

# Semi-Annual Environmental Monitoring Report

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Project number: 42173-013

Period: January – June 2020  
Submission Date: November 2020

## BAN: Dhaka Environmentally Sustainable Water Supply Project – PART A

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**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT  
FOR  
JANUARY – JUNE 2020**

**Dhaka Environmentally Sustainable Water Supply Project (DESWSP)  
Dhaka Water Supply and Sewerage Authority**

**Funded by**

**Asian Development Bank and Government of Bangladesh  
ADB Loan No. 3051-BAN**



**Part A:**

**Distribution Network Improvement (DNI)**

Package No.: ICB 02.7

Package No.: NCB 4.1

**Part B:**

**Intake, Raw Water Pipeline, WTP, Treated Water Pipeline & Distribution Network**

ICB-01/B&D/DESWSP/2014 (Package 1)

ICB-3.0/TWP/DESWSP/2018 (Package 2)

ICB-3.1/DRP/DESWSP/2018 (Package 3.1)

ICB-3.2/FL/DESWSP/2018 (Package 3.2)

9th floor, WASA Bhaban, 98 Kazi Nazrul Islam Avenue, Karwan Bazar, Dhaka-1215

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## Executive summary

This tenth Semi-annual Environmental Monitoring Report covers the period from January to Jun 2020, prepared in compliance with the environmental scope of the construction supervision of Packages ICB 2.7, NCB 4.1 & P1 of DESWSP. The main purpose of this monitoring is to ensure the implementation of environmental mitigation measures during the construction phase. Environmental issues are also anticipated to be identified in advance for avoidance and to ensure timely completion of the project. Construction works of other Packages of P2, P3.1, and P3.2 have not yet started.

This report is produced by Management Supervision Consultant (MSC) & the Management Design and Supervision Consultant (MDSC) providing services to the PMU, Dhaka Environmentally Sustainable Water Supply Project of DWASA, Ministry of Local Government Rural Development and Cooperatives (MLGRDC) of the Government of the People's Republic of Bangladesh supported by the Asian Development Bank (ADB), European Investment Bank (EIB) and Agency France De Development (AFD), Loan Number: 3051-BAN.

DWASA is responsible for providing potable water supply services to about 90% of Dhaka's population, sewerage services, and storm water drainage services throughout its 400km<sup>2</sup> services areas. In fact, the city relies heavily on groundwater sources for water supply, but current abstraction exceeds sustainable yields, water table levels are falling by 2 to 3 m /year and increasing numbers of tube wells become inoperable. Groundwater extraction is expected to be reduced from 1,900 MLD in 2012 to 1,360 MLD by 2020 and 1,260 MLD by 2025. In addition, ground water quality deteriorates continuously. At the same time, the overall supply needs to be increased to cater for the growing population in a larger service area

The objectives of SAEMR are: (a) Ensure that the construction activities are implemented in a responsible non-detrimental manner; (b) Provide a practical working tool to enable the measurement and monitoring of environmental performance on site; (c) Detail specific actions to assist in mitigating the environmental impact of the construction; and (d) Ensure that safety guidance are complied with. The site-specific management plan (SSMP) includes a monitoring program to measure the environmental condition and effectiveness of implementation of the mitigation measures. It will include observations on-and off-site, document checks, and interviews with workers and beneficiaries.

Dhaka Water Supply and Sewerage Authority (DWASA) is both the Executing Agency (EA) and Implementing Agency (IA). A Project Management Unit (PMU) has been established to monitor the project work execution and implementation. The PMU is being assisted by a Management and Supervision Consultants (MSC) in (i) distribution system and quality improvement; (ii) capacity building and institutional strengthening; and (iii) project management and implementation support. The project is being implemented under the contract package ICB 02.7 covers the area commonly known as MODS Zone-6 of DWASA comprising of 16 DMAs from DMA 601-616. The contract package of ICB 02.7 was signed on 24th April, 2014.

The project under the contract package ICB 02.7 is subdivided into 16 district metered areas (DMAs) which will be hydraulically isolated from one to another with at least one water export and import facility between the adjacent DMAs.

- Overall project description and objectives
  1. Eastern part of HatirJheel, Eden girls college, Hatir pool Bazar, Fuller road Paribagh, SAARC fountain, Panthokunja South part of Begunbarikhal, North of ZahirRayhan road bango bazaar

Gulistan bus terminal, RAJUK Bangabhaban Bangladesh bank, Khilgaone flyover, Moddhyabashabo. Nandipara bazaar Uttar Mugda, Dakshingaone, Sunna, Par Digar.

- As per Original schedule the work consists of 305 km of water distribution network, 71 km of reticulation line and rehabilitation around 41000 of service connections including installation of new meters supply of fittings etc. Up gradation of more than 100 Deep Tube Wells are included in the package. Survey, modeling and detailed design are also included in the package.
- With consent of the last ADB mission the time for completion of the project has been extended for the period of June, 2020 and the quantities of the distribution pipe lines has been increased to 394 km with 102.8 km of reticulation lines, total 496.80 km. The newly constructed roads and by lanes has been incorporated in the network. The quantity of service connection has been decreased to 37,300 instead of 41,000. The service connections of Dhaka University & BUET will be using their existing service connections under the control of respective universities.

The Package 1 (P1) consists of the following components:

- i. Construction of an intake at the Meghna River within the village of Bishnondi, with pumping and other facilities to deliver an uninterrupted supply of water into the transmission mains. This intends to withdraw up to 1,050 MLD from Meghna River in two phases for transmission to Dhaka city and for distribution after treatment.
- ii. Construction of 22km raw water transmission pipelines connecting the raw water intake with the Gandharbpur water treatment plant (WTP);
- iii. Construction of a 500-MLD surface water treatment plant at Gandharbpur, (DWASA Land).
- iv. Package 1 Contractor is SUEZ of France
- v. Contract Amount: USD 382,935,524.22
- vi. Revised Contract Amount: USD N/A
- vii. Contract Signed: 16th May 2018
- viii. Location: P1 (construction of Intake, RWT, & WTP)

The responsible environmental safeguard Officer Mr. Saidur Rahman of PMU Safeguard Implementation Unit, (SIU) reviews the environmental reports related to the project and evaluate monitoring of compliance of the contractors' performance with the approved EMPs, environmental standards and other environmental commitments of the contractor. Environmental monitoring in the field is among the work scope of the Engineer (MDSC-MML), and the tasks of actual monitoring is undertaken by the Contractor in association with international and national environmental specialists, and environmental field inspector.

Prior to commencing a civil work all the required statutory clearances have to be obtained with regard to the P1 package, classified by ADB as 'B' Category project. As such, environmental statutory clearances for the Project are related construction of intake, to removal of trees, excavation of raw water transmission line, vegetation clearance at GWTP site, and acquisition of land, temporary acquisition and rental for contractor's camp and office, material stockpile, equipment storage area etc., However, clearances and no-objection letters for these activities have been obtained from the WARPO, DoE, LGED, Arahazar and Rupganj Upazillas of Narayanganj District where the alignment will pass (Detailed in IEE P1).

During this period, the following works have been performed:

- i. The Contractor has arranged for access to Intake Site up to the shore of River Meghna and at water treatment plant side;
- ii. Mobilized equipment and the barge at the river shore;
- iii. Clearing and grubbing of the Intake and WTP site;

- iv. Dyke construction is in progress which will be filled by sand at both Intake and WTP site.
- v. Graveyard issue at WTP by an alternative relocated land of DWASA is under progress.
- vi. Meetings with various utility authorities were initiated by the Engineer and discussions are continuing between the Contractor and the authorities regarding identification and relocation of services that will be affected by the works.

The construction works include the following:

- i. Land acquired for the RWTL are mostly agricultural
- ii. Relevant warning signs have been installed
- iii. Removal of the topsoil layer was conducted in proposed intake and GWTP areas and need to re-cultivation after construction.

Drainage system ensured to avoid the formation of standing water, all the sites were equipped with proper drainage, watercourses and gateways.

Finally, the initial works carried out by the Contractor-SUEZ for environmental protection was assessed moderate by the environmental team of MDSC-MML. The Contractor is advised to pay proper attention on H&S aspects including safeguard of aquatic ecology. In short, the H&S issues are: (a) all relevant rules for protection of health and safety of the workers, and community should be followed, and the Contractor will be made aware of this responsibility; (b) proper restriction signs and other methods should be applied to prevent unwanted entry of people in to the construction area; (c) training for workers on appropriate methods for handling asbestos materials; (d) use of individual protection means, PPE, first-aid support; (e) prior health check-ups of workers involved in the construction works. Contractor shall appoint a Fire Officer who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed; (f) smoking shall not be permitted in those areas where it is a fire or health hazard, etc. In addition, the Contractor should comply with EMP requirement.

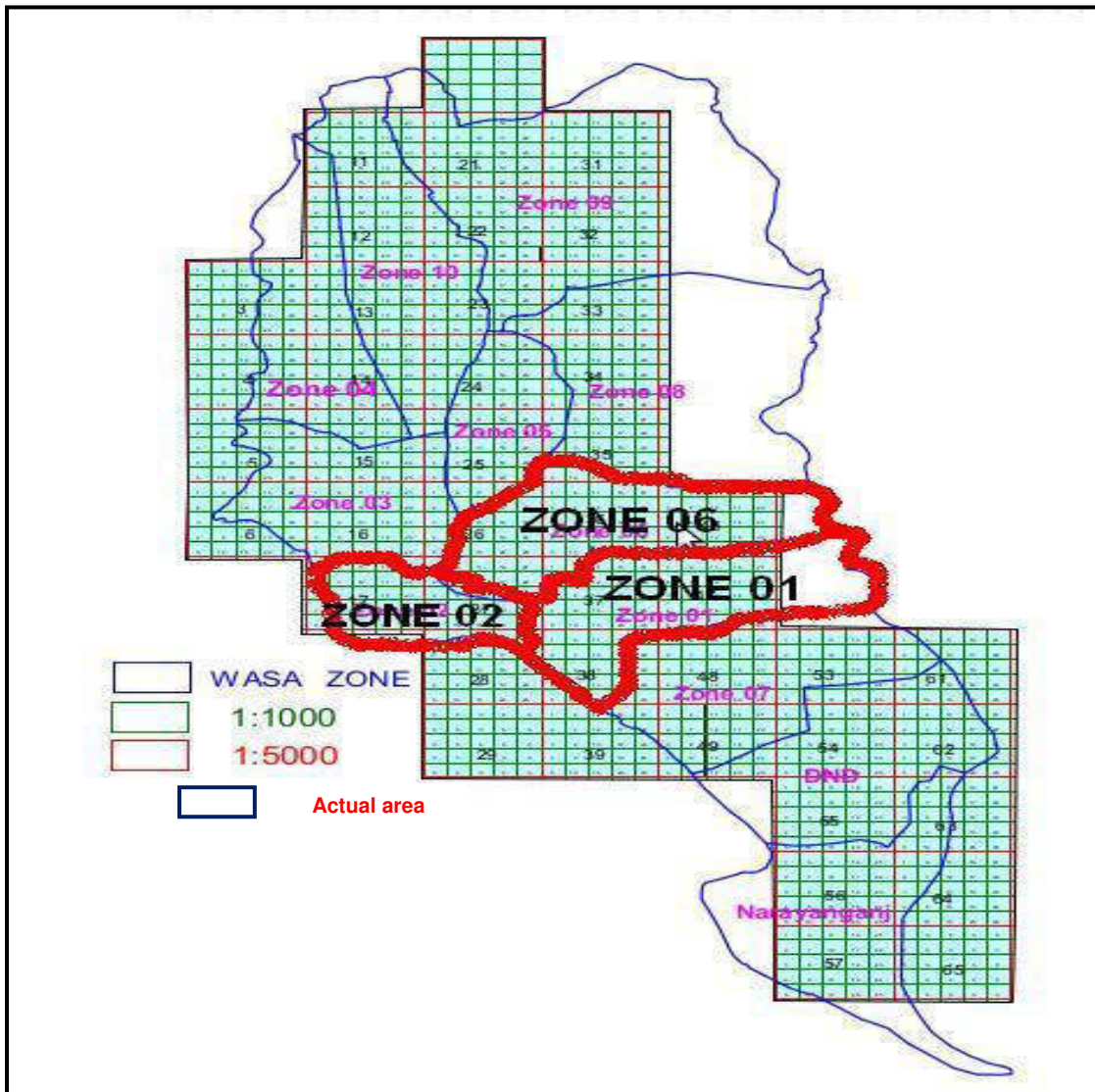
However, no national law violation has been detected by the environmentalists of MDSC during this period. There was no serious environmental problem identified during this period especially on establishment of construction camp, construction of on-shore platform, sheet piling, reservoir excavation and backfilling, DSM for chemical building and ground reservoir. Noise and air quality monitoring has been conducted by GWT. The results are presented in Annex G.

**Part A Distribution Network Improvement (DNI) (Package No.: ICB 02.7)**

10<sup>th</sup> PROJECT (DESWSP) SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT (January-June, 2020)

Dhaka Environmentally Sustainable Water Supply Project (DESWSP)

Management and Supervision Consultancy (MSC) for Distribution Network Improvement (ICB 02.7)




PREPARED BY:


 Kunhwa Engineering & Consulting Co. Ltd., Korea

in Joint Venture with

 Development Design Consultants Ltd., Bangladesh

 Consulting Engineers and Architects Ltd., Bangladesh

in association with

 Acular Consultants Ltd., Bangladesh

## introduction

1. Dhaka Water Supply and Sewerage Authority (DWASA) is both the Executing Agency (EA) and Implementing Agency (IA). A Project Management Unit (PMU) has been established to monitor the project work execution and implementation. The PMU is being assisted by a Management and Supervision Consultants (MSC) in (i) distribution system and quality improvement; (ii) capacity building and institutional strengthening; and (iii) project management and implementation support. The project is being implemented under the contract package ICB 02.7 covers the area commonly known as MODS Zone-6 of DWASA comprising of 16 DMAs from DMA 601-616. The contract package of ICB 02.7 was signed on 24th April, 2014.

2. The project under the contract package ICB 02.7 is subdivided into 16 district metered areas (DMAs) which will be hydraulically isolated from one to another with at least one water export and import facility between the adjacent DMAs.

- Overall project description and objectives

2.

- Eastern part of HatirJheel, Eden girls college, Hatir pool Bazar, Fuller road Paribagh, SAARC fountain, Panthokunja South part of Begunbarikhal, North of ZahirRayhan road bango bazaar Gulistan bus terminal, RAJUK Bangabhaban Bangladesh bank, Khilgaone flyover, Moddhyabashabo. Nandipara bazaar Uttar Mugda, Dakshingaone, Sunna, Par Digar.
- As per Original schedule the work consists of 305 km of water distribution network, 71 km of reticulation line and rehabilitation around 41000 of service connections including installation of new meters supply of fittings etc. Up gradation of more than 100 Deep Tube Wells are included in the package. Survey, modeling and detailed design are also included in the package.
- With consent of the last ADB mission the time for completion of the project has been extended for the period of June, 2020 and the quantities of the distribution pipe lines has been increased to 394 km with 102.8 km of reticulation lines, total 496.80 km. The newly constructed roads and by lanes has been incorporated in the network. The quantity of service connection has been decreased to 37,300 instead of 41,000. The service connections of Dhaka University & BUET will be using their existing service connections under the control of respective universities.
- The project will contribute to sustained economic growth and public health improvement in the urban water supply sector, particularly in Dhaka Metropolitan Area, through the improvement of living standards by improving the water supply. The supply of clean water will reduce child mortality, improve general health, convert into time for economic activity by saving time spent fetching and storing water, and conserving precious natural resources, the surface and groundwater. Further, the trenchless method of laying of pipelines will reduce the public sufferings remarkably during implementation phase of the work.

- Environmental category as per ADB Safeguard Policy Statement, 2009

3.

4.

3. ADB requires the consideration of environmental issues in all aspects of ADB's operations, and the requirements for environmental assessment are described in ADB SPS, 2009. This states that ADB requires environmental

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assessment of all project loans, program loans, sector loans, sector development program loans, loans involving financial intermediaries, and private sector loans.

4. ADB's Screening and Categorization: The nature of the environmental assessment required for a project depends on the significance of its environmental impacts, which are related to the type and location of the project; the sensitivity, scale, nature, and magnitude of its potential impacts; and the availability of cost-effective mitigation measures.

Projects are screened for their expected environmental impacts, and are assigned to one of the following four categories:

5. (i) **Category A.** Projects could have significant adverse environmental impacts. An EIA is required to address significant impacts.
6. (ii) **Category B.** Projects could have some adverse environmental impacts, but of lesser degree or significance than those in category A. An IEE is required to determine whether significant environmental impacts warranting an EIA are likely. If an EIA is not needed, the IEE is regarded as the final environmental assessment report.
- (iii) **Category C.** Projects are unlikely to have adverse environmental impacts. No EIA or IEE is required, although environmental implications are reviewed.
7. (iv) **Category FI.** Projects involve a credit line through a financial intermediary or an equity investment in a financial intermediary. The financial intermediary must apply an environmental management system, unless all projects will result in insignificant impacts.
8. This project, as explained above has been classified by ADB as **Category B**, because it is not expected to have major negative environmental impacts. Under ADB procedures such projects require an IEE to identify and mitigate the impacts, and to determine whether further study or a more detailed EIA may be required.

9. GoB's Screening and Categorization: The implementation of the projects will be governed by Environmental Acts, Rules, Regulations and Standards of Government of Bangladesh (GoB). These regulations impose restrictions on the activities to minimize/mitigate likely impacts on the environment. It is the responsibility of DWASA to ensure projects are consistent with the legal framework, whether national, state, or municipal/local. Compliance is required in all stages of the project, including design, construction, and operation and maintenance.

10. The main provisions for environmental protection and pollution control in Bangladesh are contained in the Environmental Conservation Rules 1997. This legislation also provides the principal mechanism for assessing and mitigating the environmental impacts of projects, both existing and proposed. Projects are classified as green, orange, or red depending on their location and environmental impacts, and Schedule 1 of the law indicates that "water, power and gas distribution line laying/relaying/extension" are considered as **RED** Category activities.

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11. Rule 7 states that the proponent of such projects must obtain a Location Clearance Certificate and an Environmental Clearance Certificate (ECC) from the DoE. For proposed **RED** category projects this requires submission to the relevant DoE Divisional Officer of the following:

12. (i) Completed application for ECC and the appropriate fee, shown in Schedule 13 of the Rules;
  13. (ii) Report on the feasibility of the project;
  14. (iii) Report on the IEE for the project, Terms of Reference (ToR) for an EIA of the project, and its process flow diagram; or an EIA prepared from a previously approved TOR, layout plan, process flow diagram, and design and time schedule;
  15. (iv) No Objection Certificate (NOC) from the local authorities;
  16. (v) Emergency plan relating adverse environmental impact and plan for mitigation of the effect of pollution; and
  17. (vi) Outline of the relocation and rehabilitation plan (where applicable).
18. Discussions with DoE in August 2006 suggested that the IEE, Resettlement Framework and other study reports prepared during DWSSDP preparation in 2006 should fulfill a substantial proportion of the national EIA requirements. Upon submission of the necessary documents including a draft IEE for ICB 02.7, Environmental Clearance Certificate is obtained and is available at Project Management Unit (PMU) office.

### I. Project Safeguards Team

19.

| Name              | Designation/Office               | Email Address  | Contact Number |
|-------------------|----------------------------------|--|----------------|
| 1. PMU            |                                  |  |                |
| Md Saidur Rahman  | Safeguard officer (Env)          | <a href="mailto:Saidur.r.m.plc@gmail.com">Saidur.r.m.plc@gmail.com</a> | 8801715149604  |
|                   |                                  |  |                |
| 2. PIUs           |                                  |  |                |
| Md. Kauser Hossen | PE / Env & safgrd officer        | <a href="mailto:Rfl997@rflgroupbd.com">Rfl997@rflgroupbd.com</a>       | 8801844665521  |
| Md. Shakil kawser | Site Engr / Env & safgrd officer | <a href="mailto:Rcl11@rclgroupbd.com">Rcl11@rclgroupbd.com</a>         | 8801844601811  |
|                   |                                  |  |                |
| 3. Consultants    |                                  |  |                |
| Parthoprotim Paul | Environmental Inspector          | <a href="mailto:engrpartho1992@gmail.com">engrpartho1992@gmail.com</a> | 01766945414    |
|                   |                                  |  |                |
|                   |                                  |  |                |

### II. Overall project and subproject/package progress and status

20. The up-to-date revised quantity of the water pipe line under the project is 496.80 km., quantity installed 493.84 km, which is 99.40 % of the total quantity, total nos. of completed service connections are 35,672 out of 37,300 that is 95.63% of the H/C total. Cumulative progress was 93.29% up to last report December'19 and stands to 97.43 % at the end of this reporting period June, 2020. Due to Pandemic

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COVID situation government holidays and lockdown from 25 March to May30 2020 all field work have been stopped and re started on 1<sup>st</sup> June. The reason why the project progress fallen behind.

| Package Number | Components/List of Works                 | Type of Contract (DB) | 21. Status of Implementation<br>22. (On-going Construction) <sup>1</sup>                                       | Contract Status ((contract awarded) | 4. If On-going Construction |                             |
|----------------|--|-----------------------|--|-------------------------------------|-----------------------------|-----------------------------|
|                |  |                       |  |                                     | %Physical Progress          | 6. Expected Completion Date |
| ICB-02.7       | Water supply Network improvement project | DB                    | Detailed design completed 100%<br>Ongoing construction progress  | Awarded                             | 97.43%                      | October,2020 (Physical)     |
|                |  |                       | Out of 16 , DMA 602, 603, 604, 606, 609 ,612, 601, 607, 608 and 610 = 10 DMAs has been handed over             |                                     |                             |                             |
|                |  |                       | Pipe line installation completed in DMA 614  |                                     |                             |                             |
|                |  |                       | Commissioning running at DMA 613.  |                                     |                             |                             |
|                |  |                       | Pre commissioning completed at DMA 611 and ready for commissioning.  |                                     |                             |                             |
|                |  |                       | House /service connection going on at 614, 615 and 616   |                                     |                             |                             |
|                |  |                       | DMA 605 is ready for hand over   |                                     |                             |                             |
|                |  |                       | Segment wise Pre commissioning running are at the finishing stage at DMA 614 and 615. One segment left in each |                                     |                             |                             |
|                |  |                       | Pipe installation, Inter connection and house connection running at DMA 615 and 616                            |                                     |                             |                             |

**21. 3. 1 the physical work progress up-to June, 2020**

| Sl. No. | Construction Batch    | DMA No. | Work Status up-to June , 2020             |       |                           | Remarks         |
|---------|-----------------------|---------|---|-------|---------------------------|-----------------|
|         |                       |         | Physical Works                            | RP/AP | EMP/IEE                   |                 |
| 1       | Construction Batch -1 | 602     | Handed Over to PCU (Zone-6) on 04/01/2017 | Done  | EMP and IEE has completed | Works Completed |

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| Sl. No. | Construction Batch   | DMA No. | Work Status up-to June , 2020             |       |  | Remarks   |
|---------|----------------------|---------|---|-------|--|---|
|         |                      |         | Physical Works                            | RP/AP | EMP/IEE  |   |
| 2       |                      | 603     | Handed Over to PCU (Zone-6) on 16/03/2017 | Done  | and already been published   | Works Completed   |
| 3       |                      | 604     | Handed Over to PCU (Zone-6) on 25/01/2017 | Done  | in ADBs Website  | Works Completed   |
| 4       |                      | 606     | Handed Over to PCU (Zone-6) on 28/08/2017 | Done  | EMP and IEE has completed  | Works Completed   |
| 5       | Construction Batch-2 | 609     | Handed Over to PCU (Zone-6) on 03/01/19   | Done  | and already been published   | Works completed   |
| 6       |                      | 612     | Handed Over to PCU (Zone-6) on 17/09/19   | Done  | in ADBs Website  | Works completed   |
| 7       | Construction Batch-3 | 601     | Handed Over to PCU (Zone-6) on 07/02/2018 | Done  | EMP and IEE has completed and already been published in ADBs Website | Works Completed   |
| 8       |                      | 605     | Commissioning running.                    | Done  |  | Will be handed over as soon as the commissioning is over.       |
| 9       |                      | 607     | Handed Over to PCU (Zone-6) on 13/12/2017 | Done  |  | Works Completed   |
| 10      |                      | 608     | Handed over to PCU (Zone-6) on 23/10/2018 | Done  |  | Works Completed   |
| 11      | Construction Batch-4 | 610     | Handed Over to PCU (Zone-6) on 202.09.19  | Done  | EMP has approved and IEE published in ADB website                    | Works Completed   |
| 12      |                      | 611     | Meter shifting completed.                 | Done  |  | Awaiting for Commissioning                                      |
| 13      |                      | 613     | Commissioning is running                  | Done  |  | Commissioning will be completed on 10 <sup>th</sup> August,2020 |
| 14      | Construction Batch-5 | 614     | Service connection running                | Done  | EMP and IEE has completed and already been published in ADBs Website | Service connection delaying for road cutting permission         |
| 15      |                      | 615     | Pipe Installation running                 | Done  |  | Physical work completed 80%                                     |

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| Sl. No. | Construction Batch | DMA No. | Work Status up-to June , 2020 |       |         | Remarks                     |
|---------|--------------------|---------|-------------------------------|-------|---------|-----------------------------|
|         |                    |         | Physical Works                | RP/AP | EMP/IEE |                             |
| 16      |                    | 616     | Pipe Installation running     | Done  |         | Physical work completed 75% |

92.

