-style-type: none"> <li>➤ Sets out policy for effective pursuance and completion of legal proceedings related to environmental crimes.</li> </ul>	<b>Complied with.</b> According to this act, government can take legal actions if any environmental problem occurs due to project interventions. To date, no notice of violation was received by the PMU.
National Land Use Policy, 2001	Ministry of Land	<ul style="list-style-type: none"> <li>➤ The policy provides guidelines for the protection of agricultural land, waterbodies and the optimal use of other land, as well as for restriction or minimization of the acquisition of land for non-productive use.</li> </ul>	<b>Complied with.</b> The project area does not evolve any land acquisition.
Bangladesh Climate Change Strategy and Action Plan (BCCSAP) 2009	Ministry of Environment and Forest	<ul style="list-style-type: none"> <li>➤ This strategy prioritizes adaptation and disaster risk reduction. The climate change action plan is built on six pillars. One of them is research and knowledge management to predict the likely scale and timing of climate change impacts on different sectors.</li> </ul>	<b>Complied with.</b> The UPHCSDP introduced the concept of green clinics and introduced solar energy systems.
Bangladesh Labour Act 2006	Ministry of Labour and Employment	<ul style="list-style-type: none"> <li>➤ The Act provides the guidance of employer's extent of responsibility and workmen's extent of right to get compensation in case of injury by accident while working.</li> </ul>	<b>Complied with.</b> Occupational Health and Safety has been addressed both in the EMP and Chapter for Impacts and Mitigation measures of this report

		Provides for safety of work force during construction period.	
Bangladesh National Building Code, 2006	Ministry of Housing and Public Works	<ul style="list-style-type: none"> <li>➤ Any planning, design and supervision of construction, repair, maintenance, modification and alteration of buildings, or any other work regulated by the Code shall be certified by a licensed engineer, architect or planner for its compliance with the provision of Code.</li> </ul>	<b>Complied with.</b> All building clearances from local municipal authorities before start of any construction activity.

### **C. Compliance with the Environmental Management Plan**

7. The environmental management plan (EMP) is prepared for all the identified environmental impacts during construction and operation stages due to implementation of various Project activities and associated development attached in Environmental Assessment and Review Framework (EARF).<sup>4</sup> The aim of the EMP is to ensure implementation of the recommended mitigation measures effectively. The mitigation measures are designed either to prevent impacts or by mitigating those to reduce the effect to an acceptable level that complies with the environmental guidelines of DOE and with the guidelines of the ADB's SPS (2009) by adopting the most suitable techno-economic options. The EMP also ensures that the positive impacts are conserved and enhanced. Compliance to Environmental Management Plan (EMP) is shown in Table III-3.

8. Recommended Mitigation Measures for each of the impacts are listed in Annex 1 of the EARF. Responsible institutions/departments for the implementation and supervision of each of the environmental issues have also been illustrated.

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<sup>4</sup> <https://www.adb.org/sites/default/files/linked-documents/42177-013-ban-earfab.pdf>

**Table III-3: Compliance to Environmental Management Plan (EMP)**

Concern Issue	Recommended Mitigation Measures	Action Taken	Compliances		
			Substantial	Partial	No
<b>During Construction Stage</b>		<b>Gopalganj Municipality</b>			
Drainage congestion/water logging	Consider the drainage system of the whole area in subproject design;	Considering during design;	√		
	Maintain cross-drainage at all times during construction;	Cross drain is maintained;	√		
	Prevent all solid and liquid wastes entering waterways by collecting solid waste and wastewater from brick, concrete;	Proper management of solid and liquid waste;	√		
	Drainage facilities will be integrated with water supply options and sanitary latrine facilities in planning and design;	Considering during planning and design;	√		
Losses of tress and vegetation	Consider alternation options to reduce the loss of trees and vegetation;	Considered;	√		
	A green fence will be raised with native tree species around the clinic/hospital;	Trees are planted around the clinic/hospital;	√		
	Plant same species of trees and vegetation as compensatory measures;	Trees are planted around the clinic/hospital;	√		
Dust and noise pollution	Spray of water during dry season and in windy conditions;	Spray of water regularly;	√		
	Immediate compaction after construction of base course;	Compacted after construction of base course;	√		
	Cover the stockpiles of fine materials in construction yard;	Covered the stockpiles of fine materials;	√		
	Plan the work schedule of noise creating activities in consultation of local community;	Work only during day time;	√		
	Employ best available work practices on-site to minimize occupational noise levels;	Best available work practices on-site to minimize occupational noise levels is implemented;	√		
Soil erosion during construction	Careful arrangement to stop soil erosion by adopting proper protection measure before starting earthworks;	During earth work no soil erosion occurs;	√		
Blocking of Roads/access/approach	Construction materials and machinery should not be placed in a manner that blocks any roads, paths or local accesses;	Construction materials and machinery placed on road side;			√
	Unloading of construction materials should be carried in a manner and time so as to avoid blockage of	Unloading of construction materials had blocked the roads;			√