93.



94.

95.

**22. Package-wise Contractor/s' Nodal Persons for Environmental Safeguards**

| 6. Package Name | 97. IEE Cleared by ADB (provide date) | 9. Contractor      | 100. HSE Nodal Person | 101. Email Address      | 102. Contact Number |
|-----------------|---------------------------------------|--------------------|-----------------------|-------------------------|---------------------|
| 3. ICB-02.7     | 4.                                    | 5. RFL-FSL-CRFG JV | 6. Md.Shakil Kawser   | 7. Rcl11@rclgroupbd.com | 8. 8801844601811    |
| 9.              | 0.                                    | 1.                 | 2.                    | 3.                      | 4.                  |
| 5.              | 6.                                    | 7.                 | 8.                    | 9.                      | 0.                  |

**III. STATUS OF IEE PER SUBPROJECT/PACKAGE.**

23. The IEE report including EMP that has already been prepared providing necessary recommendations on how the potential environmental hazards' impacts could be mitigated. The IEE guided to develop environmental management plan to provide a set of guidance on what, how, when and where the mitigation measures have to be implemented. It

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includes also who has to implement and monitor the implementation of mitigation measures in different phases of the project. The Initial Environmental Examination (IEE) report prepared under the feasibility stage included an EMP that:

- Provides the basic information about the existing environmental features as baseline of the sub-project areas and what will be the potential environmental impacts;
- Provides the recommendations to mitigate potential environmental impacts and describes on how to implement in the Environmental Management Plan (EMP);
- Provides guidance on how the environmental monitoring has to be carried out; and
- Indicates what kind of environmental lawful clearance will need to be obtained.

24. The IEEs including EMPs of construction batch 1 (DMAs 602, 603 and 604), batch 2 (DMAs 606, 609 and 612), batch 3 (DMAs 601, 605, 607 and 608), batch 4 (DMAs 610, 611 and 613) has already been completed already published in ADBs Website. IEEs and EMP for construction was published in project website ([www. DESWSP-DWASA.com](http://www.DESWSP-DWASA.com)) EMPs of construction batch-5 (DMA 614, 615 and 616) reviewed and approved. The updated IEE report for construction batch-5 (DMAs 614, 615, 616] has been approved by DWASA and published in ADB website (<https://www.adb.org/sites/default/fi>).

### 25. Package-wise Implementation Status

| 1. Package Number | 122. Final IEE based on Detailed Design                        |  |   |   | 23. Site-specific EMP (or Construction EMP) approved by Project Director? <sup>2</sup> | 5. Remarks |
|-------------------|--|--|---|---|--|------------|
|                   | 26. Not yet due<br><i>(detail ed design not yet completed)</i> | 8. Submitted to ADB<br><i>(provide date of submission)</i> | 10. Disclosed on project website<br><i>(provide link)</i> | 2. Final IEE provided to Contractor/s<br><i>(Yes/ No)</i> |  |            |
| 5. ICB-02.7       | 6.   | 7.   | 8.  | 39. Yes   | 40. Yes  | 1.         |
| 2.                | 3.   | 4.   | 5.  | 6.  | 7.   | 8.         |
| 9.                | 0.   | 1.   | 2.  | 3.  | 4.   | 5.         |

### IV. Compliance status with National/State/Local statutory environmental requirements<sup>3</sup>

26. At the time of project preparation at feasibility stage, the TAPP consultants were deputed for the survey and preparation of IEE for the DESWSP (Ref: IEE, DWASA, 2006). As part of detailed project preparation, environmental screening and assessment reports, IEEs were prepared by environmental consultant engaged by the DWASA supported by ADB. Further, the consultant suggested to ensure in procurement process that all information required for environmental safeguard stated in the Environmental Assessment (EA) report and Environmental Management Plan (EMP) which have been prepared earlier under the

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respective pipeline rehabilitation clauses have been incorporated in the work schedule so that contractors field work force adopted the mitigation measures associated with construction works.

27. Management and Supervision Consultants (MSC) monitoring the field implementation of EMP and ensure that the EMP is implemented During the project construction period. Half yearly Environmental Safeguard Monitoring Report has to be prepared by the Consultant to be forwarded to PMU and ADB. It could be mentioned that IEE with EMP has been prepared according to ECA'95 (Environmental Conservation Act) & ECR'97 (Environmental Conservation Rules) and it is mandatory to follow the rules ordered by GoB and ADB guidelines. To follow the rules, contractors have to collect No Objection Certificates (NOC) from local authorities (*i.e.* DoE, DESA, DESCO, City Corporations and Housing Society etc.) before starting the works of the sub-projects.

28. According to the environmental guidelines of ADB the project falls under **Category B** and hence an IEE is sufficient to meet the environmental requirements. An IEE report was prepared by the consultant engaged by the ADB during appraisal. However, during the detailed design stage an updated Environmental Management Plan (EMP) was jointly prepared by Environmental unit of MSC and Environmental representative of contractor in reference to ADB guidelines. The project is also in conformity with the latest Guideline of ADB *i.e.* Safeguard Policy Statement 2009.

| Package No. | Statutory Environmental Requirements <sup>4</sup> | Status of Compliance<br><i>(Specify if obtained, submitted and awaiting approval, application not yet submitted)</i> | Validity Date(s)<br><i>(if already obtained)</i> | Action Required                   | Specific Conditions that will require environmental monitoring <sup>5</sup> |
|-------------|---|--|--|-----------------------------------|---|
| ICB-02.7    | DOE clearance                                     | Obtained and submitted   | More than completion dt                          | Spraying water for Dust emission. |   |
|             |   |  |  | Temporary Water supply            |   |
|             |   |  |  |                                   |   |

### V. Compliance status with environmental loan covenants

| Schedule No. and Item<br><i>(see Project Loan Agreement and list provisions relevant to environmental safeguards, core labor standards and occupational health and safety)</i> | Covenant | Status of Compliance | Action Required |
|--|----------|----------------------|-----------------|
|  |          |                      |                 |

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|    |                          |                             |  |
|----|--------------------------|-----------------------------|--|
| 4. | Ambient Air quality test | Done for each of the 16 DMA |  |
|    | Noise level test         | Done for each of the 16 DMA |  |
|    | Water quality test       | Done for the completed DMAs |  |

**VI. Compliance status with the environmental management plan (refer to EMP tables in approved IEE/s)**

- Road cutting plan for the DMAs are being prepared segment wise considering the traffic load of the respective areas and rules of the DMP.
- All measures are being taken to excavate the trench to a minimum dimension.
- Taking all precaution to avoid any accident to the underground and over head utilities
- All unfinished trench being covered by the steel sheet to facilitate the traffic movement at the main roads
- All open excavation , loose slopes, pits are encircled by using road blocker, security tape and cones.
- Nearby drain pits to be used for draining out the pits and trench water caused by rainfall / seepage.
- Removal of excavated materials from the roads simultaneously with the excavation . Some times the removal process becomes time consuming in case of the narrow by lane and in therainy days .
- Hauling vehicles remain standby during working hour for emergency service at each of the working site.
- Notify the users about the work programs, water supply disruption and ensure temporary water service to the respective areas, specially in case of pipe bursting .
- Using modern vehicles and equipment to keep the noise level within the limit of 70dB
- Keeping the Dust within limit by removing the excavated earth, spraying water twice a day even, bringing the backfill /working sand just few hours before of the use.
- Screening high reflective materials if any
- Local storage facilities are well secured and planned for the different item of plants and materials.
- Running water, Electricity are available at temporary labor shed at the DMA office. Sanitary facilities at site and sore are ensured in order to protect the health and safety of the labor and work force as well. Water purifier nearer to the working place for drinking water at site.
- All worker are well trained and duly supervised during working hours
- Maintain record and make report covering health and safety incident.
- All the safety items has been adequately provided to the each working groups namely: Hard boot, Gum boot, Hard hat, helmet, gloves , goggles, ear plug, reflective working apron and other personal safety items including COVID -19 PPEs, sanitizer, Mask, Hand washing basins and first aid boxes with emergency medicines. The medical officer of head office middle Badda will prescribe and advice in case of any pandemic symptoms..
- All staffs are informed about historical /Archaeological value of the old stones
- All the waste generated from the site being collected from the work site and send ti central store then to factories the recyclable items. Other solid waste send to DSCC or DNCC solid waste depot. Solid waste management of the city are the responsibility of the City corporation.
- At the end of work on the road surface the road are being restoration at a suitable level to ease the traffic movement.
- All RP has been approved and all the compensation has been distributed to the APs.
- There is a, 5 member Grievance Redress Committee headed by the Executive Engineer PMU to settle the grievance issue.

**29. Overall Compliance with SEMP/CEMP**

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| <b>Package No.</b> | <b>Status of SEMP/CEMP Implementation</b><br><i>(Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)</i> | <b>Action Proposed and Additional Measures Required</b> |
|--------------------|---|---|
| ICB – 02.7         | Satisfactory  | Ambient Air quality and Noise monitoring                |
|                    |   |   |
|                    |   |   |

**Trainings, Workshops and Seminars Conducted**

| <b>Date</b> | <b>Topic</b> | <b>Conducted by</b> | <b>No. of Participants (Total)</b> | <b>No. of Participants (Female)</b> | <b>Remarks</b> |
|-------------|--------------|---------------------|------------------------------------|-------------------------------------|----------------|
|             |              |                     |                                    |                                     |                |
|             |              |                     |                                    |                                     |                |
|             |              |                     |                                    |                                     |                |

**30.**

| <b>Impacts</b><br><i>(List from SEMP/CEMP)</i> | <b>Mitigation Measures</b><br><i>(List from SEMP/CEMP)</i> | <b>Parameters Monitored</b><br><i>(As identified in the SEMP/CEMP)</i> | <b>Method of Monitoring</b><br><i>(Visual, Actual Sampling, etc)</i> | <b>Location of Monitoring</b><br><i>(Provide GPS Coordinates)<sup>6</sup></i> | <b>Date of Monitoring Conducted</b> | <b>Person Who Conducted the Monitoring</b> |
|--|--|--|--|---|-------------------------------------|--|
| <b>Design Phase</b>                            |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
| <b>Pre-Construction Phase</b>                  |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
| <b>Construction Phase</b>                      |  |  |  |   |                                     |  |
|  |  |  | Visual   |   |                                     | Md, Shakil Kawser                          |
|  |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
| <b>Operational Phase</b>                       |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |
|  |  |  |  |   |                                     |  |

Inspection report of the EHS inspector are enclosed in appendix-5

**VII. Monitoring of environmental IMPACTS on PROJECT SURROUNDINGS**

31.

| Package No. | Status of Pre-Work Conditions<br><i>(Recorded / Not Recorded)</i> | Baseline Environmental Conditions (air, water, noise) Documented<br><i>(Yes / No)</i> | Action Proposed and Additional Measures Required |
|-------------|---|---|--|
| 2.7         | Not recorded  | No  | Complied according to the IEE                    |
|             |   |   |  |
|             |   |   |  |

Other than noise level of 70 dB during working time water and air are found OK with the local standard in the previous reports.

32.

**Air Quality Monitoring Results**

| Site No. | Date of Testing | Site Location<br><i>(Provide GPS Coordinates)<sup>7</sup></i> | Parameters <i>(as required by statutory clearances or as mentioned in the IEE)</i> |              |              | Remarks |
|----------|-----------------|---|--|--------------|--------------|---------|
|          |                 |   | PM10<br>µg/m3  | SO2<br>µg/m3 | NO2<br>µg/m3 |         |
|          |                 |   |  |              |              |         |
|          |                 |   |  |              |              |         |
|          |                 |   |  |              |              |         |

ICB-2.7 completed ambient air quality monitoring and Noise level test phase wise in all the 16 DMAs.

**33. Water Quality Monitoring Results**

| Site No. | Date of Sampling | Site Location | Parameters <i>(as required by statutory clearances or as mentioned in the IEE)</i> |                       |             |             |            |            | Remarks |
|----------|------------------|---------------|--|-----------------------|-------------|-------------|------------|------------|---------|
|          |                  |               | pH   | Conductivity<br>µS/cm | BOD<br>mg/L | TSS<br>mg/L | TN<br>mg/L | TP<br>mg/L |         |
|          |                  |               |  |                       |             |             |            |            |         |

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|   |            |                         |      |     |  |  |  |  |  |   |
|---|------------|-------------------------|------|-----|--|--|--|--|--|---|
| 1 | 02.03.2020 | Nandipara<br>PTW,DMA605 | 6.80 | 306 |  |  |  |  |  | Turbidity(NTU): 6.71, TDS 163,<br>Conductivity: 306, Chloride:<br>10mg/ltr, Total hardness: 122 |
|   |            |                         |      |     |  |  |  |  |  |   |
|   |            |                         |      |     |  |  |  |  |  |   |

The water quality monitoring done for the handed over 10 DMAs during their commissioning period and the results has been entered into the respective reports accordingly. Commissioning of DMA 605 done 613 is running other 4 monitoring will be conducted as soon as the commissioning started at DMA 611, 614, 615 and 616.

**34. Noise Quality Monitoring Results**

| Site No. | Date of Testing | Site Location | LA <sub>eq</sub> (dBA) (as required by statutory clearances or as mentioned in the IEE) |            | Remarks |
|----------|-----------------|---------------|---|------------|---------|
|          |                 |               | Day Time  | Night Time |         |
| 1.       |                 |               |   |            |         |
| 2        |                 |               |   |            |         |
| 3        |                 |               |   |            |         |

ICB-2.7 completed ambient air quality monitoring and Noise level test phase wise in all the 16 DMAs by the Environmental Testing Organization. There is a practice of routine for monitoring the noise level at the running DMAs

**VIII. INFORMATION DISCLOSURE AND CONSULTATIONS**

35. No consultation meeting took place during the reporting period.

| Date of Consultation | Location | Number of Participants (specify total, male and female) | Issues/Concerns Raised | Response to issues/concerns |
|----------------------|----------|---|------------------------|-----------------------------|
|                      |          | NA  |                        |                             |
|                      |          |   |                        |                             |
|                      |          |   |                        |                             |

**IX. Grievance Redress Mechanism**

- 36.
- **Grievance Redress Mechanism.**
  - Five member Grievance Redress committee is there, Headed by the Executive Engineer of the DESWSP
  - Two GRC meeting held and compensation given to affected person by the JV on humanitarian ground showing due regards to GRC decision.
  - The respective Site Manager of RPL-FSL-CRFG JV , TL NGO SHAMAHAR, The gender specialist with DSCC representative handed over the compensation amount Tk 84,015/- to Mst Asgori Begum

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of 27/2KA Topkhna road on 28.11.19 and 24,650/- distributed to the vendors of the working area on 30.12.19 by TL NGO , Gender Specialist PMU and other member of GRC

- Last follow up half yearly visit to Asgori begum was on 07.05.2020 and found Ok at home.

- **Complaints Received during the Reporting Period.**

No complain received during the reporting period.

## X. SUMMARY OF KEY ISSUES/CONCERNS Identified during the reporting period AND REMEDIAL ACTIONS

37.

- Pandemic COVID - 19 situation: Physical project activities stopped other than very emergency for two months due to Govt. Holidays and Lockdown. Vehicles and equipment kept at the Central store. On withdrawal of the lockdown on 31<sup>st</sup> May 2020, the work restarted on 1 June 2020.
- Provided PPE, Sanitizer, hand washing facilities at working site, Disinfect the machineries and vehicles, arranged labor accommodation maintaining social distance and other necessary measures to work with the pandemic situation. The Representatives from MSC visited the site and remain present during pre-commissioning. Weekly assembly and training conducted for the working people to work within this difficult time while most of the city dwellers are not getting out of their homes to stay safe from COVID. Motivational discussion arranged with the house owner and the local elites, to make them understand the urgent completion of the project before monsoon.

## XI. STATUS OF CORRECTIVE ACTIONS FROM PREVIOUS SEMR(S)

### 38. Corrective Action Plan Status

| Issues/Concerns  | Corrective Action  | Status   | Remarks                              |
|--|--------------------|--|--------------------------------------|
| Mst Azgari Begum's (85). (left Femur neck broken. Femur head replaced) | Treatment complete | Now Ok at home Staying with the Son, Daughters and grand children. | She is good health and pleasant mood |
|  |                    |  |                                      |
|  |                    |  |                                      |

### 39. Air Quality Monitoring Results

| Site No. | Date of Testing | Site Location | Parameters (as required by statutory clearances or as mentioned in the IEE) | Remarks |
|----------|-----------------|---------------|---|---------|
|----------|-----------------|---------------|---|---------|

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|  |  | (Provide GPS Coordinates) <sup>8</sup> | SPM<br>Gravimetric | PM10<br>µg/m3 | SO2<br>µg/m3 | NO2<br>µg/m3 |  |
|--|--|--|--------------------|---------------|--------------|--------------|--|
|  |  |  |                    |               |              |              |  |
|  |  |  |                    |               |              |              |  |
|  |  |  |                    |               |              |              |  |

**40. Water Quality Monitoring Results**

| Site No. | Site location         | Date of Sampling | Parameters (as required by statutory clearances or as mentioned in the IEE) |                       |                  |             |                     |                           | Remarks |
|----------|-----------------------|------------------|---|-----------------------|------------------|-------------|---------------------|---------------------------|---------|
|          |                       |                  | pH  | Conductivity<br>µS/cm | Chloride<br>mg/L | TDS<br>mg/L | Iron,<br>Fe<br>mg/L | Total<br>Hardness<br>mg/L |         |
| 1        | East Nandipara DMA605 | 03.03.20         | 6.8   | 260                   | 28               | 138         |                     | 98                        |         |
|          |                       |                  |   |                       |                  |             |                     |                           |         |

**41. Noise Quality Monitoring Results**

| Site No. | Date of Testing | Site Location                | Equipment name | Distance from Equipment (Meter) (Sound level in dB) |       | Remarks    |
|----------|-----------------|------------------------------|----------------|---|-------|------------|
|          |                 |                              |                | 20  | 15    |            |
| DMA 614  | 6 June 2020     | Officer's club Bailyroad     | Generator      | 68.80   | 69.90 | Acceptable |
| DMA 616  | 6 June 2020     | Bangabandhu National stadium | Generator      | 69.1  | 70.5  | Acceptable |
| DMA 616  | 8 Jan 2020      | Rajarbagh Police line, Dhaka | Generator      | 68.8  | 69.5  | Acceptable |

To check the permeable limit frequent noise level monitoring done to the working sites on working days.

**XII. APPENDIXES**

- Photos (Appendix-1)
- Incident report (Appendix-2)

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- Incident report (Appendix-3)
- Water Spray (Appendix-4)
- Environmental site inspection report (Appendix-5)

# Appendix-1

Photographs of the project work:



The Assembly of the 613 commissioning Team at Shahjahanpur DMA 613 on 07.06.2020



Reading entry running at DMA 613 on 08.06.2020, personnel compliance with COVID -19 PPE



Commissioning reading entry going on at Shahjahanpur DMA 613 of ICB:2.10 on 09.06.2020



Steel sheet are in use to facilitate traffic movement at Shahjahanpur rd crossing DMA 615 on ,13.06.20



Rd Filling & compaction: Shahjahanpur DMA615, SARE MSC at site on 13.06.20



Earth removing at Minister's Apartment Minto road DMA 614 on 23.06.2020



CM 2.7 visiting Pre commissioning of DMA615 at Rajarbagh pump on 25.06.20, COVID -19 situation .

Road breaking for interconnection at DMA64



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Materials, Equipment and vehicles kept safe at Demara central store during COVID -19 lockdown Apr-May,2020.



200 mm dia HDD running at DIT ave. DMA 615, Neapali team are in visit



Women laborers are in trench Back filling and Removing Excavated Earth Police line Rajarbagh DMA 615



Water spraying to reduce the dust at the work site of DIT road at DMA 616

## Appendix-2

| Incident Report for Human |                          |                          |                                 |                    |                         |                     |                                |                   |
|---------------------------|--------------------------|--------------------------|---------------------------------|--------------------|-------------------------|---------------------|--------------------------------|-------------------|
| SI No:                    | Date & time of Incidnet: | Name of Affected Person: | Designation of Affected Person: | Injury Sustained : | Treatment Administered: | DMA:                | Description on Incident:       | Remarks:          |
| 1                         | 6/1/2020(4.50AM)         | Md.Khairul islam         | apprentice                      | Slightly injury    | First Aid               | 615                 | Small Injury on his Right hand | Time losses 2hrs  |
| 2                         | 10/1/2020 (3.20AM)       | Md. Sekul Mia            | apprentice                      | Slightly injury    | First Aid               | Abdul goni road 616 | Small Injury on his Right hand | Time losses 1 hrs |
| 3                         | 3/2/2020(3.50AM)         | Mozammel Hossen          | apprentice                      | Slightly injury    | First Aid               | Arambag 615         | Small Injury on his left hand  | Time losses 1 hrs |
| 4                         | 15/02/2020(2.30 AM)      | Sagor markin             | apprentice                      | Slightly injury    | First Aid               | Arambag 615         | Small Injury on his Right hand | Time losses 1 hrs |

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|    |                     |                      |                |                    |           |                                   |  |                         |
|----|---------------------|----------------------|----------------|--------------------|-----------|-----------------------------------|--|-------------------------|
| 5  | 20/2/2020(5.00 AM)  | Md. Babu Mia         | apprenti<br>ce | Slightly<br>injury | First Aid | Zero point<br>at DMA-<br>616      | Small Injury on his left leg             | Time losses<br>half day |
| 6  | 12/3/2020(4.50 AM)  | Shohel               | apprenti<br>ce | Slightly<br>injury | First Aid | Arambag<br>615                    | Small Injury on his Right<br>hand        | Time losses 1<br>hrs    |
| 7  | 15/03/2020(2.30 AM) | Almas                | apprenti<br>ce | Slightly<br>injury | First Aid | Arambag<br>615                    | Small Injury on his Right<br>hand        | Time losses 1<br>hrs    |
| 8  | 20/3/2020(5.00 AM)  | Mukul mina           | apprenti<br>ce | Slightly<br>injury | First Aid | Stadium<br>road at<br>616         | Small Injury on his left leg             | Time losses<br>2.3 hrs  |
| 9  | 19/06/2020(2.30 PM) | Md. Ismail<br>Hossen | apprenti<br>ce | Slightly<br>injury | First Aid | Minist<br>apartment<br>614        | Small Injury on his right leg            | Time losses<br>half day |
| 10 | 22/06/2020(4.50 PM) | Momin<br>Sangma      | apprenti<br>ce | Slightly<br>injury | First Aid | Rajarbagh<br>3 no gate<br>DMA-615 | Small Injury on his Right<br>hand finger | Time losses 1<br>hrs    |
| 11 | 27/6/2020(5.00 PM)  | Md. Mamun<br>Mia     | apprenti<br>ce | Slightly<br>injury | First Aid | Stadium<br>road : 616             | Small Injury on his left leg             | Time losses 1<br>hrs    |

## Appendix- 3

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

| Incident Report for Utility |                         |  |                    |                             |                              |         |
|-----------------------------|-------------------------|--|--------------------|-----------------------------|------------------------------|---------|
| Sl No:                      | Date & time of accident | Location   | Nature of Accident | Description of Accident     | Repair Completion date &time | Remarks |
| 1                           | 6/1/2020(3.40AM)        | Fulbaria Road infront of nagarbhaban DMA-616             | 300 pair TNT line  | HDD Pulling time            | 8/1/2020(8.00PM)             |         |
| 2                           | 11/1/2020(4.30AM)       | at DMA-616   | 300 pair TNT line  | During earth cutting        | 12/1/2020(5.00PM)            |         |
| 3                           | 12/1/2020(3.35AM)       | House no-100 arambagh DMA-615                            | 1" Gas line        | HDD Pulling time            | 13/1/2020(12.00PM)           |         |
| 4                           | 6/2/2020(4.30AM)        | Gulistan at DMA-616                                      | BTCL Cable         | HDD Reaming time            | 15/2/2020(5.30PM)            |         |
| 5                           | 6/2/2020(3.00AM)        | Nagarbhaban road DMA-616                                 | Gas line           | HDD work time               | 8/2/2020 (5.30PM)            |         |
| 6                           | 16/2/2020(2.10AM)       | Arambagh at DMA-615                                      | 1000 KV            | Interconnection pit cutting | 17/2/2020(3.00PM)            |         |
| 7                           | 6/2/2020 (3.00AM)       | Near commisioner office opposite of paltan thana DMA-615 | 1" dia Gas line    | Interconnection pit cutting | 6/2/2020(9.30AM)             |         |
| 8                           | 8/2/2020(2.30AM)        | 187, arambagh at DMA-615                                 | 1" dia Gas line    | HDD puling time             | 8/2/2020(3.00PM)             |         |
| 9                           | 10/02/2020(3.00AM)      | 129, Arambagh at DMA-615                                 | 1" dia Gas line    | HDD work time               | 10/2/2020(12.00PM)           |         |
| 10                          | 13/2/2020(4.30AM)       | 78/2/2020 Arambagh mogar goli at DMA-615                 | 1" dia Gas line    | HDD work time               | 13/2/2020(9.30AM)            |         |
| 11                          | 2/6/2020(3.45AM)        | Kakaril mor near islami bank hospital DMA-615            | Gas line           | OT work time                | 4/6/2020 (1.30PM)            |         |
| 12                          | 14/6/2020(4.00AM)       | Nightangel mor Scout Bhaban DMA-615                      | BTCL Cable         | HDD Reaming time            | 15/6/2020(5.30PM)            |         |
|                             |                         |  |                    |                             |                              |         |

# Appendix- 4

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

**Water Spray Details Mont of January -2020**

| SI No: | Date:     | Time     | Block & Road No :                 | DMA No: | Qty:     | Remarks: |
|--------|-----------|----------|-----------------------------------|---------|----------|----------|
| 1      | 1-Jan-20  | 09.20 AM | High court road                   | DMA-616 | 8000 ltr |          |
| 2      |           |          | DU area road                      |         |          |          |
| 3      | 6-Jan-20  | 8.50 AM  | High court road                   | DMA-616 | 8000 ltr |          |
| 4      |           |          | DU area road                      |         |          |          |
| 5      | 7-Jan-20  | 9.50 AM  | High court road                   | DMA-616 | 8000 ltr |          |
| 6      |           |          | DU area road                      |         |          |          |
| 7      | 8-Jan-20  | 10.00 AM | High court road                   | DMA-616 | 8000 ltr |          |
| 8      |           |          | DU area road                      |         |          |          |
| 9      | 9-Jan-20  | 8.30 AM  | High court road                   | DMA-616 | 8000 ltr |          |
| 10     |           |          | DU area road                      |         |          |          |
| 11     | 11-Jan-20 | 9.20 AM  | High court road                   | DMA-616 | 8000 ltr |          |
| 12     |           |          | DU area road                      |         |          |          |
| 13     | 13-Jan-20 | 9.00 AM  | Engineering institute road        | DMA-616 | 8000 ltr |          |
| 14     |           |          | DU area road                      |         |          |          |
| 15     | 14-Jan-20 | 10.30AM  | High court road                   | DMA-616 | 8000 ltr |          |
| 16     |           |          | DU area road                      |         |          |          |
| 17     | 17-Jan-20 | 9.30AM   | Shobjibagan road                  | DMA-616 | 4000 ltr |          |
| 18     |           |          |                                   |         |          |          |
| 19     | 18-Jan-20 | 9.50AM   | Colleage road to nagarbhaban road | D       | 8000 ltr |          |
| 20     |           |          |                                   | MA-616  |          |          |
| 21     | 19-Jan-20 | 9.30AM   | Colleage road to nagarbhaban road | DMA-616 | 8000 ltr |          |
| 22     |           |          |                                   |         |          |          |
| 23     | 27-Jan-20 | 10.00AM  | Colleage road to nagarbhaban road | DMA-616 | 8000 ltr |          |
| 24     |           |          |                                   |         |          |          |
| 25     | 10-Jan-20 | 9.00 AM  | Rajarbag to paltan                | DMA-615 | 8000 ltr |          |
| 26     |           |          |                                   |         |          |          |
| 27     | 15-Jan-20 | 10.10 AM | Malibagh to Shantinagar           | DMA-615 | 8000 ltr |          |
| 28     |           |          |                                   |         |          |          |
| 29     | 28-Jan-20 | 9.00AM   | Rajarbag to paltan                | DMA-615 | 8000 ltr |          |
| 30     |           |          |                                   |         |          |          |
| 1      | 4-Feb-20  | 8.20 AM  | Abdul Goni Road                   | DMA-616 | 4000 ltr |          |
| 2      | 5-Feb-20  | 9.50 AM  | Paltan To Zero Point              | DMA-616 | 4000 ltr |          |
| 3      | 9-Feb-20  | 8.50 AM  | Paltan To Zero Point              | DMA-616 | 8000 ltr |          |
| 4      |           |          | Zero Point to Goalp sha mazar     |         |          |          |
| 5      | 10-Feb-20 | 10.00 AM | Paltan To Zero Point              | DMA-616 | 8000 ltr |          |
| 6      |           |          | Zero Point to Goalp sha mazar     |         |          |          |

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|    |           |          |                               |             |          |  |
|----|-----------|----------|-------------------------------|-------------|----------|--|
| 7  | 13-Feb-20 | 9.30 AM  | Paltan To Zero Point          | DMA-616     | 8000 ltr |  |
| 8  |           |          | Zero Point to Goalp sha mazar |             |          |  |
| 9  | 15-Feb-20 | 8.40AM   | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 10 |           |          | Abdul Goni Road               |             |          |  |
| 11 | 16-Feb-20 | 9.00 AM  | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 12 |           |          | Doinik bangla road            |             |          |  |
| 13 |           |          | Abdul Goni Road               |             |          |  |
| 14 | 17-Feb-20 | 9.30AM   | Minto road                    | DMA-616,614 | 8000 ltr |  |
| 15 |           |          | Abdul Goni Road               |             |          |  |
| 16 |           |          | Zero Point to Goalp sha mazar |             |          |  |
| 17 | 18-Feb-20 | 9.50AM   | Abdul Goni Road               | DMA-616     | 8000 ltr |  |
| 18 |           |          | Zero Point to Goalp sha mazar |             |          |  |
| 19 | 19-Feb-20 | 9.20AM   | Zero Point to Goalp sha mazar | DMA-616     | 4000 ltr |  |
| 20 |           |          |                               |             |          |  |
| 21 | 20-Feb-20 | 9.40AM   | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 22 |           |          | Doinik bangla to Bangabhaban  |             |          |  |
| 23 | 21-Feb-20 | 9.00AM   | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 24 |           |          | Doinik bangla to Bangabhaban  |             |          |  |
| 25 | 22-Feb-20 | 9.40 AM  | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 26 |           |          | Baitul Mokarram road          |             |          |  |
| 27 | 23-Feb-20 | 10.00 AM | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 28 |           |          | Baitul Mokarram road          |             |          |  |
| 29 | 24-Feb-20 | 10.00AM  | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 30 |           |          | Baitul Mokarram road          |             |          |  |
| 31 | 25-Feb-20 | 9.20AM   | Zero Point to Goalp sha mazar | DMA-616     | 8000 ltr |  |
| 32 |           |          | Banggo bhaban road            |             |          |  |
| 33 | 26-Feb-20 | 9.00AM   | GPO Road                      | DMA-616     | 8000 ltr |  |
| 34 |           |          | Baitul Mokarram road          |             |          |  |
| 35 | 27-Feb-20 | 10.00AM  | GPO Road                      | DMA-616     | 8000 ltr |  |
| 36 |           |          | Baitul Mokarram road          |             |          |  |
| 37 | 29-Feb-20 | 10.20AM  | GPO Road                      | DMA-616     | 4000 ltr |  |
| 38 | 21-Feb-20 | 9.00AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 39 | 22-Feb-20 | 8.50AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 40 | 24-Feb-20 | 9.20AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 41 | 27-Feb-20 | 8.20AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 42 | 28-Feb-20 | 8.40AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 43 | 29-Feb-20 | 9.00AM   | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 44 | 2-Mar-20  | 9.20AM   | Arambagh main road            | DMA-615     | 4000 ltr |  |
| 45 |           | 5.30PM   | Arambagh main road            | DMA-615     | 4000 ltr |  |
| 46 | 5-Mar-20  | 9.00 AM  | Rajarbagh police line         | DMA-615     | 4000 ltr |  |
| 47 | 10-Mar-20 | 10.30 AM | GPO Road                      | DMA-616     | 8000 ltr |  |
| 48 |           | 11.00 AM | Baitul Mokarram road          |             |          |  |

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|    |           |           |  |         |          |  |
|----|-----------|-----------|--|---------|----------|--|
| 49 | 15-Mar-20 | 5.00 PM   | GPO Road   | DMA-616 | 4000 ltr |  |
| 50 | 1-Apr-20  | 30-Apr-20 | Got. Holidays and lockdown due to Pandemic COVID-19                          |         |          |  |
| 51 | 1-Jun-20  | 30-Jun-20 | Meter shifting, I/C and H/C was the main work so no water spray was required |         |          |  |

# Appendix-5

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

| EHS inspection report  |     |                       |                         |  |          |                           |           |                     |                    |
|--|-----|-----------------------|-------------------------|--|----------|---------------------------|-----------|---------------------|--------------------|
| Environmental , Health and Social compliance Inspection report month of January,2020 |     |                       |                         |  |          |                           |           |                     |                    |
| Date   | DMA | Site                  | Work on going           | Compliance   |          |                           |           |                     |                    |
|  |     |                       |                         | Environmental  | In use   | Social & Health           | In use    | Personnel           | In use             |
| 1/8/2020   | 615 | Rajarbagh police line | HDD Pipe installation   | Removal of excavated materials removed by Female labor | On going |                           |           | Reflective dress    | Complied           |
| Day  |     |                       | HDD pit cutting         | Temporary water supply                                 | NA       | Steel sheet placing       | provided  | Helmet              | Complied           |
| sunny day  |     |                       |                         | Closing Pipe open ends in trench                       | N/A      | Road cone /Barricade      | Done      | Gumboot to operator | partially complied |
|  |     |                       |                         | Water spraying   | NA       | Security tape encircled   | provided  | Hand gloves         | partially complied |
|  |     |                       |                         |  |          | Long length trench passer | NA        | Goggles to Welder   | Complied           |
|  |     |                       |                         |  |          | Drinking water            | Available |                     |                    |
|  |     |                       |                         |  |          | Lighting arrangement      | N/A       |                     |                    |
| 1/8/2020   | 616 | Palashi               | Gate valve installation | Removal of excavated materials                         | On going |                           |           | Reflective dress    | Complied           |
| Day  |     |                       |                         | Temporary water supply                                 | NA       | Steel sheet placing       | provided  | Helmet              | partially use      |
| sunny day  |     |                       |                         | Closing Pipe open ends in trench                       | N/A      | Road cone /Barricade      | Done      | Gumboot to operator | partially complied |
|  |     |                       |                         | Water sparying   | NA       | Security tape encircled   | provided  | Hand gloves         | partially complied |
|  |     |                       |                         |  |          | Long length trech passer  | NA        | Goggles to Welder   | Complied           |

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

|  |  |  |  |  |  |                      |           |  |  |
|--|--|--|--|--|--|----------------------|-----------|--|--|
|  |  |  |  |  |  | Drinking water       | Available |  |  |
|  |  |  |  |  |  | Lighting arrangement | N/A       |  |  |
|  |  |  |  |  |  |                      |           |  |  |

**EHS inspection report**

**Environmental , Health and Social compliance Inspection report month of February,2020**

| Date      | DMA | Site            | Work on going           | Compliance   |                   |                          |           |                     |                    |
|-----------|-----|-----------------|-------------------------|--|-------------------|--------------------------|-----------|---------------------|--------------------|
|           |     |                 |                         | Environmental  | In use            | Social & Health          | In use    | Personnel           | In use             |
| 2/11/2020 | 615 | Aram bagh       | Interconnection         | Removal of excavated materials removed by Female labor | on going          |                          |           | Reflective dress    | yes                |
| sunny day |     |                 |                         | Temporary water supply                                 | NA                | Steel sheet placing      | provided  | Helmet              | Complied           |
|           |     |                 |                         | Closing Pipe open ends in trench                       | N/A               | Road cone /Barricade     | Done      | Gumboot to operator | partially complied |
|           |     |                 |                         | Water sparying   | NA                | Security tape encircled  | provided  | Hand gloves         | partially complied |
|           |     |                 |                         |  |                   | Long length trech passer | NA        | Goggles to Welder   | Complied           |
|           |     |                 |                         |  |                   | Drinking water           | Available |                     |                    |
|           |     |                 |                         |  |                   | Lighting arrangement     | N/A       |                     |                    |
| 2/11/2020 | 614 | Siddeswari area | Service connection work | Removal of excavated materials                         | partially removed |                          |           | Reflective dress    | Complied           |
| sunny day |     |                 |                         | Temporary water supply                                 | NA                | Steel sheet placing      | N/A       | Helmet              | partially complied |
|           |     |                 |                         | Closing Pipe open ends in trench                       | N/A               | Road cone /Barricade     | N/A       | Gumboot to operator | not complied       |
|           |     |                 |                         | Water sparying   | NA                | Security tape encircled  | N/A       | Hand gloves         | not complied       |
|           |     |                 |                         |  |                   | Long length trech passer | NA        | Goggles to Welder   | not complied       |
|           |     |                 |                         |  |                   | Drinking water           | Available |                     |                    |

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

|  |  |  |  |  |  |                      |     |  |  |
|--|--|--|--|--|--|----------------------|-----|--|--|
|  |  |  |  |  |  | Lighting arrangement | N/A |  |  |
|  |  |  |  |  |  |                      |     |  |  |

**EHS inspection report**

**Environmental , Health and Social compliance Inspection report month of March,2020**

| Compliance |     |                    |                    |                                  |          |                         |              |                     |                    |
|------------|-----|--------------------|--------------------|----------------------------------|----------|-------------------------|--------------|---------------------|--------------------|
| Date       | DMA | Site               | Work on going      | Environmental                    | In use   | Social & Health         | In use       | Personnel           | In use             |
| 3/3/2020   | 615 | Inside Chamelibagh | Pressure test work | back filling                     | Complied |                         |              | Reflective dress    | yes                |
| sunny day  |     |                    |                    | Pressure test water supply       | On going | Steel sheet placing     | provided     | Helmet              | Complied           |
|            |     |                    |                    | Closing Pipe open ends in trench | N/A      | Road cone /Barricade    | provided     | Gumboot to operator | partially complied |
|            |     |                    |                    | Water spraying                   | N/A      | Security tape encircled | Not Provided | Hand gloves         | not complied       |

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|           |     |            |                    |                                  |          |                           |           |                     |                    |
|-----------|-----|------------|--------------------|----------------------------------|----------|---------------------------|-----------|---------------------|--------------------|
|           |     |            |                    |                                  |          | Long length trench passer | N/A       | Goggles to Welder   | not complied       |
|           |     |            |                    |                                  |          | Drinking water            | Available |                     |                    |
|           |     |            |                    |                                  |          | Lighting arrangement      | N/A       |                     |                    |
| 3/3/2020  | 616 | DIT Avenue | Pressure test work | back filling                     | Complied |                           |           | Reflective dress    | Complied           |
| sunny day |     |            |                    | Pressure test water supply       | On going | Steel sheet placing       | Provided  | Helmet              | partially complied |
|           |     |            |                    | Closing Pipe open ends in trench | N/A      | Road cone /Barricade      | Provided  | Gumboot to operator | partially complied |
|           |     |            |                    | Water spraying                   | NA       | Security tape encircled   | N/A       | Hand gloves         | not complied       |
|           |     |            |                    |                                  |          | Long length trench passer | NA        | Goggles to Welder   | not complied       |
|           |     |            |                    |                                  |          | Drinking water            | Available |                     |                    |
|           |     |            |                    |                                  |          | Lighting arrangement      | N/A       |                     |                    |

**EHS inspection report**

**Environmental , Health and Social compliance Inspection report month of June,2020**

| Compliance |     |                    |                      |  |          |                           |          |                     |                    |
|------------|-----|--------------------|----------------------|--|----------|---------------------------|----------|---------------------|--------------------|
| Date       | DMA | Site               | Work on going        | Environmental  | In use   | Social & Health           | In use   | Personnel           | In use             |
| 6/6/2020   | 615 | Arambagh segment-4 | Interconnection work | Removal of excavated materials removed by Female labor | on going |                           |          | Reflective dress    | complied           |
| sunny day  |     |                    |                      | Temporary water supply                                 | N/A      | Steel sheet placing       | provided | Helmet              | partially complied |
|            |     |                    |                      | Closing Pipe open ends in trench                       | N/A      | Road cone /Barricade      | Done     | Gumboot to operator | partially complied |
|            |     |                    |                      | Water spraying   | N/A      | Security tape encircled   | provided | Hand gloves         | not complied       |
|            |     |                    |                      |  |          | Long length trench passer | NA       | Goggles to Welder   | not complied       |

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|           |     |                                   |                    |  |                   |                           |              |                     |              |
|-----------|-----|-----------------------------------|--------------------|--|-------------------|---------------------------|--------------|---------------------|--------------|
|           |     |                                   |                    |  |                   | Drinking water            | Available    |                     |              |
|           |     |                                   |                    |  |                   | Lighting arrangement      | N/A          |                     |              |
| 6/6/2020  | 614 | Officers club                     | service connection | Removal of excavated materials removed by Female labor | partially removed |                           |              | Reflective dress    | complied     |
| sunny day |     |                                   |                    | Temporary water supply                                 | n/a               | Steel sheet placing       | NA           | Helmet              | complied     |
|           |     |                                   |                    | Closing Pipe open ends in trench                       | n/a               | Road cone /Barricade      | Done         | Gumboot to operator | complied     |
|           |     |                                   |                    | Water spraying   | n/a               | Security tape encircled   | Yes          | Hand gloves         | complied     |
|           |     |                                   |                    |  |                   | Long length trench passer | NA           | Goggles to Welder   | not complied |
|           |     |                                   |                    |  |                   | Drinking water            | Available    |                     |              |
|           |     |                                   |                    |  |                   | Lighting arrangement      | n/a          |                     |              |
| 6/6/2020  | 616 | bangobondhu national stadium road | HDD work           | Removal of excavated materials removed by Female labor | on going          |                           |              | Reflective dress    | complied     |
| Day       |     |                                   |                    | Temporary water supply                                 | n/a               | Steel sheet placing       | Not provided | Helmet              | complied     |
| sunny day |     |                                   |                    | Closing Pipe open ends in trench                       | Yes               | Road cone /Barricade      | Done         | Gumboot to operator | complied     |
|           |     |                                   |                    | Water spraying   | n/a               | Security tape encircled   | provided     | Hand gloves         | complied     |
|           |     |                                   |                    |  |                   | Long length trench passer | NA           | Goggles to Welder   | not complied |
|           |     |                                   |                    |  |                   | Drinking water            | Available    |                     |              |
|           |     |                                   |                    |  |                   | Lighting arrangement      | n/a          |                     |              |
|           |     |                                   |                    |  |                   |                           |              |                     |              |

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|           |     |                                   |                            |  |                   |                           |           |                     |                    |
|-----------|-----|-----------------------------------|----------------------------|--|-------------------|---------------------------|-----------|---------------------|--------------------|
| 6/20/2020 | 615 | MODS zone-6 office                | HDD & Interconnection work | Removal of excavated materials removed by Female labor | partially removed |                           |           | Reflective dress    | complied           |
| Day       |     |                                   |                            | Temporary water supply                                 | N/A               | Steel sheet placing       | provided  | Helmet              | complied           |
| Cloudy    |     |                                   |                            | Closing Pipe open ends in trench                       | N/A               | Road cone /Barricade      | Done      | Gumboot to operator | partially complied |
|           |     |                                   |                            | Water spraying   | N/A               | Security tape encircled   | provided  | Hand gloves         | complied           |
|           |     |                                   |                            |  |                   | Long length trench passer | NA        | Goggles to Welder   | not complied       |
|           |     |                                   |                            |  |                   | Drinking water            | Available |                     |                    |
|           |     |                                   |                            |  |                   | Lighting arrangement      | N/A       |                     |                    |
| 6/20/2020 | 614 | Minister apartment                | HDD & Interconnection work | Removal of excavated materials removed by Female labor | partially removed |                           |           | Reflective dress    | complied           |
| Day       |     |                                   |                            | Temporary water supply                                 | N/A               | Steel sheet placing       | provided  | Helmet              | complied           |
| Cloudy    |     |                                   |                            | Closing Pipe open ends in trench                       | N/A               | Road cone /Barricade      | Done      | Gumboot to operator | partially complied |
|           |     |                                   |                            | Water spraying   | N/A               | Security tape encircled   | provided  | Hand gloves         | complied           |
|           |     |                                   |                            |  |                   | Long length trench passer | NA        | Goggles to Welder   | not complied       |
|           |     |                                   |                            |  |                   | Drinking water            | Available |                     |                    |
|           |     |                                   |                            |  |                   | Lighting arrangement      | N/A       |                     |                    |
| 6/20/2020 | 616 | Bangobandhu National Stadium Road | Interconnection work       | Removal of excavated materials removed by Female labor | on going          |                           |           | Reflective dress    | complied           |
| Day       |     |                                   |                            | Temporary water supply                                 | N/A               | Steel sheet placing       | provided  | Helmet              | complied           |
| Cloudy    |     |                                   |                            | Closing Pipe open ends in trench                       | N/A               | Road cone /Barricade      | Done      | Gumboot to operator | partially complied |



**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

**Package NCB 4.1**

**Table 1: List of Deep Tube Wells (DTWs) to be Constructed/ Replaced & Work Status on June 30, 2020**

| Sl. No. | Deep Tube Well Name & Location   | Contractor  | PTW No./ DMA No. | Lot Number | New/ Replacement | Date of Mobilization | Production Capacity, Pump Head | Work Status   | EMP Received/ Submitted at PIMU, DESWSP, DWASA | Remarks (if any)   |
|---------|--|---|------------------|------------|------------------|----------------------|--------------------------------|---|--|--------------------|
| 1       | 2  | 3   | 4                | 5          | 6                | 7                    | 8                              | 9   | 10   | 11                 |
| 1.      | Gulbag-1 Water Pump, Gulbag, Malibag, Dhaka.                             | RFL Plastics Ltd.   | DTW-639/ DMA-613 | 1          | Replacement      | 24-Dec-19            | 2000 L/M, 1.5 Qsec, 125 meter  | Commissioning date: 15.02.2020  | Submitted                                      |                    |
| 2.      | Rajuk Quarter Water Pump, West Malibag, Malibag, Dhaka.                  | RFL Plastics Ltd.   | DTW-659/ DMA-611 | 1          | Replacement      | 24-Dec-19            | 2400 L/M, 1.5 Qsec, 110 meter  | Commissioning date: 28.05.2020  | No Site Specific EMP yet been submitted        |                    |
| 3.      | Maruf Market Water Pump, Malibag, Dhaka.                                 | Associated-the Milners JV (AEDL)  | DTW-669/ DMA-613 | 4          | Replacement      | 18-Feb-20            |                                | Design and Lowering works has been completed. Jetting work is ongoing | No Site Specific EMP yet been submitted        |                    |
| 4.      | Rampura Bangladesh Television Road (TV road) Water Pump, Rampura, Dhaka. | Purbachal-BTCL JV [(Purbachal Drillers Ltd. (PDL)]                      | DTW-627/ DMA-609 | 3          | Replacement      |                      | 2200 L/M, 1.5 Qsec, 110 meter  | Commissioning date: 14.06.2020  | Submitted                                      |                    |
| 5.      | Dhaka Medical College & Hospital Compound Water Pump, Dhaka.             | MAN-Sigma JV (MAN Enterprise)   | DTW-631/ DMA-616 | 2          | Replacement      | 24-Dec-19            | 2400 L/M, 1.5 Qsec, 110 meter  | Commissioning date: 03.03.2020  | Received                                       |                    |
| 6.      | Rajarbag-1 Water Pump, Rajarbag, Dhaka.                                  | Purbachal-BTCL JV. (BTCL)]  | DTW-645/ DMA-615 | 3          | Replacement      |                      |                                | Design and Lowering, Development and Testing are completed            | Received                                       | Commissioning soon |
| 7       | ArambagBalur Math Water Pump, Arambag, Dhaka.                            | Associated-the Milners JV [(Associated Engineers & Drillers Ltd (AEDL)] | DTW-661/ DMA-615 | 4          | Replacement      | 24-Dec-19            | 2400 L/M, 1.5 Qsec, 110 meter  | Design and Lowering, Development and Testing are completed            | No Site Specific EMP yet been received         | Commissioning soon |