	roads/paths/access;				
	Waste should not be placed on the roads;	Construction waste are placed in the road;			√
Water pollution from construction activities	Prohibit direct disposal of solid and liquid wastage into nearby water body;	No direct disposal into the nearby waterbody;	√		
	Spoil Management Plan should be implemented by the contractor;	Proper management of solid and liquid waste;	√		
Occupational health and safety	Implement suitable safety standards for all workers and site visitors;	No PPE are provided;			√
	Provision of first aid facility;	First aid facility is available;	√		
	Arrangement of safe drinking water and sanitation facilities for the labors working in the subprojects;	Water Jar is provided in construction site;	√		
Day lighting and ventilation system	Adequate windows in proper direction in consultation;	Adequate window is available;	√		
	Provision for adequate ventilation in the classrooms and office;	Adequate ventilation is available;	√		
Arsenic contamination in drinking water	Identify unions and upazillas based on DPHE survey where shallow or deep tube-wells are feasible;	During design, it is considered;	√		
	Analyze local surrounding arsenic test results and recommend for tube-wells or not;	During design, analyse arsenic test result;	√		
	Adopt rain water harvesting, pond sand filter, piped water supply;	Piped water supply is adopted;	√		
	After installation of tube-wells, presence of arsenic in the drinking will be tested and be used only it satisfy the Bangladesh standard;	No testing is done;			√
Selection of appropriate location for water source and sanitary latrine	Discuss with management committee and doctors and select a location which is convenient for clinic and not impacting on trees or any other common property resources;	Discussion is done;	√		
	A minimum distance of 15 m should be maintained between a tube-well and a latrine to prevent contamination of water resources. In case of shallow shrouded hand tube-wells, this distance should be 20 m as horizontal filters are used in this type of tube-wells;	Appropriate location for water source and sanitary latrine is selected.	√		

Extreme climate (e.g. cyclone, storm surge) and natural disasters (e.g. earthquake), etc.	Adoption of appropriate adaptation and disaster risk reduction strategy, emergency preparedness and recovery, training/orientation program for patients and doctors on climate change, disaster and earthquake, etc.	Training is provided.	√		
<b>During Operation Stage</b>		<b>Comilla City Corporation</b>			
Waste Management	Assign clear responsibility for waste management to members of management team;	Responsibility assigned;	√		
	Developed a waste management plan for the project assisted hospitals, with the emphasis on minimization of waste -segregation, source reduction, treatment and proper disposal Train hospital staff, including health care professionals, who produce waste;	Arrangement of three color collection bin for waste segregation in every rooms is present; Training conducted;	√		
	Envision waste disposal stores in hospital designs for full control of medical waste waiting for off- site transportation.	Assigned sub-contractor named Innovation Seba Sangstha for Collection of Medical Waste Management;	√		
	Treat infectious waste prior to disposal;	No treatment is done;			√
	Dispose waste only in landfill areas assigned by the local governments.	Disposed waste in local governments assigned area;	√		
	Ensure that adequate resources are allocated for health care waste management, including plastic bags, waste collection bins, sharp containers, trolleys, etc.	Adequate resources are allocated;	√		
<b>During Operation Stage</b>		<b>Narayanganj City Corporation</b>			
Waste Management	Assign clear responsibility for waste management to members of management team;	Responsibility assigned;	√		
	Developed a waste management plan for the project assisted hospitals, with the emphasis on minimization of waste -segregation, source reduction, treatment and proper disposal Train hospital staff, including health care professionals, who produce waste;	Arrangement of three color collection bin for waste segregation in every rooms is present; Training conducted;	√		
	Envision waste disposal stores in hospital designs for full control of medical waste waiting for off- site transportation.	Assigned person for Collection of Medical Waste Management;	√		

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	Treat infectious waste prior to disposal;	No treatment is done;			√
	Dispose waste only in landfill areas assigned by the local governments.	Disposed waste in local governments assigned area;	√		
	Ensure that adequate resources are allocated for health care waste management, including plastic bags, waste collection bins, sharp containers, trolleys, etc.	Adequate resources are allocated;	√		

#### D. Compliance to Site-Specific EMP (SEMP)

9. All construction works have been completed in Comilla and Narayanganj City corporation and now in operation stage. Construction works are ongoing in Gopalganj Municipality.