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

|     |   |   |                    |   |             |           |                                |  |   |                    |
|-----|---|---|--------------------|---|-------------|-----------|--------------------------------|--|---|--------------------|
| 8   | Khilgaon 3 No. Water Pump, Khilgaon, Dhaka.           | RFL Plastics Ltd.   | DTW-667/DMA-612    | 1 | Replacement | 24-Dec-19 | 2000 L/M, 1.5 Qsec, 125 meter  | Commissioning date: 13.03.2020                             | Submitted                               |                    |
| 9   | Khilgaon 7 No. Water Pump, Khilgaon, Dhaka.           | MAN-Sigma JV (Sigma and Associates)                                     | DTW-629/DMA-612    | 2 | Replacement | 24-Dec-19 | 2000 L/M, 1.00 Qsec, 110 meter | Commissioning date: 20.02.2020                             | No Site Specific EMP yet been received  |                    |
| 10. | Bonasree-5 Water Pump, Bonasree, Dhaka.               | Purbachal-BTCL JV. [(Purbachal Drillers Ltd.(PDL)]                      | DTW-691/DMA-601    | 3 | Replacement | 24-Dec-19 | 2000 L/M, 1.00 Qsec, 125 meter | Commissioning date: 19.02.2020                             | Submitted                               |                    |
| 11. | Goran-8 Water Pump, Goran, Dhaka.                     | MAN-Sigma JV (MAN Enterprise)   | DTW-678/DMA-606    | 2 | Replacement | 24-Dec-19 | 2000 L/M, 1.50 Qsec, 110 meter | Commissioning date: 04.03.2020                             | Submitted                               |                    |
| 12. | MeradiaBhuiyan Para 2 No. Water Pump, Meradia, Dhaka. | Associated-the Milners JV [(The Milners Tube-wells Ltd (MTWL)]          | DTW-687/DMA-603    | 4 | Replacement | 24-Dec-19 | 2000 L/M, 1.00 Qsec, 125 meter | Commissioning date: 20.02.2020                             | No Site Specific EMP yet been submitted |                    |
| 13. | Kakrail SOC Water Pump, Kakrail, Dhaka.               | MAN-Sigma JV (Sigma and Associates)                                     | DTW-643/DMA-614    | 2 | Replacement | 24-Dec-19 | 2200 L/M, 1.00 Qsec, 110 meter | Commissioning date: 05.07.2020                             | No Site Specific EMP yet been submitted |                    |
| 14. | Protik Housing (South Bonasree), Bonasree, Dhaka.     | RFL Plastics Ltd.   | DTW-DMA-607        | 1 | New         | 24-Dec-19 | 2000 L/M, 1.00 Qsec, 110 meter | Commissioning date: 21.02.2020                             | Submitted                               |                    |
| 15. | Bonasree K Block, South Bonasree, Dhaka.              | Associated-the Milners JV [(Associated Engineers & Drillers Ltd (AEDL)] | DTW-6.104, DMA-602 | 4 | New         | 24-Dec-19 | 2200 L/M, 1.00 Qsec, 110 meter | Design and Lowering, Development and Testing are completed | No Site Specific EMP yet been received  | Commissioning soon |
| 16. | Bonasree M Block, South Bonasree, Dhaka.              | Purbachal-BTCL JV. (BTCL)]  | DTW-675, DMA-602   | 3 | New         | 24-Dec-19 | 2000 L/M, 1.00 Qsec, 110 meter | Borehole has been rejected. Preparing for main drilling.   | No Site Specific EMP yet been submitted |                    |
| 17  | Goran 10 No. Watee Pump, Goran, Dhaka.                | MAN-Sigma JV (MAN Enterprise)   | DTW-663/DMA-606    | 2 | Replacement | 1-Mar-20  | 2300 L/M, 1.50 Qsec, 110 meter | Commissioning date: 11.06.2020                             | Submitted                               |                    |

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

|    |   |  |                 |   |             |           |                                |  |   |  |
|----|---|--|-----------------|---|-------------|-----------|--------------------------------|--|---|--|
| 18 | Mothertek Gov. Primary School Water Pump, Mothertek, Dhaka. | Purbachal-BTCL JV. [(Purbachal Drillers Ltd.(PDL)]             | DTW-681/DMA-606 | 3 | Replacement | 18-Feb-20 | 2300 L/M, 1.50 Qsec, 110 meter | Commissioning date: 29.05.2020   | No Site Specific EMP yet been submitted |  |
| 19 | Khilgaon 04 No. Water Pump, Dhaka.                          | RFL Plastics Ltd.  | DTW-625/DMA-612 | 1 | Replacement | 3-May-20  | 2200 L/M, 1.50 Qsec, 110 meter | Design and lowering works are completed. Jetting work is continuing.               | No Site Specific EMP yet been submitted |  |
| 20 | AGB Colony Water Pump, Palton, Dhaka.                       | RFL Plastics Ltd.  | DTW-654/DMA-615 | 1 | Replacement | 2-Jun-20  | 2500 L/M, 1.50 Qsec, 125 meter | Commissioning date: 02.04.2020   | Submitted                               |  |
| 21 | Fakirapul Water Pump, Palton, Dhaka.                        | Purbachal-BTCL JV. (BTCL)]                                     | DTW-/DMA-615    | 3 | Replacement |           |                                | 370 ft deep drilling work is continuing  | No Site Specific EMP yet been submitted |  |
| 22 | Segunbagicha Water Pump, Palton, Dhaka.                     | Associated-the Milners JV [(The Milners Tube-wells Ltd (MTWL)] | DTW-652/DMA-615 | 4 | Replacement | 18-Feb-20 |                                | Design and lowering works & gravel pack are completed. Jetting work is continuing. | No Site Specific EMP yet been submitted |  |
| 23 | Mouloveertek Water Pump, Mouloveertek, Dhaka.               | Purbachal-BTCL JV. [(Purbachal Drillers Ltd.(PDL)]             | DTW-/DMA-617    | 3 | Replacement | 18-Feb-20 |                                | Design and lowering works are completed. Jetting work is continuing.               | No Site Specific EMP yet been submitted |  |
| 24 | Rayerbag Water Pump, Reayerbag, Dhaka.                      | MAN-Sigma JV (MAN Enterprise)                                  | MODS Zone-7     | 2 | Replacement | 18-Feb-20 |                                | Design and lowering works are completed. Jetting work is continuing.               | Submitted                               |  |
| 25 | Salauddin School  | RFL Plastics Ltd.  | MODS Zone-7     | 1 | Replacement | 2-Jun-20  |                                | Design and lowering works are completed. Jetting work is continuing.               | Submitted                               |  |
| 26 | Dhaka College   | RFL Plastics Ltd.  | MODS Zone-3     | 1 | New         |           |                                | Preparation for main drilling  | Submitted                               |  |
| 27 | Mirpur 11/C,  | MAN-Sigma JV (MAN Enterprise)                                  | MODS Zone 10    | 2 | Replacement |           |                                | Drilling 550'-0"   | Submitted                               |  |

**10th SEMI-ANNUAL ENVIRONMENTAL SAFEGUARDS MONITORING REPORT, JAN-JUN'2020**

|    |   |  |                 |   |             |          |  |  |   |  |
|----|---|--|-----------------|---|-------------|----------|--|--|---|--|
| 28 | Matikata 02   | Associated-the Milners JV<br>[(Associated Engineers & Drillers Ltd (AEDL)] | MODS Zone 10    | 4 | Replacement |          |  | Drilling 100'-0"   | No Site Specific EMP yet been submitted |  |
| 29 | Solimullaha Road, Mohammadpur, Dhaka                                  | Purbachal-BTCL JV.<br>[(Purbachal Drillers Ltd.(PDL)]                      |                 | 3 | Replacement | 3-Jun-20 |  | Design and lowering works are completed. Jetting work is continuing. | Submitted                               |  |
| 30 | Dhaka Uddan   | MAN-Sigma JV (MAN Enterprise)  |                 | 2 |             |          |  | Site preparation stage for main drilling                             | Submitted                               |  |
| 31 | Bongobondhu National Stadium, 4 No. Gate Water Pump, Gulistan, Dhaka. | Associated-the Milners JV<br>[(Associated Engineers & Drillers Ltd (AEDL)] | DTW-651/DMA-616 | 4 | Replacement |          |  | Site preparation stage for main drilling                             | No Site Specific EMP yet been submitted |  |
| 32 | Bongobondhu National Stadium, 4 No. Gate Water Pump, Gulistan, Dhaka. | Purbachal-BTCL JV.<br>[(Purbachal Drillers Ltd.(PDL)]                      | DTW- / DMA-616  | 3 | Replacement |          |  | Site preparation stage for main drilling                             | Submitted                               |  |

**2<sup>nd</sup> Stage DTWs Locations:**

In 1<sup>st</sup> stage about 19 sites for DTWs were finalized and DDR was prepared accordingly. In 2<sup>nd</sup> stage additional 21 sites which will be subsequently taken up for installation works, if no impacts are identified, DDR will be prepared in lots of following rest 21 DTWs.

| S.L | Deep Tube Well Name & Address                              | Comments     | Co-ordinates |             |
|-----|--|--------------|--------------|-------------|
|     |  |              | Point X      | Point Y     |
| 1.  | Bonasree-3 No. Water Pump, Dhaka                           | DMA-601      | 90.42470735  | 23.76556092 |
| 2.  | Layan Hati Water, Trimohoni, Dhaka                         | DMA-605      | 90.4637576   | 23.75634    |
| 3.  | Goran 10 No. Watee Pump, Dhaka                             | DMA-606      | 90.43637094  | 23.74748694 |
| 4.  | Mothertek Gov. Primary School Water Pump, Mothertek, Dhaka | DMA-606      | 90.43947258  | 23.74239695 |
| 5.  | Mothertek Water Pump, Dhaka.                               | DMA-606      | 90.44157661  | 23.743996   |
| 6.  | Moghbazar Wireless Gate, Water Pump, Dhaka.                | DTW-611      | 90.4132072   | 23.7519267  |
| 7.  | Khilgaon 04 No. Water Pump, Dhaka                          | DMA-612      | 90.41890589  | 23.75180795 |
| 8.  | New Eskaton Water Pump, Ramna, Dhaka                       | DMA-614      | 90.3978946   | 23.74827174 |
| 9.  | Eskaton Garden Old Water Pump, Ramna, Dhaka                | DMA-614      | 90.39955607  | 23.74547699 |
| 10. | AGB Colony Water Pump, Palton, Dhaka                       | DMA-615      | 90.4209501   | 23.73326268 |
| 11. | Fakirapul Water Pump, Palton, Dhaka                        | DMA-615      | 90.41550792  | 23.73188108 |
| 12. | Segunbagicha Water Pump, Palton, Dhaka                     | DMA-615      | 90.4062223   | 23.73335112 |
| 13. | Mouloveertek Water Pump, Mouloveertek, Dhaka               | DMA-617      | 90.42156285  | 23.7578735  |
| 14. | Dhaka Uddan Water Pump, Mohammadpur, Dhaka                 | MODS Zone-3  | 90.3399301   | 23.76362437 |
| 15. | Salimullah Road Water Pump, Mohammadpur, Dhaka             | MODS Zone-3  | 90.3631831   | 23.76064833 |
| 16. | Dhaka College Water pump, Dhanmondi, Dhaka                 | MODS Zone-3  | 90.38120557  | 23.73581561 |
| 17. | Salauddin School Water Pump, Dhaka                         | MODS Zone-7  | 90.46752438  | 23.71073241 |
| 18. | Rayerbag Water Pump, Kadomtoli, Dhaka                      | MODS Zone-7  | 90.45765642  | 23.69766333 |
| 19. | Zoyersahara Water Pump, Kuril, Dhaka                       | MODS Zone-8  | 90.41632049  | 23.81585569 |
| 20. | Mirpur 11/C, (Avenue-5) Water Pump, Dhaka                  | MODS Zone-10 | 90.37501208  | 23.8151101  |
| 21. | Matikata 2No. Water Pump, Dhaka Cantonment, Dhaka          | MODS Zone-10 | 90.39236169  | 23.82153391 |

**Site Locations of 2<sup>nd</sup> Stage DTWs:**

Site Location Photographs of 2<sup>nd</sup> Stage DTWs:



Bonasree-3no. Water Pump

Layan Hati Water, Trimohoni, Proposed New



Goran 10 no. Water Pump

Mothertek Gov. primary School Water Pump



Mothertek Water Pump

Moghbazar Wireless Gate Water Pump



Eskaton Garden Water Pump

AGB Colony Water Pump



Fakirapool Water Pump

Segunbagicha Water Pump



Moulovirtek Water Pump



Dhaka Uddan Water Pump, Proposed new



Salimullah Road Water Pump



Dhaka College Water Pump



Salaudding School Water Pump



Rayerbag Water Pump



Zoyersahara Water Pump

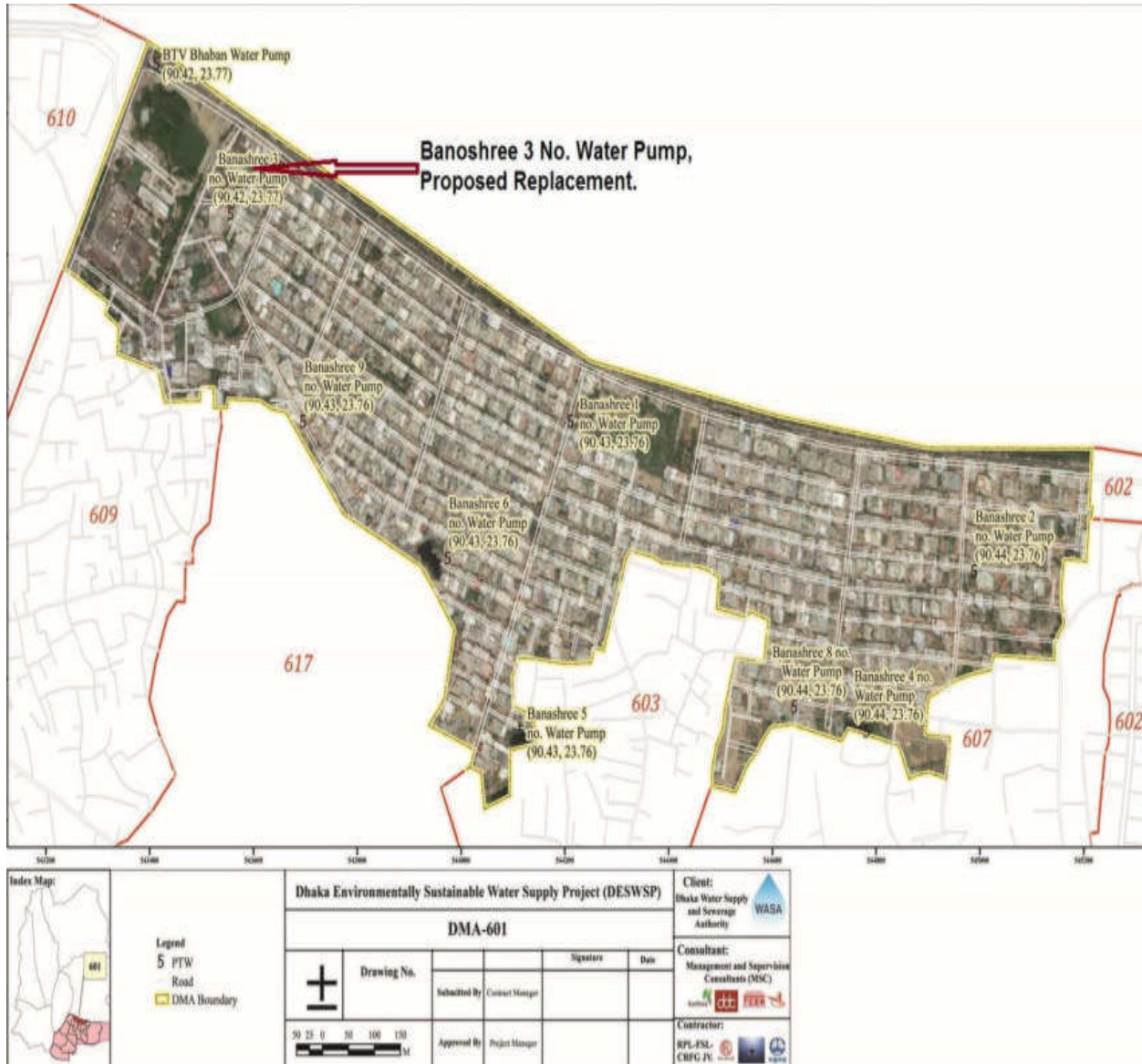


Mirpur 11-C (Ave:5) Water Pu Matikata

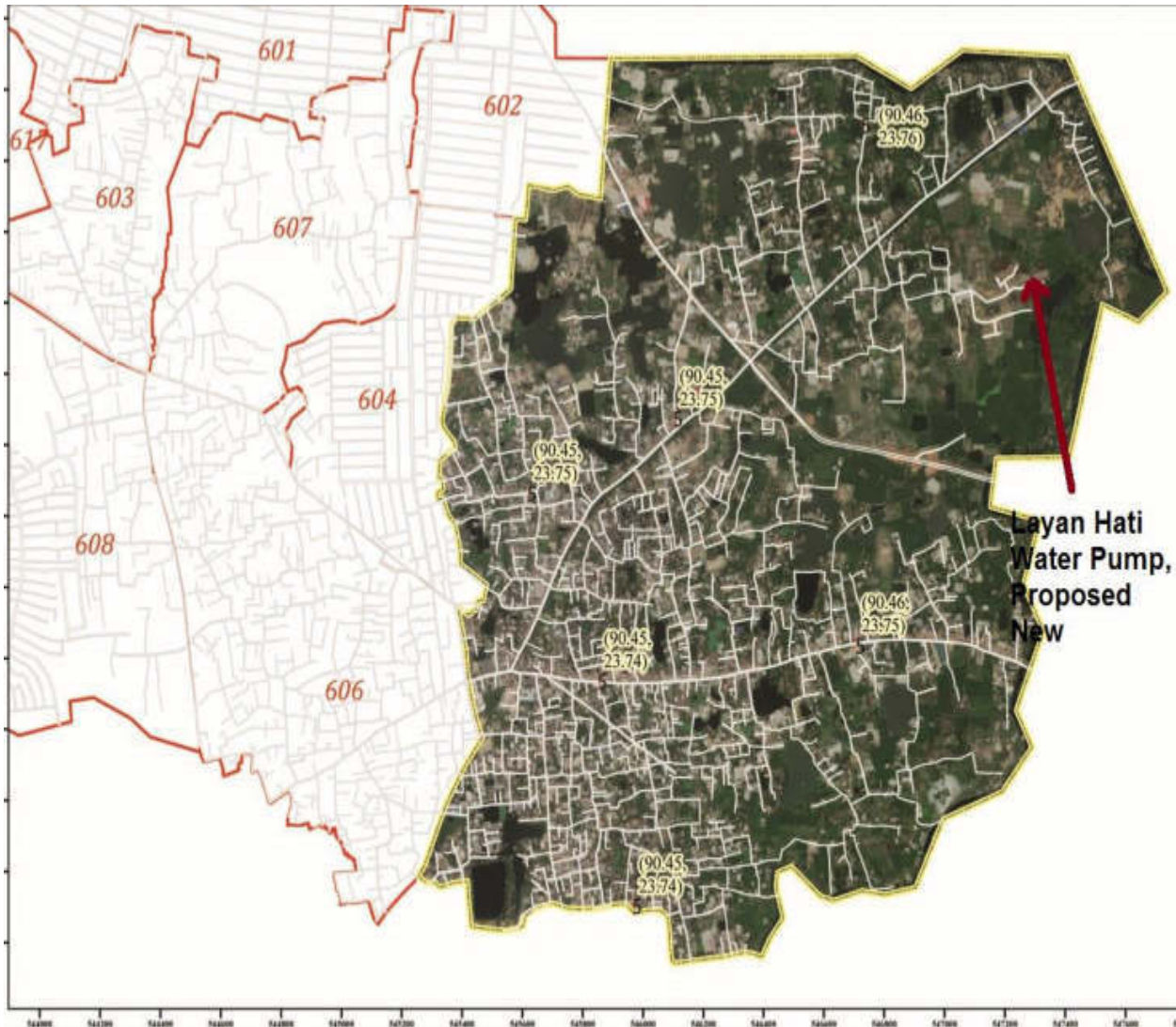


1: DTW/PTW location Map

Banasree-3 No. Water Pump Proposed Replacement.

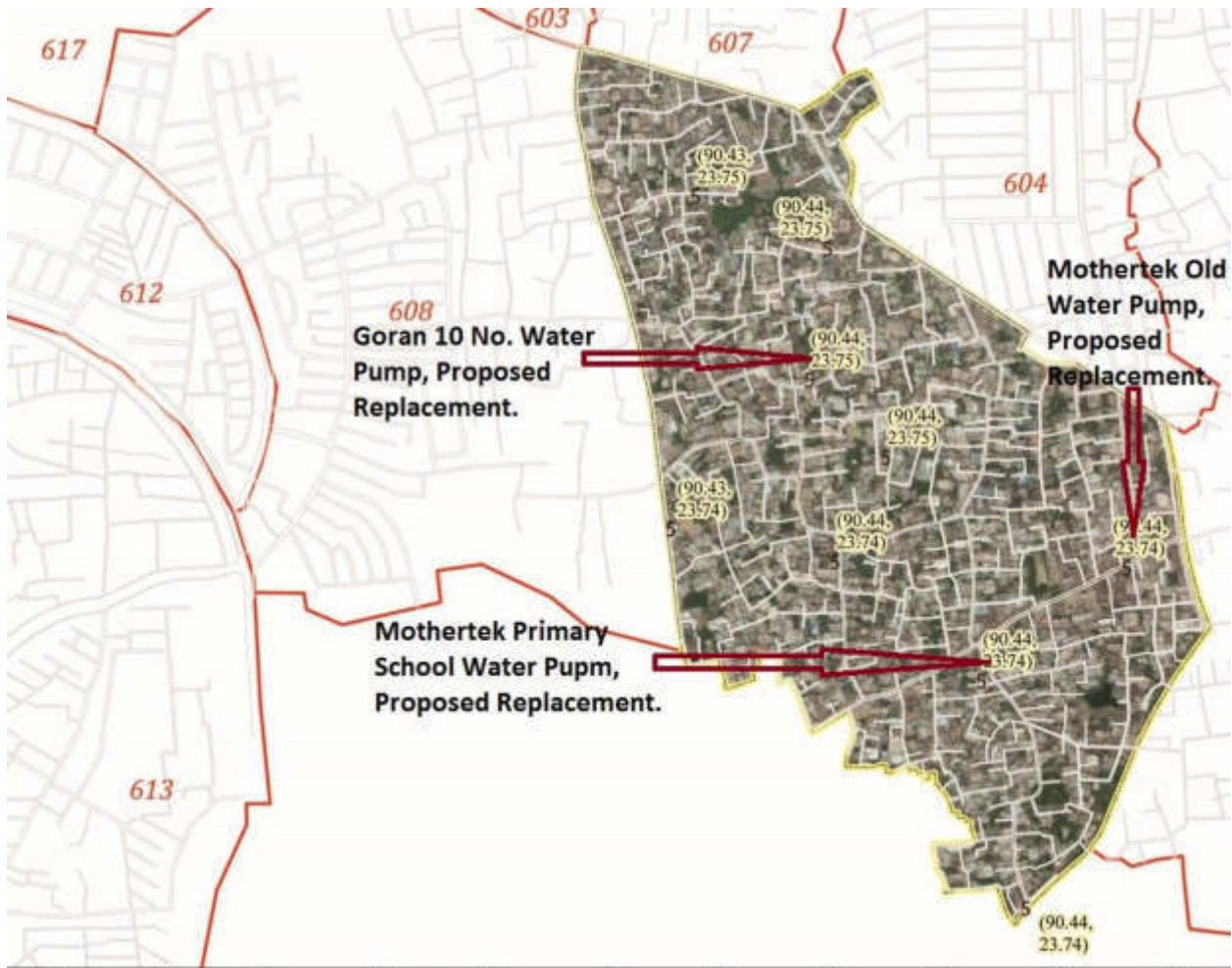


Layan Hati Water Pump, Proposed New



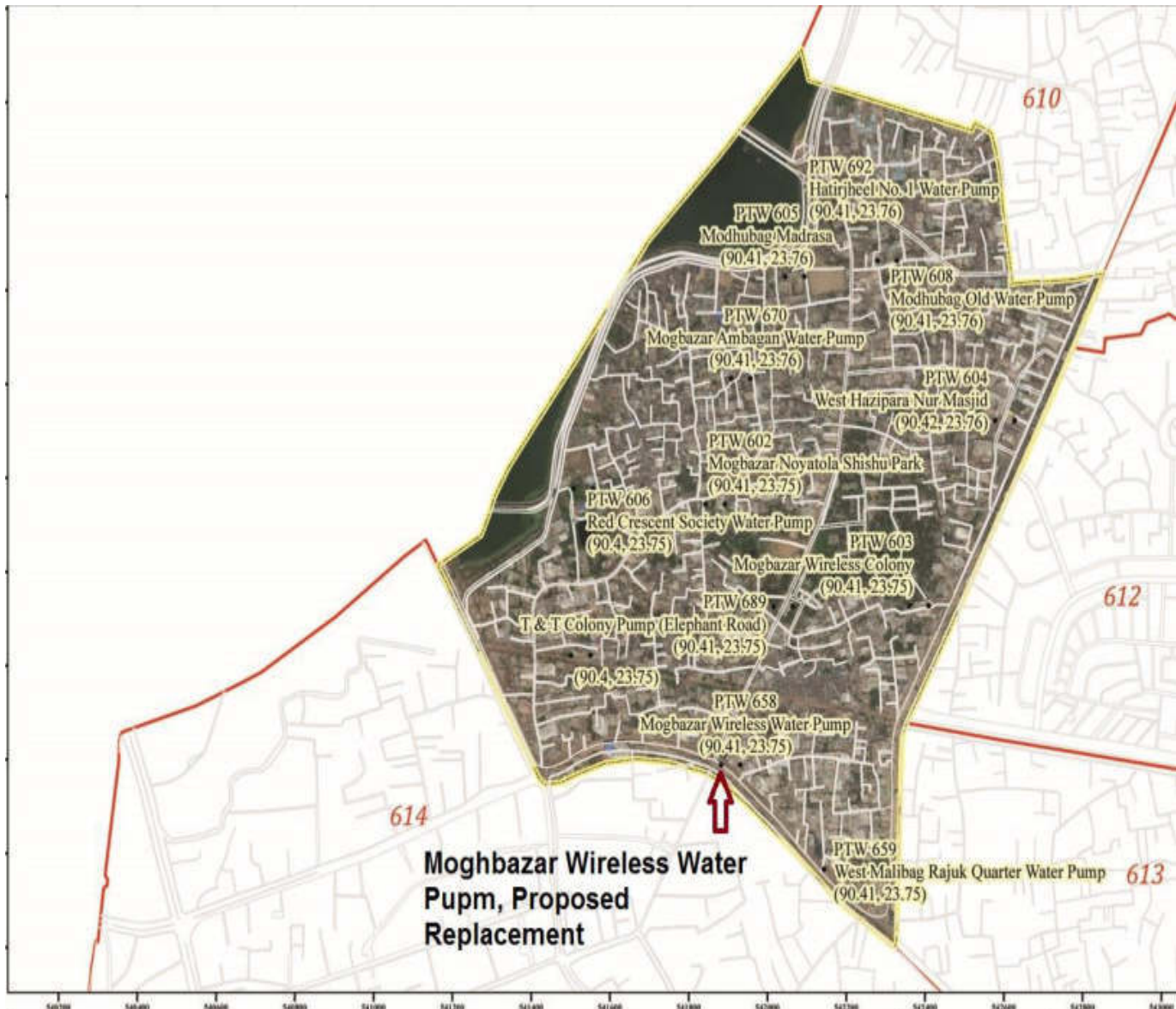
|                                   |  |   |  |   |  |  |  |
|-----------------------------------|--|---|--|---|--|--|--|
| <p>Index Map:</p>                 | <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>5 PTW</li> <li>Road</li> <li>DMA Boundary</li> </ul> | <p><b>Dhaka Environmentally Sustainable Water Supply Project (DESWSP)</b></p> <p><b>DMA-605</b></p> |  |   |  | <p><b>Client:</b><br/>Dhaka Water Supply and Sewerage Authority<br/></p> |  |
|                                   |  | <p></p> <p>Drawing No. _____</p>  |  | <p>Submitted By: _____<br/>Contract Manager</p>                                 |  | <p>Signature: _____</p>  |  |
| <p>100 50 0 100 200 300<br/>M</p> |  | <p>Approved By: _____<br/>Project Manager</p>   |  | <p><b>Consultant:</b><br/>Management and Supervision Consultants (MSC)<br/></p> |  | <p><b>Contractor:</b><br/>RPL-FSL-<br/>CRFG JV. </p>                     |  |

Goran 10 No. Water Pump, Mothertek Primary School Water Pump and Mothertek Old Water Pump Proposed Replacement.



|                       |  |  |                                |           |      |   |
|-----------------------|--|--|--------------------------------|-----------|------|---|
| <b>Index Map:</b><br> | <b>Legend</b><br>5 PTW<br>Road<br>DMA Boundary | <b>Dhaka Environmentally Sustainable Water Supply Project (DESWSP)</b> |                                |           |      | <b>Client:</b><br>Dhaka Water Supply and Sewerage Authority<br> |
|                       |  | <b>DMA-606</b>   |                                |           |      |   |
|                       |  | Drawing No.  | Submitted By: Contract Manager | Signature | Date | <b>Contractor:</b><br>RPL-FSL- CRFG JV.<br>                     |
| 50 25 0 50 100 150 M  |  | Approved By: Project Manager   |                                |           |      |   |

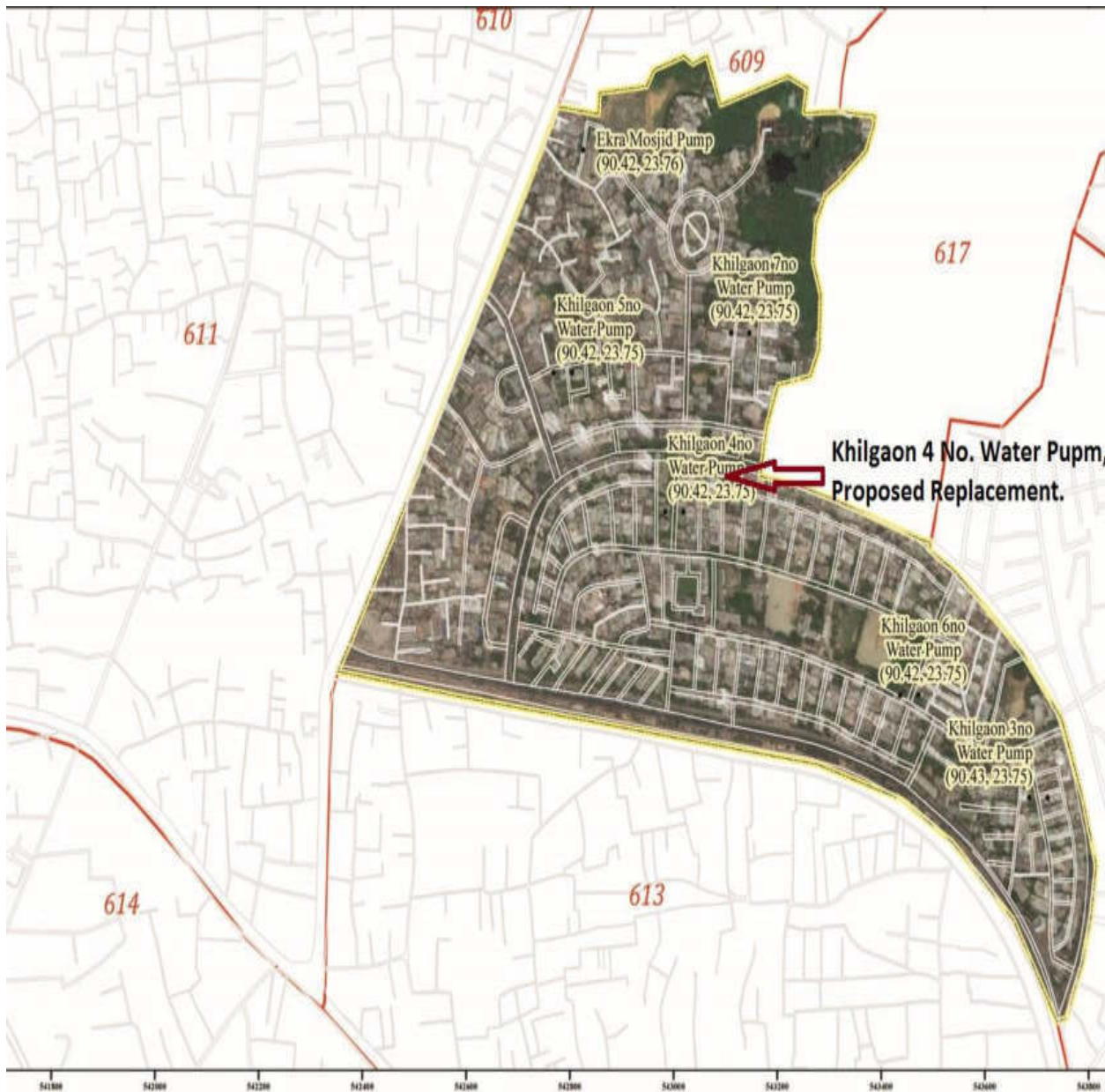
Moghbazar Wireless Gate, Water Pump, Dhaka.



**Moghbazar Wireless Water Pump, Proposed Replacement**

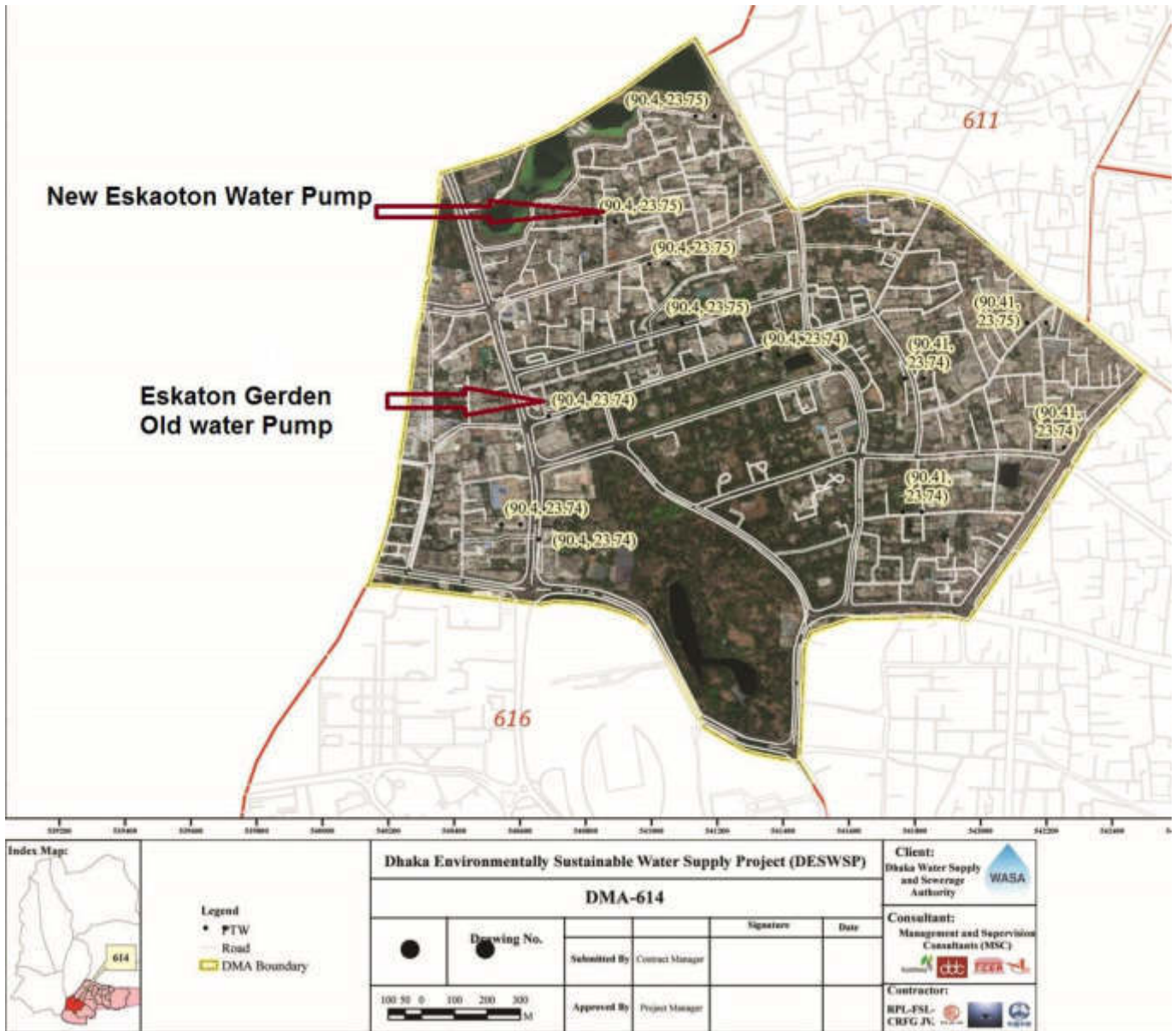
|                        |  |  |  |  |  |   |
|------------------------|--|--|--|--|--|---|
| <b>Index Map:</b><br>  | <b>Legend</b><br>• PTW<br>— Road<br>□ DMA Boundary | <b>Dhaka Environmentally Sustainable Water Supply Project (DESWSP)</b> |  |  |  | <b>Client:</b><br>Dhaka Water Supply and Sewerage Authority<br> |
|                        |  | <b>DMA-611</b>   |  |  |  |   |
| Drawing No.            |  | Submitted By: Contract Manager   |  | Signature: _____ Date: _____                   |  |   |
| 100 50 0 100 200 300 M |  | Approved By: Project Manager   |  | <b>Contractor:</b><br>RPL-FSL-<br>CRFG JV.<br> |  |   |

Khilgaon 4 No. Water Pump, Proposed Replacement.

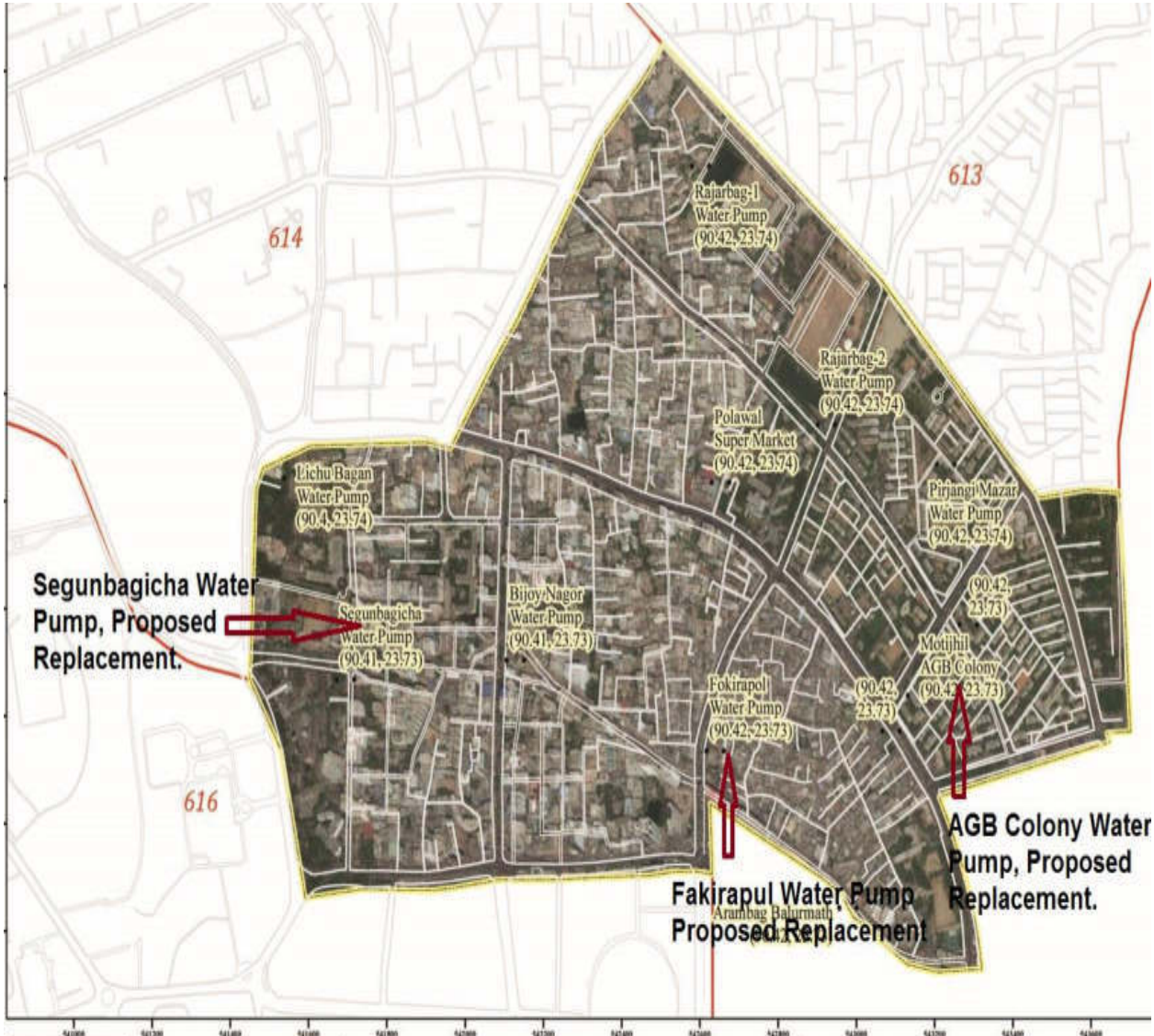


|                          |   |   |                                     |      |  |   |
|--------------------------|---|---|-------------------------------------|------|--|---|
| Index Map:<br>           | Legend<br>• PTW<br>— Road<br>DMA Boundary | Dhaka Environmentally Sustainable Water Supply Project (DESWSP) |                                     |      |  | Client:<br>Dhaka Water Supply and Sewerage Authority<br>        |
|                          |   | DMA-612   |                                     |      |  | Consultant:<br>Management and Supervision Consultants (MSC)<br> |
| Drawing No.              |   | Submitted By<br>Contract Manager                                | Signature                           | Date |  |   |
| 50 25 0 50 100 150 M<br> |   | Approved By<br>Project Manager                                  | Contractor:<br>RPL-FSL-CRFG JV.<br> |      |  |   |

New Eskaton Water Pump and Eskaton Gerden Old Water Pump, Proposed Replacement.

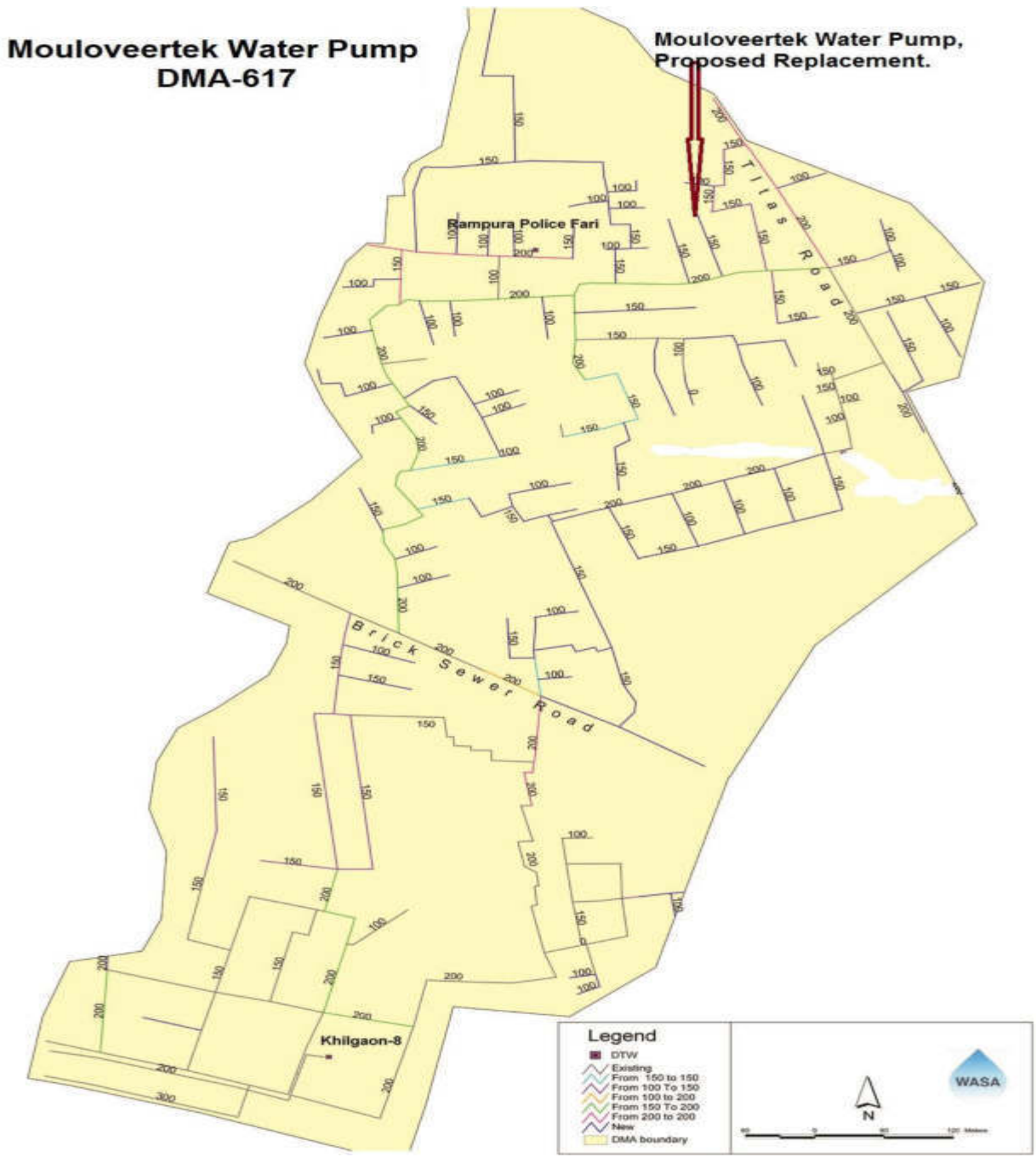


AGB Colony Water Pump, Fakirapul Water Pump and Segunbagicha Water Pump, Proposed Replacement.