- Out of 30 mitigation measures, 25 are in compliance during construction stage in Gopalganj Municipality. Gopalganj Municipality has achieved 83% compliance rate.
- Out of 6 mitigation measures, 5 are in compliance during operation stage in Comilla City Corporation. Comilla City Corporation has achieved 83% compliance rate.
- Out of 6 mitigation measures, 5 are in compliance during operation stage in Narayanganj City Corporation. Narayanganj City Corporation has achieved 83% compliance rate.
- Recommended Mitigation Measures for each of the impacts listed in the Annex 1 of EARF. Responsible institutions/departments for the implementation and supervision of each of the environmental issues have also been illustrated.

10. Overall, of the 42 mitigation measures prescribed in the EMP, there is 83% compliance rate (Table III-4). Only 17% of the mitigation measures were not complied.

**Table III-4:** Summary of EMP Implementation during Construction and Operation Stages

Name of City Corporation/ Municipality	Total No. Mitigation Measures Prescribed in EMP	In Compliance			% Compliance
		Substantial	Partial	No	
<b>During Construction Stage</b>					
Gopalganj Municipality	30	25	0	5	83%
<b>During Operation</b>					
Comilla City Corporation	6	5	0	1	83%
Narayanganj City Corporation	6	5	0	1	83%
<b>Total</b>	<b>42</b>	<b>35</b>	<b>0</b>	<b>7</b>	<b>83%</b>
% of Total	100%	83%	0%	17%	

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#### IV. CONCLUSIONS AND RECOMMENDATIONS

11. Overall, the UPHCSDP has substantial compliance to the environmental safeguards requirement set by the ADB and the GoB. No notices of violation were received by the PMU for any of the centers. On-site monitoring was conducted for 10 centers and no significant adverse impacts or unanticipated impacts were recorded. Substantial compliance was achieved on the legal requirements. No record was available whether the IEE report was submitted to the DoE for approval; however, since this is a prerequisite for the issuance of the building permit to which the project registered complete compliance, there is reason to believe the IEE requirement was also complied.

12. Nevertheless, significant non-compliance of the project was noted on the non-disclosure of the initial environmental examination (IEE) and annual monitoring reports. It was noted that most of the elements of the IEE, i.e., Rapid Environmental Assessment (REA) screening, baseline, and environmental management and monitoring plans impacts report were embedded in the disclosed EARF. Annual monitoring is being implemented by the LGED on the construction of the CRHCCs and PHCCs with complete documentation. The shortcomings on the disclosure of the reports were tracked to the intermittent and early departure of the environmental specialist of the PMU's pool of consultants.

**APPENDIX A: PHOTOGRAPHS OF SITE VISITS AND CONSULTATIONS**



Fire extinguisher facilities at CRHCC Narayanganj



Waste collection system facilities at CRHCC Narayanganj



Consultation with stakeholder at Narayanganj



Consultation with stakeholder at Narayanganj



Six stored CRHCC at Narayanganj



Three stored PHCC-2 at Narayanganj



Fire extinguisher facilities at CRHCC Comilla



Waste collection system facilities at CRHCC Comilla



Incinerator facilities at CRHCC Comilla



Safe drinking water facilities at CRHCC Comilla



Consultation with project personnel at Comilla



Two stored PHCC-1 at Comilla



Construction activities without PPE at Gopalganj



Road block due to construction materials at Gopalganj



Consultation with project personnel at Gopalganj



Six stored CRHCC-1 at Gopalganj

**APPENDIX B: PEOPLE MET DURING THE ENVIRONMENTAL MONITORING**

<b>Name of City Corporation/Municipality</b>	<b>Name of personnel</b>	<b>Date of visit</b>
Comilla City Corporation (CoCC)	Md Golam Rasul Project Manager, CRHCC, CoCC	13 <sup>rd</sup> April, 2017
	Md. Helal Uddin, Program Manager, UPHCSDP & Secretary, CoCC	
	Ripa Parvin, M & QA Officer, PIU, UPHCSDP, CoCC	
Narayanganj City Corporation (NCC)	Dr. Shekh Mustofa Ali, Program Officer, PIU, UPHCSDP, NCC	18 <sup>th</sup> April, 2017
	Md. Shafiqul Islam Faraji, M & QA Officer, PIU, UPHCSDP, NCC	
	Md. Rulhul Amin, Councilor, Ward No. 8, NCC	
Gopalganj Municipality	K.G.M. Mahmud, Program Officer, PIU, UPHCSDP & Secretary, GM	16 <sup>th</sup> May, 2017
	Sheikh Mohammed Maksuder Rahaman, M&QAO, PIU, UPHCSDP, GM	