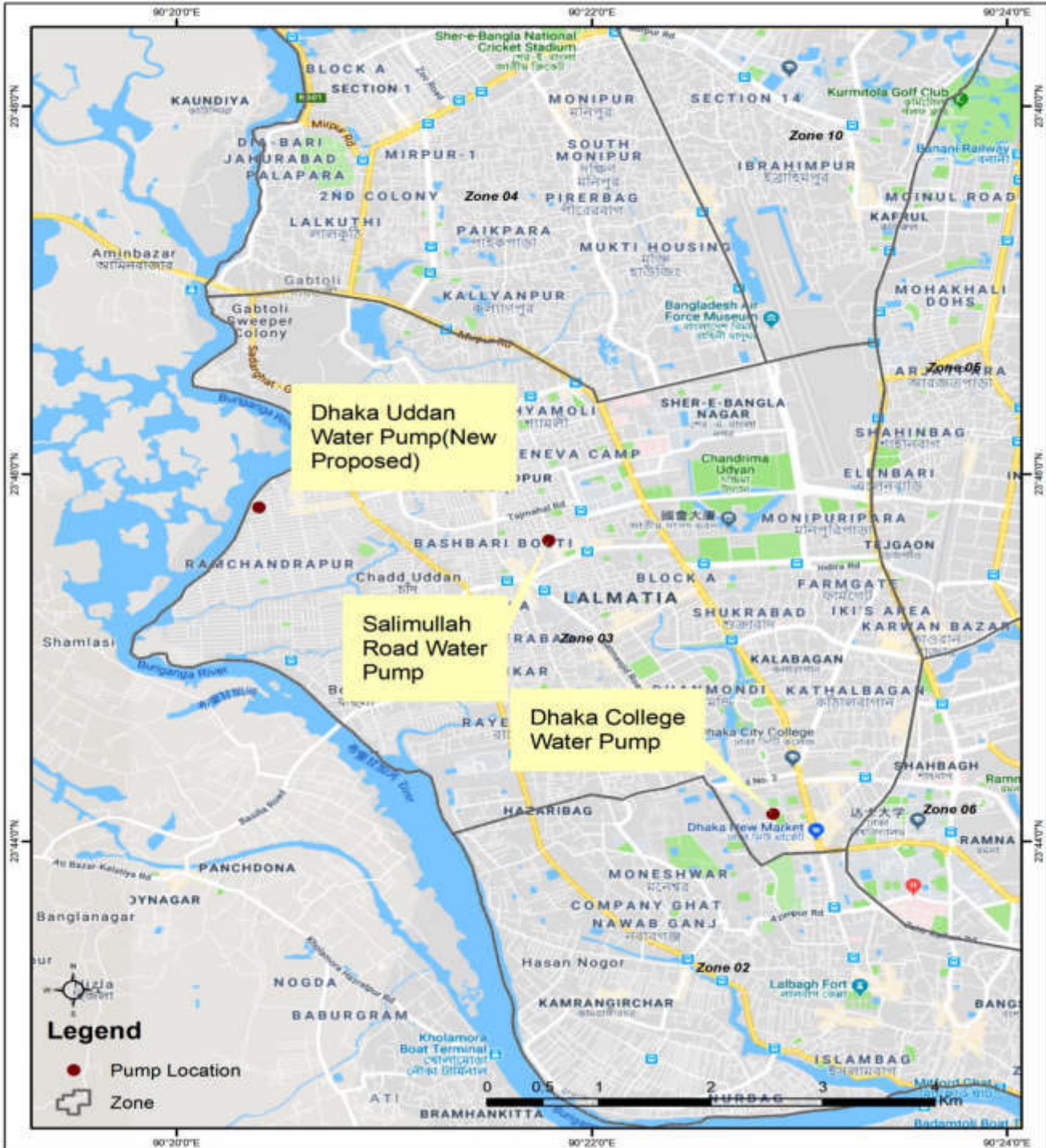
|                       |  |  |  |                                       |  |  |
|-----------------------|--|--|--|---------------------------------------|--|--|
| <b>Index Map:</b><br> | <b>Legend</b><br>• FTW<br>— Road<br>DMA Boundary | <b>Dhaka Environmentally Sustainable Water Supply Project (DESWSP)</b> |  |                                       |  | <b>Client:</b><br>Dhaka Water Supply and Sewerage Authority (WASA) |
|                       |  | <b>DMA-615</b>   |  |                                       |  |  |
| Drawing No.           |  | Signature  |  | Date                                  |  |  |
| Submitted By          |  | Contract Manager   |  |                                       |  |  |
| Approved By           |  | Project Manager  |  | <b>Contractor:</b><br>RPL-FSL-CRFG JV |  |  |
| Scale: 0 50 100 150 M |  |  |  |                                       |  |  |

Mouloveertek Water Pump, Proposed Replacement.



Dhaka Uddan Water Pump Proposed new, Salimollah Road Water Pump Proposed and Dhaka College Water Pump Proposed Replacement.

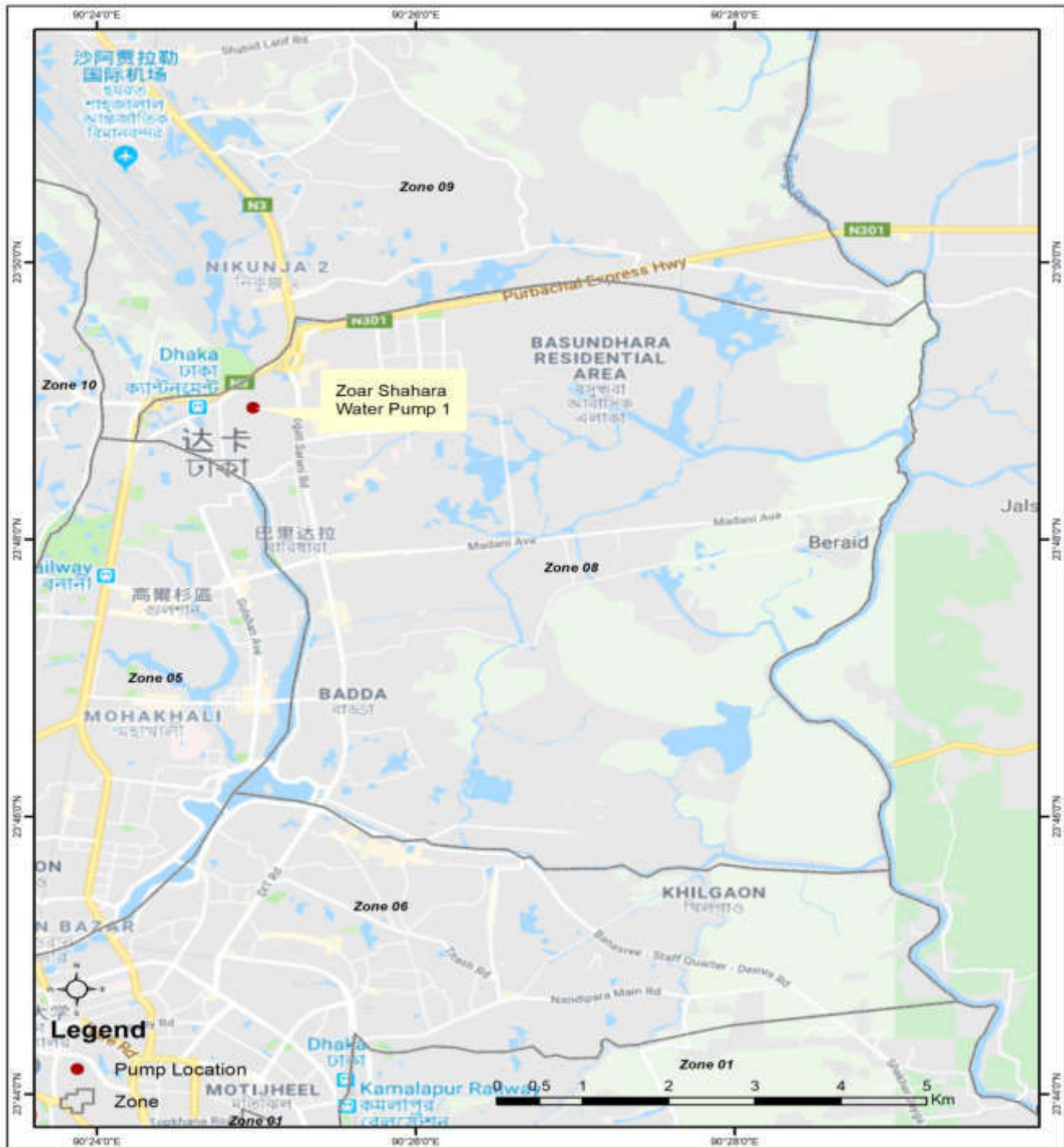
### Pump Location Map: MODS Zone 03



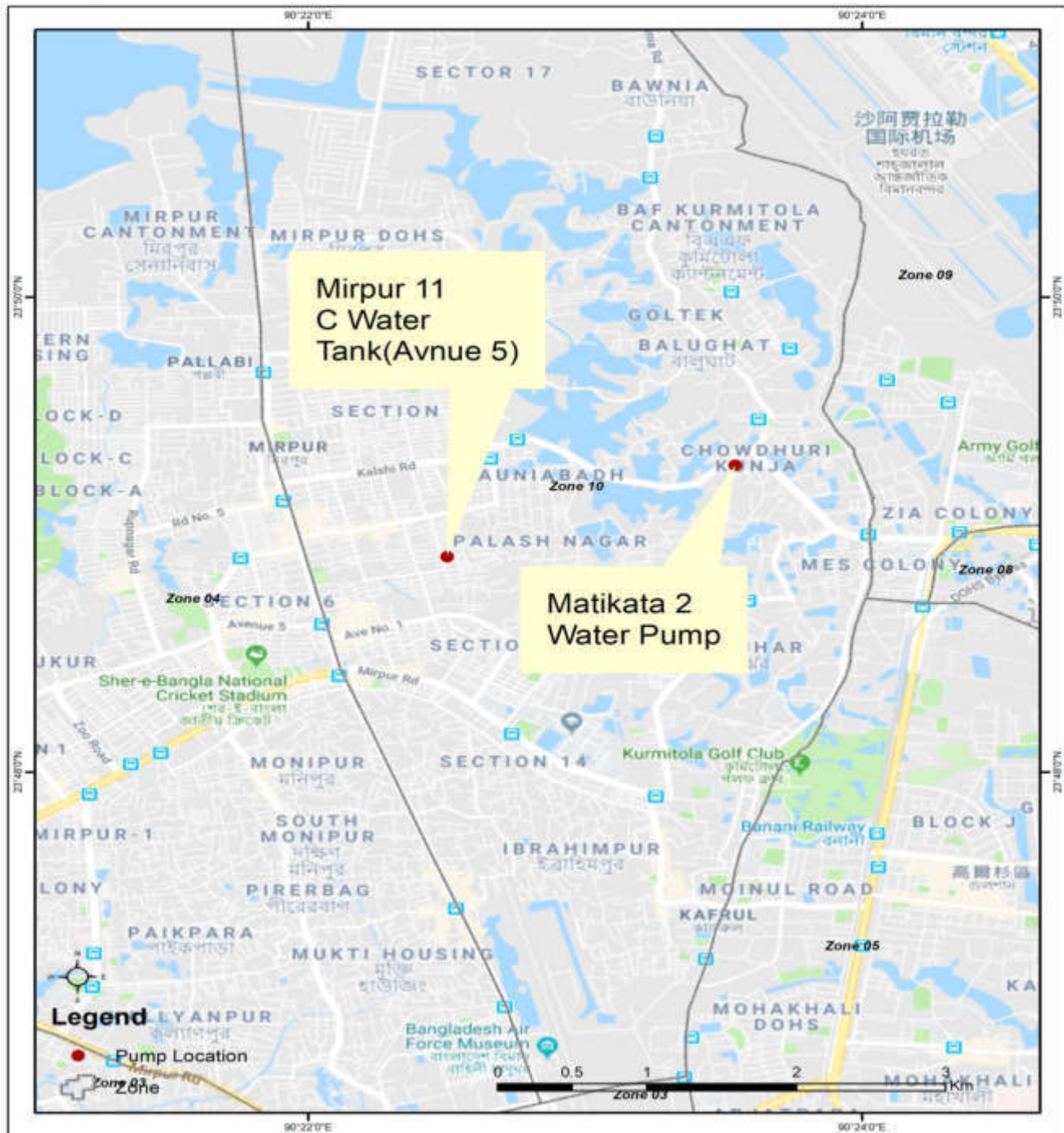
### Pump Location Map: MODS Zone 07



### Pump Location Map: MODS Zone 08



### Pump Location Map: MODS Zone 10



**Consultant for Package NCB 4.1:**

Deployed a Hydro- geologist for supervision and investigation on drilling report- lithology-sieve analysis-borehole, geophysical logging report resistivity/Sp etc., well design, well installation, gravel design, well development, step draw down, aquifer testing, aquifer loss, well loss, verticality test, sand content and report and submersible pump design. Contract form of Consultant for Package NCB 4.1 is attached in Appendix-6.

Appendix-6

AXA 0,808

Contract No. 46.113.618.00.00.W-115/DESWSP/ 1ÜG6 Date : 01.10.2019

**XIII. Contract Agreement**

(TIME-BASED)

This CONTRACT (hereinafter called the "Contract") is made the 1st day of the month of October, 2019, between, on the one hand, **Dhaka Wuter Supply and Sewerage Authority (DWASA)** (hereinafter called the "Client") and, on the other hand, Md. Shah Wa li Masud Pha h (oVi (hereinaftÊr called the "Consultant").

156. WHERE AS,

157.

The Client has requested the Consultant, to provide certain consulting services as defined in this Contract (hereinafter called the "Services");

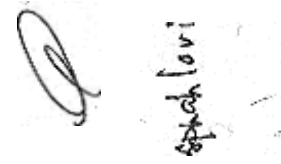
The Consultant, having represented to the Client that it has the required professional skills, expertise and technical resources, has agreed to provide the Services on the terms and conditions set forth in this Contract; Consulting services involve: Individual Consultant (Senior Hydro-Geologist) to Technical Assistance on Deep Tube Well Drilling, Pump Design, Installation, Water Quality Analysis, O & M Report preparation, and related Geological and Hydrogeological report preparation etc. for DESWS Project, Dhaka WASA.

(b) . The Client had received a loan from the Asian Development Bank - toward the cost of the Services and intends to apply a portion of the proceeds of this loan to eligible payments under this Contract, it being understood that,

Payments by the Bank will be made only at the request of the Client and upon approval by the Bank;

Such payments will be subject, in all respects, to the terms and conditions of the loan agreement.

(SA0800

Handwritten signature and a stamp that reads "Sachin" vertically.

**NOW THEREFORE** the parties hereto hereby agree as follows:

The following documents attached hereto shall be deemed to form an integral part of this Contract:

Minutes of Contract Negotiation Meeting with all annexure (A to C) and Additional annexure of Contract Negotiation.

(b) — Corrupt and Fraudulent Practices); Appendices

(c) Appendix A : Terms of Reference (TOR) - Appendix B : Remuneration Cost Estimates

Appendix C : Work Plan and Program Schedule ,

In the event of any inconsistency between the documents, the following order of precedence' shall prevail: minutes of Contract negotiation Meeting with all annexure and additional annexure, Appendix A:Terms of Reference (TOR) Any reference to this Contract shall include, where the context permits, a reference to its Appendices.

The mutual rights and obligations of the Client and the Consultant shall be as set forth in the Contract, in particular:

The Consultant shall carry out the Services in accordance with the provisions of the Contract; and

The Client shall make payments to the Consultant in accordance with the provisions of the Contract.

Payment under this Contract shall be in accordance with Appendix B, (excluding IT & VAT) and shall not exceed the ceiling-figures given in the Appendix B, except as otherwise agreed between the client and the Consultant.

d. "

As per schedule of payment and in accordance with Appendix B (excluding IT & VAT) under this contract shall not exceed BDT- **50,00,000 (Fifty Lakhs)**

The **Total** contract amount is **BDT 63,50,000 (Sixty Three Lakhs and Fifty Thousand) only** including Local **TAX** and **VAT** amounting **BDT 13,50,000 (Thirteen Lakhs fifty Thousand) only**

Contd. Page # 03

## Part B: Intake, RW Pipeline, WTP, Treated Water Pipeline & Distribution Network

### I. Introduction

#### A. General Information

1. This report is the tenth Semi-annual Environmental Monitoring Report, which covers the period from January to June 2020, prepared in compliance with the environmental scope of the construction supervision of P1 Package (Tranche) of DESWSP. The main purpose of this monitoring is to ensure the implementation of environmental mitigation measures during the construction phase. Environmental issues are also anticipated to be identified in advance for avoidance and to ensure timely completion of the project. Construction work of other Packages of P2, P3.1 and P3.2 have not yet started.

#### 2. P1 Financial and Time

|                      |                      |                          |             |
|----------------------|----------------------|--------------------------|-------------|
| <b>Project stage</b> | Construction         | <b>Commencement date</b> | 13 May 2019 |
| <b>Cost</b>          | BDT 25,394 M         | <b>Completion date</b>   | 13 May 2023 |
| <b>Spent to-date</b> | BDT 9,187 M (36,20%) | <b>Time elapsed</b>      | 38.6%       |

#### 3. P1 Physical Progress

| Construction | Progress | Status                 |
|--------------|----------|------------------------|
| Design       | 71.8%    | 8.1% ahead of schedule |
| Construction | 20.8%    | 8.3% behind schedule   |
| Overall      | 25.1%    | 13.5% behind schedule  |

4. P2, P3.1 and P3.2 has no physical progress at this moment.

5. This report is produced by the Management Design and Supervision Consultant (MDSC) providing services to the PMU Dhaka Environmentally Sustainable Water Supply Project of DWASA, Ministry of Local Government Rural Development and Cooperatives (MLGRDC) of Bangladesh Government supported by the Asian Development Bank, ADB Loan Number: 3051-BAN.

6. The Government of Bangladesh has received financing from the ADB, Agence Française de Développement (AFD), and European Investment Bank (EIB), which will be re-lent to Dhaka Water Supply and Sewerage Authority (DWASA) for the implementation of Dhaka Environmentally Sustainable Water Supply Project (DESWSP). The proposed project aims to provide safe, reliable and continuous drinking water as per Government of Bangladesh's standard to about 15 million people of Dhaka-the capital, located in the heart of the country.

7. DWASA is responsible for providing potable water supply services to about 90% of Dhaka's population, sewerage services, and storm water drainage services throughout its 400km<sup>2</sup> services areas. In fact, the city relies heavily on groundwater sources for water supply but current abstraction exceeds sustainable yields, water table levels are falling by 2 to 3 m /year and increasing numbers of tube wells become inoperable. Groundwater extraction is expected to be reduced from 1,900 MLD in 2012 to 1,360 MLD by 2020 and 1,260 MLD by 2025. In addition, ground water quality deteriorates continuously. At the same time, the overall supply needs to be increased to cater for the growing population in a larger service area.

8. Out of the total 2400 MLD currently provided by DWASA, 450 MLD is provided by the two phases of Saidabad Water Treatment Plant (WTP), which abstracts water from the nearby Shitalakhya River through an intake pumping station known as Sarulia pumping station, where water quality is deteriorating rapidly, particularly due to high ammonia concentrations during the dry season. This puts sustainable operation of the WTP at serious risk. This in turn makes it essential for DWASA to find an adequate and sustainable source of raw water to achieve its long-term development objectives.
9. The outcome of the project will be drinking water security ensured in selected district metered areas (DMAs), and in addition, gender-responsive, and sustainable drinking water service delivered in Project DMAs.
10. As discussed, the project is financed by the Asian Development Bank (ADB) and the DWASA (is the Client) is the executing agency for implementing the project. The procurement procedures and administration were performed following relevant ADB Procurement Guidelines (2010, as amended from time to time). Implementation schedule for various components is provided in the project administration manual (PAM).
11. The IEE P1 Report of January 2020 supersedes the IEE prepared in 2013 and considers the revised detailed design and scope of work for Package 1 (P1). Package 1 is the raw water intake at the Meghna river with structure with 1050 MLD capacity + 22 km raw water pipeline + WTP at Gandharbpur (DWASA Land) having capacity 500 MLD. Package 1 has been categorized as category B according to ADB guidelines (ADB SPS 2009). As described, an updated IEE has been conducted (IEE P1, July 2019) as the project is likely to have minor or limited impacts, which can easily be predicted and evaluated, and for which mitigation measures are prescribed to enable and implement monitoring of EMP commitment.

## **B. Objectives and Methodology**

12. This Semi-annual Environmental Monitoring Report (SAEMR) intends to describe the results of monitoring the construction works from January to June 2020. Accordingly, the P1 Contractor (SUEZ) mobilized and started preliminary works in May 2019, hence after the first 8 months, preparatory activities are done and permanent construction starts. As such detail information is available during this period. However, the environmental monitoring consists of two parts, and these are: (i) monitoring of the compliance with the environmental management plan (EMP); and (ii) monitoring of the ambient environmental conditions. The assessment of compliance with EMP commenced with the review of the environmental management conditions required for compliance during the construction stage of the projects.
13. The MDSC Consultant in coordination with DWASA, and Contractor is committed to conducting operations and activities in a manner that provides and maintains safe and healthful working conditions, protects the environment and the public, and conserves natural resources. Furthermore, commitment to environmental excellence through compliance with all applicable national and ADB regulations; proactive planning to integrate sound environmental, safety, and health principles; and a solid commitment to ensure water supply for Dhaka City considering environmental safeguard issues.
14. The objectives of SAEMR are:
  - i. Ensure that the construction activities are implemented in a responsible non-detrimental manner;
  - ii. Provide a practical working tool to enable the measurement and monitoring of environmental performance on site;
  - iii. Detail specific actions to assist in mitigating the environmental impact of the construction; and

- iv. Ensure that safety guidance is complied with. The site-specific management plan (SSMP) includes a monitoring program to measure the environmental condition and effectiveness of implementation of the mitigation measures. It will include observations on-and off-site, document checks, and interviews with workers and beneficiaries.

### C. Project Description

15. The P1 consists of the following components:

- i. Construction of an intake at the Meghna River within the village of Bishnondi, with pumping and other facilities to deliver an uninterrupted supply of water into the transmission mains. This intends to withdraw up to 1,050 MLD from Meghna River in two phases for transmission to Dhaka city and for distribution after treatment.
- ii. Construction of 22km raw water transmission pipelines connecting the raw water intake with the Gandharbpur water treatment plant (WTP);
- iii. Construction of a 500-MLD surface water treatment plant at Gandharbpur, (DWASA Land).

16. The project spread east-west through Araihasar and Rupganj Upazilla of Narayanganj District in Bangladesh. At the east end of the project, the intake is on the bank of Meghna River at Bishnanadi Union (adjacent GPS: N 23° 44' 45.821", E 90° 42' 45.186"), which is about 2km downstream (south) of Manikpur Ferry Ghat/crossing (See Figure 1). The proposed pipelines and road are mostly through agricultural land and the pipeline will cross at Shezan Point at Dhaka-Sylhet Highway. West end of the Package-1, the Water Treatment Plant is located at Gandharbpur village of Murapara Union of Rupganj Upazilla (GPS: N 23° 45' 32.422", E 90° 30' 50.119").

**Figure I.1: Proposed Intake location**



17. A total of 197-acre land acquired for this part of the project. The land area required for the WTP site was acquired by DWASA in 1982, and hence, no new land acquisition required for WTP.

18. The Project Components in details are provided in Table-1.

**Table I.1: Project components**

| No. | Sub project name                      | Status of sub-project |                  |              |                 | List of works  | Progress of works   |
|-----|---------------------------------------|-----------------------|------------------|--------------|-----------------|--|---|
|     |                                       | Design                | Pre construction | Construction | Operation Phase |  |   |
| 1   | Package 1 (ICB-01/B&D/DESWSP/2014)    |                       |                  | x            |                 | Intake + pump station on Meghna River at Bisnandi, 21km raw water pipeline, and new WTP at Gandharbpur | Reservoir excavation and backfilling of pond works are completed, Platform for chemical building and for ground reservoir is ready for DSM, scaffolding and base slab reinforcement are completed on WTP, Sheet-piling at Intake is on-going, Construction of dyke for Intake on-shore platform is on-going |
| 2   | Package 2 (ICB-3.0/TWP/DESWSP/2018)   |                       | x                |              |                 | 14 km treated water transmission pipeline from Gandharbpur WTP to American Embassy in Dhaka            | Not started   |
| 3   | Package 3.1 (ICB-3.1/DRP/DESWSP/2018) |                       | x                |              |                 | 22 km of primary distribution pipelines from American Embassy in Dhaka                                 | Not started   |
| 4   | Package 3.2 (ICB-3.2/FL/DESWSP/2018)  | x                     |                  |              |                 | 43 km of feeder pipelines to DMAs in N-E Dhaka   | Not started   |

**D. Contract for Construction Supervision Services**

19. Part of the project funds allocated to pay for consulting services for implementation of quality of the works involving construction of P1, P2, P3.1, and P3.2 Project components. As such, Mott MacDonald with associates are project management design and supervision consultant (MDSC) of this contract.
20. The main tasks of the Contract for Consulting Services are provision of high quality and performance of the Contract in time within budget, as well as performance of construction works in full compliance with Specifications, and FIDIC 2010 as per economic standards, and environment management plan (EMP), compliance with all Contract documents.
21. The salient information is provided below:

- i. **Package P1: Construction of Intake, RWT, & GWTP**  
Contractor: SUEZ of France  
 Contract Amount: USD 382,935,524.22  
 Revised Contract Amount: USD N/A Contract Signed: 16<sup>th</sup> May 2018  
 Location: P1 (construction of Intake, RWT, & WTP)
- ii. **Package P2: 14 km Treated Water Transmission Line from GWTP to Injection Point near US Embassy**  
Contractor: N/A  
 Contract Amount: N/A  
 Revised Contract Amount: N/A  
 Contract Signed: N/A  
 Location: P2 (14 km Treated Water Transmission Line from GWTP to Injection Point near US Embassy)
- iii. **Package P3.1: Primary distribution water pipeline with 1.4-0.8 m diameter starting from US Embassy to Uttara DMA**  
Contractor: N/A  
 Contract Amount: N/A  
 Revised Contract Amount: N/A  
 Contract Signed: N/A  
 Location: P2 (Primary distribution water pipeline with 1.4-0.8 m diameter starting from US Embassy to Uttara DMA)

#### **E. Changes in Project Organization and Environmental Management Team**

22. As discussed, the Executing Agency (EA) is DWASA under MLGRDC has set up a Project Management Unit (PMU)<sup>9</sup> including its national specialists to manage day-to-day coordination, implementation, and monitoring and administration activities of the project. The specialists of PMU Environmental and Social safeguard Section are assisted by MDSC. During this period, the environmental team of MDSC (environmental expert & field inspector) coordinated with those PMU specialists, checked the overall initial works and site activities from environmental perspective. The Contractor SUEZ environmental H&S Manger (Mr. Nwokedi Uchefuna) was engaged in acquiring field data and information from the beginning of the project, and Field Inspector of MDSC and MDSC construction supervision monitored the preparatory activities

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<sup>9</sup> Project Management Unit (PMU) established in Dhaka to guide, supervise and overall monitoring of project implementation activities, supported by MDSC (MML).

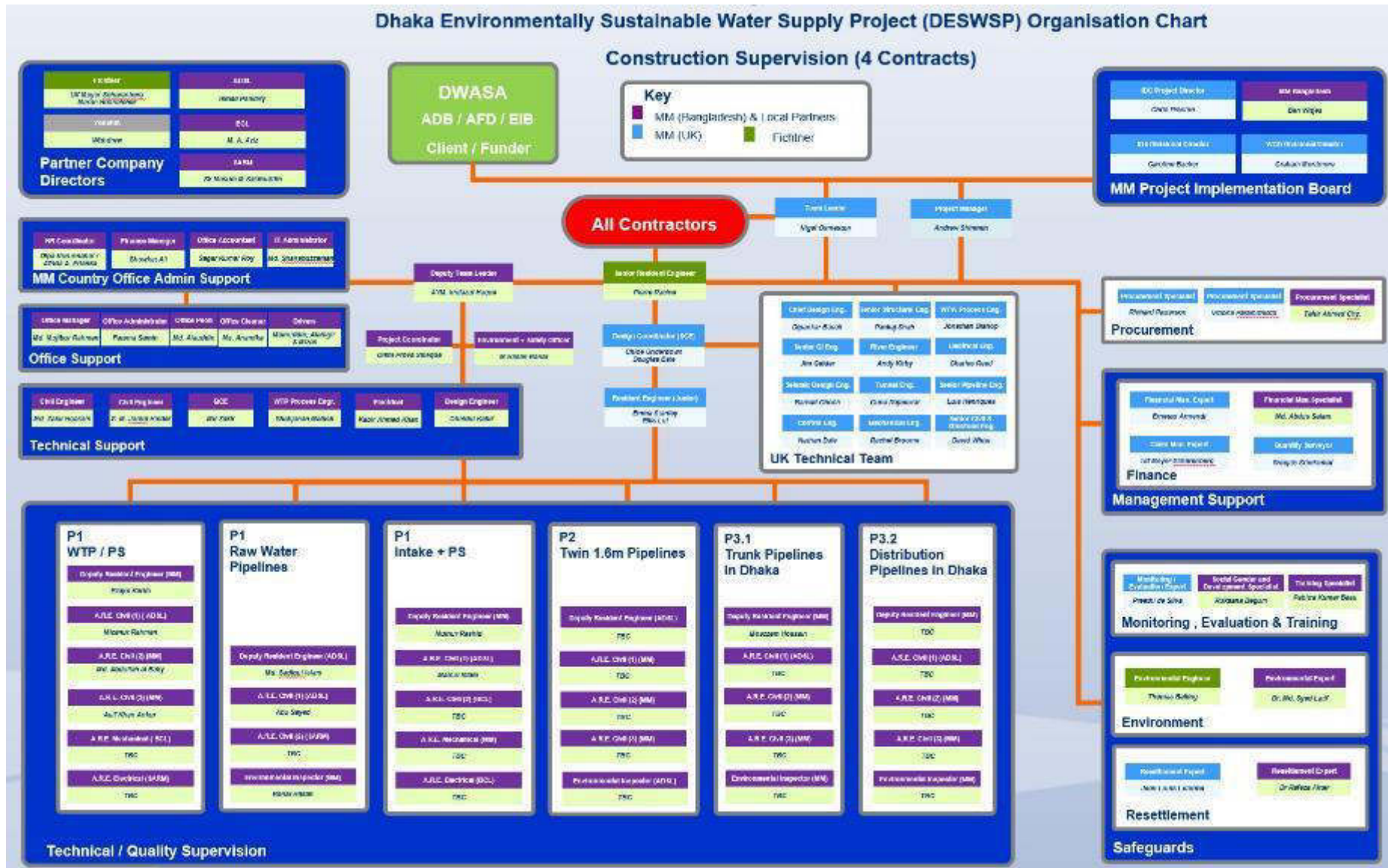
and collected site-specific data as part of EMMP requirement. The information of name, position and contact details of the HSE nodal person for Package 1 is shown below table.

**Table I.2: HSE Nodal Person Information**

| SI | Name                | Designation    | Contact details |                             | Unit       |
|----|---------------------|----------------|-----------------|-----------------------------|------------|
|    |                     |                | Cell ph. No     | Email                       |            |
| 01 | Nwokedi<br>Uchefuna | HSE<br>manager | +8801300567751  | nwokedi.uchefuna@gwtsnc.com | Contractor |

23. However, during this period, no changes to the project organization structure occurred. There were no other changes to MDSC environmental team.

Figure I.2: Project Organization Chart



## F. Relationships with Contractors, Owner and Lender

24. During this reporting period the DESWSP-DWASA closely collaborated with MDSC, ADB and Contractor of P1 (SUEZ) to review Environmental Reports for the Program. Contractor provided Monthly Reports, EMP, EMS, and Management Plan Health & Safety System. The communication with PMU is going directly and through Nigel A Osmaston, (Team Leader); Imtiazul Haque, (Deputy Team Leader), Pierre Racine (MDSC construction supervisor) and by e-mail exchange.

## II. Consideration of Environmental Safeguards During Project Preparation

25. At the time of project preparation at feasibility stage, the PPTA consultants were deputed for the survey and preparation of IEE in 2013 covering all 3 components (P1, P2, and P3). The IEE P1, IEE P2, IEE P3 and EIA<sup>10</sup> have been prepared during detailed project design by MDSC engaged by DWASA.

### A. Environmental Monitoring Work Coordination

26. The responsible environmental safeguard Officer Md. Saidur Rahman of PMU Safeguard Implementation Unit, (SIU) reviews the environmental reports related to the project and reviewed monitoring of compliance of the contractors' performance with the approved EMPs, environmental standards and other environmental commitments of the contractor. Environmental monitoring in the field is among the work scope of the Engineer (MDSC-MML), and the tasks of actual monitoring is undertaken by the Contractor in association with international and national environmental specialists and environmental field inspector (Dr. Thomas Balling, Syed Latif, and Md. Mahmodul Hasan Rahat), The international environmental specialist is mobilized on an intermittent basis to undertake field audit. The information of the safeguard team is shown in a tabulated form below.

**Table II.1: Information of Safeguard Team**

| Name              | Designation/Office                                     | Email Address            | Contact Number  |
|-------------------|--|--------------------------|-----------------|
| 1. PMU            |  |                          |                 |
| Md. Saidur Rahman | Safeguard Officer<br>(Environment)<br>DESWSP,<br>DWASA | saidur.r.m.plc@gmail.com | +880 1715149604 |
| 2. Consultant     |  |                          |                 |
| Md. Mahmodul      | Environmental<br>Inspector, MDSC                       | rahat.hasan@mottmac.com  | +880 1818390189 |

<sup>10</sup> IEE, DWASA 2013, Revised IEE P1; IEE P2; IEE P3.1; IEE P3.2, DESWSP-DWASA, 2019, & EIA, DESWSP- DWASA, December 2018

| Name                      | Designation/Office                            | Email Address               | Contact Number  |
|---------------------------|---|-----------------------------|-----------------|
| Hasan<br>Rahat            |   |                             |                 |
| Thomas<br>Balling         | Int. Environmental<br>Specialist, MDSC        | thomas.balling@fwt-mobil.de | +880 1833369964 |
| Syed<br>Muhammad<br>Latif | National<br>Environmental<br>Specialist, MDSC | latifsyed_ny@yahoo.com      | +880 1715004452 |
| 3.<br>Contractor          |   |                             |                 |
| Nwokedi<br>Uchefuna       | HSE Manager,<br>GWTSNC                        | nwokedi.uchefuna@gwtsnc.com | +8801300567751  |

27. The National Environmental Specialist, and the Environmental Field Inspector manage the unit and responsible for the services on environmental issues, compliance of the construction activities, related legislation and inspection visits to the intake site, raw water transmission route GWTP site, construction camp, material stockyard, and waste dumping sites and machinery equipment sites for safeguard evaluation purposes.

28. However, this is to ensure an efficient monitoring activity at all times. Environmental issues arising from the initial construction activities were immediately brought to the attention of the construction supervision team to coordinate efforts in order to immediately mitigate impacts, protect the environment, and safeguard health and welfare of the workers and local communities. All these issues were addressed within the framework of overall construction management and supervision. Aspects in the environmental monitoring are reported in semi-annual basis to PMU and ADB.

### **B. Preparation of Bid Documents**

29. The Environmental Management Plan (EMP) covers the information of potential environmental impacts and the proposed mitigation measure for Package 1 (P1) has been provided in the bidding documents. In addition to the EMP that was provided to the contractors, the bidding document also includes some detailed instructions on subject that highlight in the EMP and environmental monitoring plan on the following:

- i. Precaution to be adopted during disposal of debris of solid wastes including disposal of organic debris generated during construction;
- ii. Precaution to be adopted at sanitation and housekeeping at the labor construction camp like toilets, hygiene, water supply, waste disposal, first aid, overall safety and maintenance etc.;
- iii. To measure and maintain the air quality standard;
- iv. To measure and maintain the noise and vibration quality standard and;
- v. To check the primary water quality standard including physical and chemical properties of drinking water and surface water.

30. The contractors' response on the instruction to include works for environmental impacts associated with the construction activities is expressed by the monitoring reports since beginning of the Project. As such, necessary budget had been allocated particular for Category 'B' projects to handle environmental problems. Additionally, the contractors' budget includes items of implementation of environmental management and monitoring plan included in the contract document. The contract document<sup>11</sup> for the contractors includes detailed terms and conditions regarding the safeguard issues and implementation of the Environmental Management and Monitoring Plans that has to be adhered and implement by the P1 Contractor.

### **C. Environmental Statutory Clearances**

#### **Compliance with ADB Guidelines**

31. According to the environmental guidelines of ADB the project falls under Category B and hence an IEE is sufficient to meet the environmental requirements. An IEE report was prepared by the consultant engaged by the ADB during appraisal. However, during the detailed design stage updated IEEs for all packages are being prepared. The project is also in conformity with the latest Guideline of ADB i.e. Safeguard Policy Statement 2009.

32. At the time of project preparation at feasibility stage, the PPTA consultants were deputed for the survey and preparation of IEE for the DESWSP (Ref: IEE, DWASA, 2006). As part of detailed project preparation, environmental screening and assessment reports, IEEs were prepared by environmental consultant engaged by the DWASA supported by ADB. Further, the consultant suggested to ensure in procurement process that all information required for environmental safeguard stated in the environmental assessment report and Environmental Management Plan (EMP) which have been prepared earlier under the respective pipeline rehabilitation clauses have to be incorporated in the work schedule so that contractors can adopt mitigation measures associated with construction works. Management and Supervision Consultants (MSC) have to monitor the implementation of EMP which is used to work by contractors; and ensure that the EMP is implemented throughout project implementation period. Half yearly Environmental Safeguard Report has to be prepared by the Consultant to be forwarded to PMU and ADB. It could be mentioned that IEE with EMP has been prepared according to ECA'95 (Environmental Conservation Act) & ECR'97 (Environmental Conservation Rules) and it is mandatory to follow the rules ordered by GoB and ADB guidelines. To follow the rules, contractors have to collect no objection certificates from local authorities (like DESA, City Corporations and Housing Society etc.) before starting the works of the sub-projects.

**Table II.2: Status of Environmental Documents**

| Package | Subject | Status |
|---------|---------|--------|
|         |         |        |

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<sup>11</sup> Contract Documents (DWASA & P1 Contractor, date: 16 May, 2018)

|                  |                             |  |
|------------------|-----------------------------|--|
| P1               | IEE Package 1, DESWSP, 2020 | Prepared, and approved by ADB in January 2020  |
|                  |                             | The Contract awarded to French Contractor "Suez-Viola"<br>Date of Contract Signed & Commencement                       |
|                  |                             | Earthworks related to land gradation & topsoil removal in progress. Preparatory works for intake construction started. |
| P2               | IEE P2                      | Approved by ADB in January 2020  |
| P3 (P3.1 & P3.2) | IEE P3                      | IEE P.3 approved by ADB in January 2020, IEE extension for additional loan for P3.2 under preparation by ADB           |

33. As stated in the funding document, prior to commencing a civil work all the required statutory clearances have to be obtained with regard to the P1 contract, classified by ADB as 'B' Category project. As such, environmental statutory clearances for the Project are related construction of intake, to removal of trees, excavation of raw water transmission line, vegetation clearance at GWTP site, and acquisition of land, temporary acquisition and rental for contractor's camp and office, material stockpile, equipment storage area etc., However, clearances and no-objection letters for these activities have been obtained from the WARPO, DoE, LGED, Araihasar and Rugganj Upazillas of Narayanganj District where the alignment will pass (Detailed in IEE P1). ECC has been extended by DoE on 24 November 2019. ECC is valid for one more year (Appendix-E). It refers to all packages of the project.

#### Compliance Status with Environmental Loan Covenants

34. The following table summarizes the working schedules and the status of these schedules at the time when this Semi-Annual Safeguard Monitoring Report has been compiled.

**Table II.3: Compliance Status with Environmental Loan Covenants**

| SL No | Reference  | Details  | Status  | Remarks |
|-------|------------|--|---|---------|
| 2     | Schedule 4 | <p><b>Conditions for Issuance of Notice to Commence Works</b></p> <p>The Borrower shall not issue a notice to commence Works under:</p> <p>(a) any Works contracts which involves environmental impacts until: (i) the Borrower's Department of Environment has granted the approval of the IEE (including approval of separate environmental impact assessment required to be prepared under Bangladesh law); and (ii) the Borrower has</p> | For DBO:<br>8 (a) & (b)<br>under<br>Progress. |         |

| SL No | Reference  | Details  | Status   | Remarks |
|-------|------------|--|--|---------|
|       |            | <p>incorporated the relevant provisions from the EMP into the Works contract; and</p> <p>(b) any Works contracts which involves involuntary resettlement impacts, until the Borrower has prepared and submitted to ADB the final RP based on the Project's detailed design, and obtained ADB's clearance of such RP.</p>   |  |         |
| 3     | Schedule 5 | <p><b>Environment</b></p> <p>The Borrower and DWASA shall ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions set forth in any Safeguards Monitoring Report to be provided to ADB.</p>  | For DBO: 8<br>(a) & (b)<br>under<br>Progress   |         |
| 4     | Schedule 5 | <p>Human and Financial Resources to Implement Safeguards Requirements</p> <p>The Borrower and DWASA shall make available necessary budgetary and human resources to fully implement the EMP and the RP.</p>  | Complied   |         |
| 5     | Schedule 5 | <p><b>Safeguards</b> – Related Provisions in Bidding Documents and Works Contracts</p> <p>The Borrower and DWASA shall ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>Comply with the measures relevant to the contractor as set forth in the IEE, the EMP, and the RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;</p> <p>Make available a budget for all such environmental and social measures;</p> <p>Provide the Borrower and DWASA with a written notice of any unanticipated environmental, resettlement or small ethnic community peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, and RP;</p> <p>Adequately record the condition of roads, agricultural land and</p> | a) Complied<br>b) under<br>Progress<br>c) under<br>Progress<br>d) under<br>Progress<br>e) addressed<br>as required |         |



|   |                  |   |   |   |             |   |                              |                          |                          |
|---|------------------|---|---|---|-------------|---|------------------------------|--------------------------|--------------------------|
| 2 | RHD              | Y | Y | Y | -           | Y | Approved with conditions     | Y                        | -                        |
| 3 | RAJUK            | - | Y | Y | Not Applied |   | Approved with conditions     | No response              | -                        |
| 4 | LGED             | - | Y | - | -           | - | Approved with conditions     | -                        | -                        |
| 5 | BIWTA            | - | Y | - | -           | - | Approved with yearly renewal | -                        | -                        |
| 6 | DNCC             | - | - | - | -           | - | -                            | -                        | -                        |
| 7 | Cantonment Board | - | - | - | -           | - | -                            | Approved with conditions | Approved with conditions |

36. For Package 1, EMP compliance includes securing clearances/permits from relevant agencies are provided in above Table L-1: List of no objection certificates for all packages.

#### **D. Grievance Redress Mechanism**

##### **Complaints and Grievance Mechanism**

37. A Grievance Redress Committee (GRC) has been formed at PMU level and will be established at the community level in each Union to resolve complaints and grievances informally through community participation. The GRC formed with representatives from the DWASA, local elected representatives from the Local Government Institutions (LGI), NGO AHs, women AHs to allow voices of the affected communities to be heard and ensure a participatory decision-making process. The representative of the INGO will have the responsibility as Member Secretary of GRC. The GRC decision will be disposing up on a priority basis and be publicized among the local communities. Where the complaining parties are not satisfied with the GRC decisions, they can file their cases in the court of law.
38. The GRC will be established at the community level at Union Parishad through a gazette notification from the Ministry of Local Government, Rural Development and Cooperatives (MLGRDC).
39. The Member Secretary of GRC will be regularly available and accessible for AHs to address concerns and grievances. Female member of GRC and the female APs of the AHs will participate in the grievance redress session when the complainants will be a female. Legal advisor and DORP will support the GRC regularly and assist the APs to formulate their complaints. The grievance cases will be recorded with details and results of the cases for review. Further to note, the affected people can also go to the GRC for any environmental concern.

### Scope and Jurisdiction of GRC

40. The scope of work and Jurisdiction of GRC are:
- (i) The Grievance Redress Committees (GRCs) will be established to ensure stakeholders' participation in the implementation process and fair compensation to affected persons.
  - (i) The APs can also call upon the resettlement NGO to assist them in presenting their grievances or queries to the GRC.
  - (ii) The GRCs will receive grievance cases from the affected persons through the resettlement implementation NGO.
  - (iii) Other than disputes relating to ownership right and award of compensation by the Deputy Commissioner under the Court of Law, GRCs will review grievances involving all resettlement assistances, relocation, and other supports. Grievances will be redressed within 21 days from the date of lodging the complaints. In cases of complicated cases requiring additional investigations it will be resolved within a period of one month.
  - (iv) Grievances of indirectly displaced persons and/or persons displaced during project implementation will also be addressed by the GRC.
  - (v) Where land acquisition will not be involved but relocation of structures or vacating land for cultivation will be required, the GRCs will facilitate resolution of complaints regarding categorization of vulnerable affected persons, types of structures, and eligibility for compensation and assistance within the set guidelines and provisions of the resettlement plan.
  - (vi) Any complaints of ownership or other suits to be resolved by the judiciary system will not be resolved in GRCs. GRC will resolve all complaints, grievances related to compensation entitled by affected persons.
  - (vii) The decisions of the GRC should be 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 social, resettlement and environmental policy framework.
  - (viii) A minimum of 4 (four) members shall form the quorum for the meeting of GRC.
  - (ix) If needed the GRC members may undertake field visit to verify and review the issues at dispute, including titles/share, reasons for any delay in payment or other related matters.
  - (x) In case the resolution is not accepted by the AP, the grievance will be forwarded to Project Director for final decision.

### Filing Grievance Cases and Documentation

41. APs will be able to file their grievances without any fear and intimidation. Where required, the implementing NGO will assist the APs in drafting the grievances. All grievances must be submitted in writing to the Convener, GRC. The complainant may be represented by APs him/herself or appointed agent such as locally elected officials/legal advisors. The judgment made by the 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. In such case, the case will be forwarded to the PD with all documents. If the disputant still remains unsatisfied, he/she can go to the court of law.
42. GRC procedures and operational rules will be publicized widely through community meetings and pamphlets in the local language so that APs are aware of their rights and obligation, and procedures of grievance redress.

43. To ensure access and fast response to any project-related grievances from the affected people and communities, contact numbers and names of focal persons in the DWASA PMU/SIU responsible for any complaints and grievances will be posted in public areas, contractor's field offices, UP offices, and NGO field offices.
44. All GRC documents will be maintained by the INGO for review and verification by MDSC and ADB. DWASA field offices will act as secretariat to the GRCs. As a result, the record will be up-to-date and easily accessible on-site.
45. The GRC meeting will be held in the respective field office of DWASA, DORP Office or other location as agreed by the Committee. If needed, the GRC members may take field visits to verify and review the issues at dispute, including ownership/shares, reasons for any delay in payments or other relevant matters. The complaints and grievances from the AHs will be addressed through the process described in the **Error! Reference source not found.** below.

**Table II.5: Grievance Resolution Process**

| <b>Steps</b> | <b>Action Level</b>      | <b>Process</b>  |
|--------------|--------------------------|---|
| Step 1       | Counselling              | <p>The NGO will recommend that the DPs submit their complaints to the GRC. NGO staff assists the DPs filing the complaints (maximum 7 days);</p> <p>Complaints and grievances from displaced person will first be heard during personal contact and focus group discussion at the village level with the involvement of the SIU social safeguard officer. If not resolved within 14days;</p> <p>The DORP will counsel AHs for gaps in information about the policy and eligibility for compensation and resettlement assistances. The DPs will sign and formally submit the written report to the GRCs at the office of the NGO assisting DWASA in implementing the RP;</p> <p>If the complaint found outside the mandate of the GRC, the DORP will advise the aggrieved AHs to lodge their complaints in the court of law at the district level. If the complaint is within the jurisdiction of GRC, the DORP will advise the aggrieved AHs to formally lodge their complaints with the GRC.</p>       |
| Step 2       | GRC Resolution           | <p>Member Secretary of the GRC will scrutinize the complaints and prepare case file for hearing and resolution. A formal hearing will be held before the GRC at a date fixed by the Member Secretary of GRC in consultation with the convener and other aggrieved AHs.</p> <p>On the date of hearing, the aggrieved AHs will appear before the GRC at a place set in consultation with the AHs and DWASA and procedure proof in support of his/her claim. The Member Secretary will note down the statement of the complainants and documents with all proofs.</p> <p>GRC will deliver its decision on complaints/grievances within 21 days from the date of grievance received. The decisions from majority of the members will be considered final from the GRC and will be issued by the Convener and signed by other members of the GRC. The case records will be updated and the decision will be communicated to the complainant AHs by the Member Secretary of the GRC at the village level.</p> |
| Step 3       | Decision from PMU, DWASA | <p>If any aggrieved AHs is not satisfied with the GRC decisions, the next option will be to lodge grievances to the Project Director of the DESWSP at Dhaka within two weeks after receiving the decision from the GRC. The AHs, in the complaint, must</p>   |

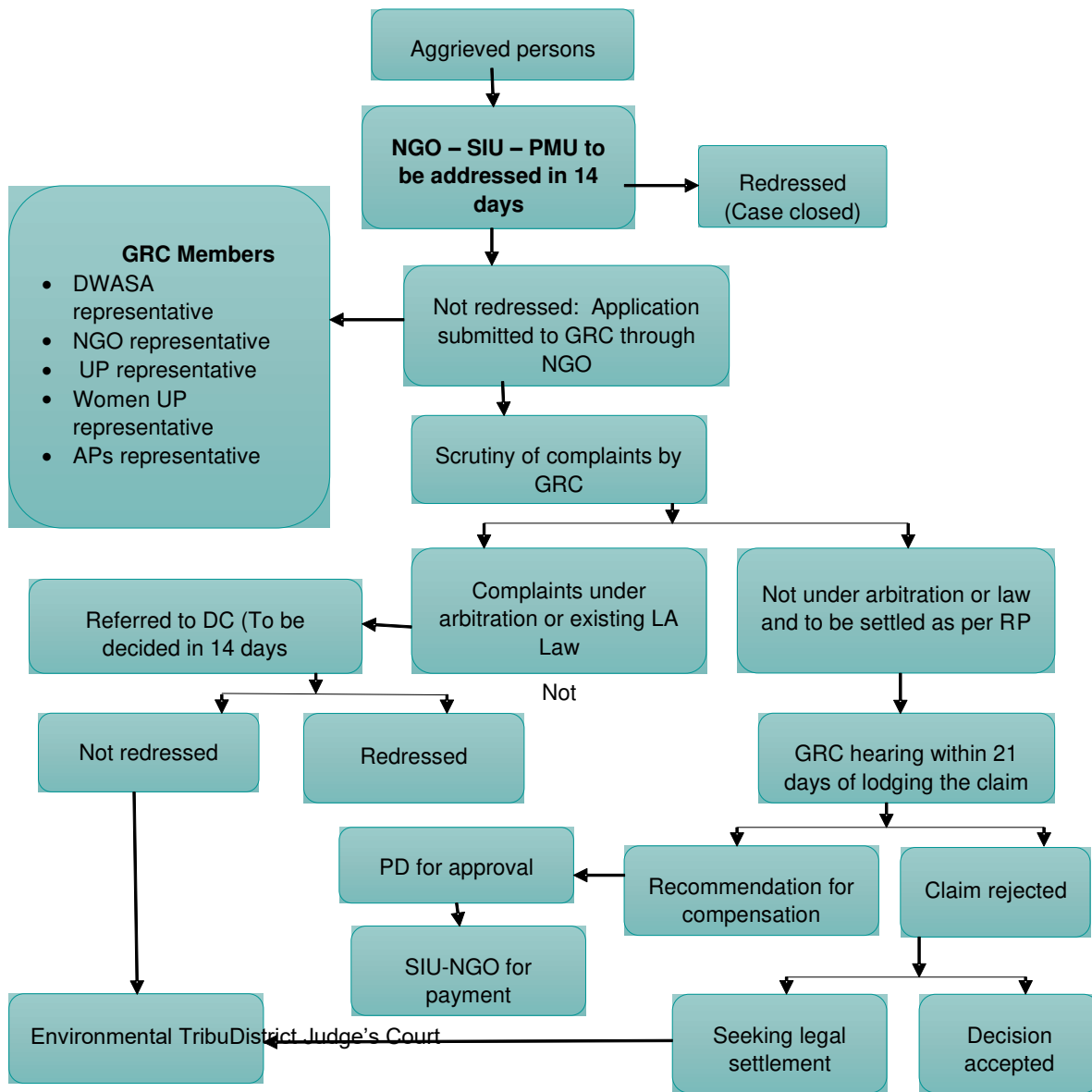
| Steps  | Action Level                 | Process   |
|--------|------------------------------|---|
|        |                              | produce documents supporting his/her claim. The PD with the assistance of the Resettlement Experts, MDSC will review the proceedings of the GRC hearing and convey its decisions to the aggrieved AHs within two weeks after receiving the complaint.   |
| Step 4 | Decision from PD             | If the resolution from PMU fails to satisfy the aggrieved AHs, they will facilitate to forward their case for further review and settlement with the office of the Chief Engineer, DWASA at Dhaka. The aggrieved AHs will submit the petition with all documentary evidences of complaints and the resolution proceeding of step 2 and 3 within two weeks after the decisions from the PMU. |
| Step 5 | GRC Minutes<br>Communicating | The GRC minutes, approved by the project director, will be received at the conveners' office. The approved verdict is communicated to the complainant DP in writing.  |
| Step 6 | Decision from Court          | If the grievance redress system fails to satisfy aggrieved AHs, they can go/pursue further action by submitting their case to the appropriate court of law at the District level.   |

### Approval of GRC and Entitlements of GRC Members

46. Upon formation, all GRC members will attend a training and orientation meeting prior to commencement of their work. The training will be conducted by the project staff and consultants/Resettlements Experts.
47. The GRC members (except DWASA and DORP representative) will be entitled to Tk.1000/meeting as honorarium from the implementing budget. Light snacks/refreshments will be provided during the meetings under the RP budget. DORP will make necessary stationery and other logistic available.
48. The Project Director, PMU, DESWSP will finally approve any decisions and proceeding of the GRC meetings. The approved GRC decisions will be implemented on site within the framework of the Resettlement Plan.
49. The details procedures for redress of grievances and the appeals process will be shared and documented.
50. The GRC could hear the grievances once in 15 days. Since the entire resettlement, process has to be completed before construction works starts. The GRC could meet more than once in every 15 days depending upon the number of such cases. The GRC will inform the concerned AHs of their decisions within 21 days of the hearing of the grievances. The GRC will continue during the whole construction period.

**Figure II.3: Grievance Redress Mechanism (GRM)**

49z-9zDFtX



**Grievance Redress Monitoring**

51. The Deputy Project Director (Resettlement), PMU, DESWSP will keep records of all the grievances and their redress in monthly cumulative formats, which are to be signed by the Convener of the GRC. The format will contain information on the number of grievances received, resolved, and number of unresolved grievances. The monitoring information and findings on grievances will be included in the quarterly report to ADB.

## Summary

52. The basic concern of the affected people is to get proper compensation for their lost land and livelihoods in a smooth manner without the interference of any middlemen. The discontents of the locals can be mitigated following proper resettlement plan, which has already been prepared as a separate document.
53. The overall objective of the GRM is to create an effective communication channel between stakeholders to ensure a timely and effective bilateral feedback mechanism to address any environmental (terrestrial and aquatic) grievance redress submitted for the project, including from community members, construction workers and staff, local enterprises and other stakeholders, and awareness-raising the public about P1 project and the availability of the GR mechanism. The procedure for resolving grievance requires their resolution, conducted in the spirit of mediation between the parties, and must comply with the spirit of ADB standards and practices. The workers can also go the GRC for any issues and concerns during P1 project implementation.

### E. Grievance Redress Committee Members in PMU

54. Following ADB Safeguard Policy Statement (SPS), 2009 established time bound grievance committees together with procedures at three levels to address or resolve unusual incidences occurs during implementation of the project activities. The solution of incidences would be based on the complaints raised from APs and community people. In case of any unsettle dispute, GRC through submission of formal reference from DWASA will resolve the problem.



### Formation of GRC

55. Grievance Redress Committee (GRC) constituted comprising of a panel of five members; 1st is DWASA representative, 2nd MDSC representative 3rd DWASA Representative as well as the other two are also from DWASA Safe Guard Officer (Social & Gender) as member Secretary.
56. The GRC under ICB Package 1 is as below:

### GRC Composition

| S. I | Name                                  | Designation at GRC | Institution       | Designation                       |
|------|---------------------------------------|--------------------|-------------------|-----------------------------------|
| 1    | Executive Engineer, DESWSP            | Convener           | DWASA             | EE, DESWSP                        |
| 2    | Resettlement Specialist               | Member             | Consultant (MDSC) | Resettlement and Awareness Expert |
| 3    | Assistant Engineer                    | Member             | DESWSP<br>DWASA   | AE DESWSP                         |
| 4    | Assistant Engineer (Female)           | Member             | DESWSP<br>DWASA   | AE DESWSP                         |
| 5    | Safeguard officer (Social and Gender) | Member Secretary   | DESWSP<br>DWASA   | Safeguard Officer (S&G) DESWSP    |

57. The composition of GRC members at PMU level is below:

|  |  |  |
|--|--|--|
|   | <b>Office of the Project Director</b><br>Dhaka Environmentally Sustainable Water Supply Project (DESWSP)<br>Dhaka Water Supply and Sewerage Authority<br>WASA Bhaban, 98, Kazi Nazrul Islam Avenue (9 <sup>th</sup> Floor)<br>Kawran Bazar, Dhaka-1215<br>Web site- <a href="http://www.deswsp-dwasa.com">www.deswsp-dwasa.com</a> , Email: <a href="mailto:pddeswspgwt@gmail.com">pddeswspgwt@gmail.com</a> , Fax & Tel:88-02-8189095 | <div style="border: 1px solid black; padding: 2px; text-align: center;">উন্নয়নের গণঅঙ্গ<br/>শেখ হাসিনার মশায়র</div><br><div style="text-align: right;">②</div> |
| Memo no: 46.113.618.00.00. GN- 97/DESWSP/ 1234   | Date: 22.08.2019   |  |
| <b>Office Order</b>  |  |  |
| <b>Sub: Formation of Environmental Safeguard Grievance Redress Committee (GRC) for Gandharbpur Water Treatment Plant related works under DESWS Project, Dhaka WASA .</b>   |  |  |
| With due regards based on subject mentioned this is to notify you that Environmental Safeguard Grievance Redress Committee (GRC) for Gandhorbpur Water Treatment Plant related works ( WTP, Intake Raw water transmission main , Finish Water transmission and distribution Feeder line ) of DESWSP the PMU has formed Environmental Safeguard Grievance Redress Committee (GRC) and approved the same by the competent authority. |  |  |
| <b>Environmental Safeguard Grievance Redress Committee (GRC) for Gandhorbpur Water Treatment Plant related works</b>   |  |  |
| <b>Sl.</b>   | <b>Name and Designation</b>  | <b>Position in GRC</b>   |
| 1.   | Md. Shafiqur Rahman, DPD, DESWSP, DWASA.   | Convener   |
| 2.   | Mostafizur Rahman, Executive Engineer, DESWSP, DWASA.  | Member   |
| 3.   | Md. Al-Amin, Executive Engineer, DESWSP, DWASA.  | Member   |
| 4.   | National Environment Expert (Representative from MDSC), DESWSP, DWASA.   | Member   |
| 5.   | Md. Saidur Rahman, Safeguard Officer (Environment), DESWSP, DWASA.   | Member Secretary   |
| 6.   | Representative from contractor of WTP related works  | Member   |
| <b>TOR of Environmental Safeguard Grievance Redress Committee (GRC) for Gandhorbpur Water Treatment Plant related works:</b>   |  |  |
| 1. Environmental Safeguard Grievance Redress Committee (GRC) will be established to ensure stakeholders' participation in the implementation process and fair compensation to vulnerable affected persons (APs) for environmental safeguard issues related effects.  |  |  |
| 2. The APs can also call upon the representative of contractor/ MDSC/ PMU to assist them in presenting their grievance or queries to the GRC.  |  |  |
| 3. The GRC will receive grievance cases from the affected persons through the representative of contractor/ MDSC/ PMU.   |  |  |
|   |  |  |
| GRC PMU  |  |  |



উন্নয়নের পথকে  
শেখ হাসিনার মূলমন্ত্র


**Office of the Project Director**

Dhaka Environmentally Sustainable Water Supply Project (DESWSP)  
Dhaka Water Supply and Sewerage Authority  
WASA Bhaban, 98, Kazi Nazrul Islam Avenue (9<sup>th</sup> Floor)  
Kawran Bazar, Dhaka-1215

Web site- [www.deswsp-dwasa.com](http://www.deswsp-dwasa.com) , Email: [pd@deswspgwtp@gmail.com](mailto:pd@deswspgwtp@gmail.com), Fax & Tel:88-02-8189095

4. Other than disputes relating to ownership right and award of compensation by the Deputy Commissioner (DC) under the Court of Law, GRC will review grievances involving all environmental safeguard related resettlement assistances, relocation, and other supports. Grievances will be redressed within 21 days from the date of lodging the complaints. In case of complicated cases requiring additional investigations it will be resolved within a period of one month.
5. Grievance of indirectly displaced persons and/or persons displaced during project implementation due to environmental effect will also be addressed by the GRC.
6. Where relocation of structure or vacating land of cultivation will be required the GRC will facilitate resolution of complaints regarding categorization of vulnerable affected persons, type of structures, and eligibility for compensation and assistance within the set guidelines and provisions of the resettlement plan.
7. Any complaints of ownership or other suits to be resolved by the judiciary system will not be resolved in GRC. GRC will resolve all complaints, grievance related to compensation entitled by affected persons.
8. The decisions of the GRC should be ideally be arrived at through consensus, failing which resolution will be based on majority vote. Any decision made by the GRC must be within purview of environmental policy framework of GOB, ADB's Environmental Safeguard Policy Statement.
9. A minimum of 4 (four) members shall form the quorum for the meeting of GRC.
10. If needed the GRC members may undertake field visit to verify and review the issues at dispute, including titles/share, reasons for any delay in payment or other related matters.
11. In case of resolution is not accepted by the AP, the grievances will be forwarded to the Project Director for final decision.

Working Area of the GRC: The concern committee will administer the stated ToRs.

  
Md. Mahmudul Islam  
Project Director  
DESWSP Project, Dhaka WASA.

**CC. (not order in seniority)**

1. DPD-1/2, DESWS Project, Dhaka WASA
2. Executive Engineer-1/2/3, DESWS Project, Dhaka WASA
3. Assistant Engineer,....., DESWS Project, Dhaka WASA
4. Safeguard Officer (Env)/ (S&G)....., DESWS Project, Dhaka WASA
5. Team Leader/ DTL , MDSC, DESWS Project, Dhaka WASA
6. National Resettlement Specialist/ Environmental Expert , MDSC, DESWS Project, Dhaka WASA
7. Team Leader, DORP, DESWS Project, Dhaka WASA
8. Team Leader EMA , DESWSP DWASA
9. Contractor Representative . GWT SNC

G File No.

## F. Procedures of resolving grievances

### Step 1

58. In case of any grievances, the complainant approaches to the Safeguard Implementation Unit (SIU) officials for clarification, or submits any formal complaints. The SIU will provide

clarification to the displaced persons (DPs) and try to resolve the problem at the local level with the involvement of SIU social safeguards officer, If not resolved.

#### **Step 2**

59. The SIU will recommend that APs submit their complaints to the GRC. The SIU will assist the DPs filing the complaints and organizes hearing within 14 days of receiving the complaints.

#### **Step 3**

60. GRC to scrutinize applications determine whether the submitted cases are within their mandate. Cases related to compensation under the Acquisition & Requisition of Immovable Property Ordinance (ARIPO) will be referred to DC through DWASA, SIU for further review and action. GRC invites representatives of APs to attend the meetings.

#### **Step 4**

61. If within the GRC mandate and not related to compensation under ARIPO, GRC will hold session with aggrieved APs, minutes recorded. If resolved, the project director approves. If not resolved;

#### **Step 5**

62. The DP may accept GRC decision; if not, he/she may file a case in the court of law for further appeal.

#### **Step 6**

63. The GRC minutes, approved by the project director will be received at the conveners' office.

64. The approved verdict is communicated to the complainant AP in writing. APs will be able to submit their grievance/complaint about any aspects of resettlement plan implementation and compensation. Grievances can be shared with DWASA verbally or in written form, but in case of verbal form, the SIU representatives in the GRC will write it down at the first instance during the meeting at no cost to APs. The AP will sign and formally submit the written report to the GRCs at the office of the SIU, PMU, and DWASA in implementing the RP. Any AP can also take their case to the court following the country legal system at any stage without going through the project GRM, if they wish to do so.

65. The GRCs has been activated with power to resolve resettlement and compensation issues not to be addressed under legal suit in the courts. The GRCs is ready to receive grievance cases from the affected persons through the resettlement awareness. The NGO will assist the APs in lodging their resettlement complaints in a proper format acceptable to the GRCs after they get ID cards from DWASA or are informed about their entitlements and losses.

66. The appeal procedure and conflict resolution:

- (xi) All complaints from the APs will be received at the field office of the resettlement awareness SIU the member secretary of the GRCs, with a copy for the concerned City Corporation Ward Commissioner's representatives.
- (xii) The representative of the SIU in the GRCs, upon receipt of complaints, will inform the convener (DWASA representative) of the GRC and convener will organize a hearing session from the complainants in the concerned City Corporation/Word Commissioner office, where the complaint was received.
- (xiii) The GRC will review the proceedings and pass verdicts to convey to the concerned AP through the SIU. If there are matters relating to arbitration or

- compensation under the existing law, the matter will be referred to the DC and the courts. The DC has to make decision within maximum of 14 days.
- (xiv) The GRC will settle the disputes within a maximum of 21 days of receiving the complaints from the APs.
  - (xv) 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.
  - (xvi) affected people can go to the GRC for any environmental concern
  - (xvii) all workers can go the GRC for any issues and concerns during project implementation

67. In the event that the established GRM is not in a position to resolve the issue, the affected person can also use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB Headquarters or the ADB Bangladesh Resident Mission (BRM). The complaint can be submitted in any of the official Languages of ADB's DMCs. The ADB Accountability Mechanism information will be included in the Project Information Disclosure (PID) to be distributed to the affected communities, as part of the project GRM.

### **III. Information on the Progress and Quality Control**

68. The Monthly and Quarterly Progress Reports of MDSC; The contractor's reports include MPR- January to June 2020, EMP, Environmental Management System, Management Plan Health and safety System, and Health and safety Plan provides detailed information on placement of construction objects, and measures for environmental protection, environmental monitoring, etc.

#### **A. Salient Features of Project Implementation in Reporting Period**

69. During this period, the following works have been performed:

- i. The Contractor has arranged site camps to Intake and WTP Site,
- ii. Establishment of construction camp at both sites;
- iii. Construction of on-shore platform and construction of sheet piling starts at Intake;
- iv. Dyke construction is filled by sand at both Intake and WTP site.
- v. Reservoir excavation and backfilling,
- vi. DSM for chemical building area and ground reservoir.
- vii. Noise and air quality monitoring has been conducted internally by GWT but no independent monitoring done. GWT are asked to do.
- viii. COVID-19 issue.
- ix. Resolve the existing graveyard issue at WTP by relocation within the DWASA land.
- x. Meetings with various utility authorities were initiated by the Engineer and discussions are continuing between the Contractor and the authorities regarding identification and relocation of services that will be affected by the works.

#### **B. Construction Activities and Project Progress during the previous 6 Months**

70. During this period, civil works progressed in the form of preliminary land preparation, grading, topsoil removal, workers camp, installed machinery and equipment, starts of DSM works to P1 intake and WTP.

## **Construction works**

71. The construction works includes the following:

- i. Stripping of soils for the RWT Main and dismantling of rural asphalt road at Bisnondi, Araihasar, Narayanganj have commenced.
- ii. Land acquired for the RWT Main are mostly agricultural land
- iii. Relevant warning signs installed
- iv. Removal of the topsoil layer was conducted in proposed intake and GWTP areas and need to re-cultivation after construction.
- v. Drainage system ensured to avoid the formation of stagnant water, all the sites were equipped with proper drainage, watercourses and gateways
- vi. Removal of bushes
- vii. Base camp preparation.
- viii. Preparation of access road and internal road in Intake and WTP.
- ix. Temporary fencing to Intake and WTP area.
- x. DSM of all the on-shore structures are completed including tests at Intake and ongoing to W40 & W 50 at WTP.
- xi. Start of sheet piling at Intake.

## **Offices, Construction camps and Settlement of Workers**

72. The contractors had hired a two-story building for their workers and staff's accommodation adjacent to the intake site. They have completed the construction of Site camps and shifted to inside accommodation in this reporting period.

## **Construction sites and Facilities**

73. Preparatory works continued during the reporting period. Preparation of concrete access road and internal road in Intake and WTP has been conducted in this period.

## **IV. Environmental Management and Monitoring**

### **A. Air Quality**

74. No third-party air quality measurements were taken although MDSC has reminded GWT several times in this regard. GWT did implement air quality monitoring on his own. The contractor also applied water spray to mitigate dust. They recorded these activities Appendix-G. The contractor has done air quality monitoring including temperature, Humidity, Formaldehyde (HCHO), TVOC (measure of volatile organic compounds that is mixture of air pollutants), Benzene (C<sub>6</sub>H<sub>6</sub>), PM<sub>2.5</sub> (measure of fine particulate matter that reduce visibility), PM<sub>10</sub> (measure of respirable particulate matter), Carbon Dioxide (CO<sub>2</sub>). The air quality was improved to good from moderate in this quarter due to change in weather conditions, reduced construction activity due to COVID19 restrictions, type of work and implementation of mitigation measures. Air quality monitoring could not be conducted by independent Consultant as originally intended due to COVID19 risk.

### **B. Noise and Vibration**

75. Noise monitoring has not been implemented by subcontractor (Enviro Consultants) during the reporting period due to COVID19 issue, but by GWT itself. (Appendix H) During the reporting period, the contractor recorded Noise Level at 86 predetermined sites with maximum average

of 110 db and minimum average of 43 db. The record reveals an increase in noise level from January towards June.

### **C. Water Quality**

76. Water quality survey was conducted by the firm Onushandhani Creeds Limited of Mohakhali, Dhaka on behalf of DWASA from January to June. Due to COVID-19 outbreak, the survey was not done from February to May. The measurements were taken at Intake Point in Bishnondi of Meghna River, Araihasar at different depth. Measurement of physicochemical parameters were temperature, PH, salinity, conductivity, turbidity, dissolved oxygen (DO), total dissolved solids (TDS), Ammonia (NH<sub>3</sub>), total hardness and color at field during weekly sampling. During monthly sampling, composite sample were sent to DPHE Central Laboratory for the analysis of a wide range of water quality parameter such as Nitrate, Nitrite, COD, TSS, BOD, Phosphate, Alkalinity, Ammonia, Total Hardness, Arsenic, Iron, Manganese and Aluminum. Field parameters were tested as same as weekly sample parameters. The BOD and COD values have been found 2mg/l and 4mg/l respectively during monthly sample analysis in January. The concentration of ammonia concentration is above the limits in the month of January . However, tendency of ammonia concentration to increase with respect to time has been found in the last four months. In conjunction, decreasing of dissolved oxygen (DO), reduction of pH value, increase of turbidity, increase of color unit were found. Water quality reports of January 2020 have been attached to the Appendix I.

### **D. Flora and Fauna**

77. During this period, no tree was cut but borrow pit was filled at WTP area. No impact on flora and on fauna could be identified as borrow pits show already human impact.

### **E. Waste management**

78. During this period, a total of nearly 2000 kg (approx.) kitchen (food) waste, 4500 litres (approx..) hazardous (flammable liquid) waste and 4000 kg (approx..) non-hazardous (general) waste generated at sites and disposed of at approved municipal/ government disposal sites. In addition to that 9500 kg (approx.) of scrap, like waste rebar, metal sheets and wood pieces have been sold to third parties. Moderate amount of household waste was generated. Hazardous waste and non-hazardous waste have been disposed by licensed contractor.(Appendix J).

### **F. Health and Safety**

79. The Contractor's HSE Management System & Plans are in place. There was toolbox talking prior to work every day before start of the works. During the reporting period, in respect of health and safety, emphasis has been given in managing COVID-19 situation at sites. The following measures were in place

- Display COVID-19 awareness banners at both Intake and WTP sites and nearby communities;
- Giving out awareness flyers;
- Enforcing the use of mask for all;
- Restricted access to site for visitors;
- Screening of body temperature of site staff and visitors;
- Enforcing hand sanitizing for all and disinfecting vehicles;

- Campaign of World Environment Day
- CPR Demonstration

The reviewed checklists are attached in Appendix E.

### G. Activity of Emergency Crew

80. During this period, activity of emergency crew was not required.

### H. Public Consultation and FGD meeting

81. The consultation process so far has solicited inputs from a range of stakeholders, including elected representatives, residents at the project locations, and project affected persons. Total two consultation meeting was held during this period. The number of participants were:

**Table IV.1: Summary of consultation meetings**

| PC Meeting Date | Number of Female | Total Participants |
|-----------------|------------------|--------------------|
| 15-03-2020      | 49               | 43                 |
| 16-03-2020      | 18               | 17                 |

82. Details of Consultation meetings are provided in Appendix-B. No FGD meeting has been conducted during this period.

### I. Trainings, Workshops, Seminars

83. Training on H&S has been implemented on 24 February, 2020 . In H&S training session different topics were discussed such as basic safety, purpose of safety, history of major accidents in Bangladesh, factors concerning occupational safety, hazards impeding occupational safety and Safety measures. The participant lists are shown in Appendix C.

84. Environmental training has been conducted on 28 and on 29 January. The theoretical session on 28 January included the following topics:

**Table IV.2: Environmental Training – theoretical session on 28 January 2020**

|  |
|--|
| • Bangladesh Environment Policy & its Relevance to DESWSP  |
| • Introduction of ADB, environmental guidelines  |
| • Introducing REA, IEEs, EIAs & site specific EMPs - Environmental Checklist                           |
| • Project Cycle and Environmental Assessments  |
| • Introduction of Environmental Issues of Package P1   |
| • Environmental monitoring and mitigation based on site specific EMP for P.1, environmental inspection |

|   |
|---|
| <ul style="list-style-type: none"><li>• Health and Safety</li></ul>                                     |
| <ul style="list-style-type: none"><li>• Discussion - Summary of the Day and Course Evaluation</li></ul> |

85. The construction sites WTP and intake have been visited on 29 January. The site visit program was as follows:

### **Sources of pollution**

- toilets and sewage disposal
- storage of construction and domestic waste
- storage of fuel tanks (temporary tanks), hazardous substances (paint, solvents, lubricants)
- storage of generators, cars, excavators, bulldozers
- equipment maintenance areas

designated fuelling areas

### **Pollution prevention**

- dust and noise prevention
- demonstration of water spray
- demonstration of noise measurement
- erosion prevention of stockpiles
- clean up kits for hazardous waste (e.g. used oil)

### **Documents**

- sewage management plan
- traffic management plan
- emergency plan (poster)
- H&S poster
- log book
- protocol of incidents
- documentation of tree cuts

This document is confidential and shall be used only for the purpose on the Gandharbpur Project

- waste management plan
- layout plan of the camp site (storage areas, camp facilities)
- disaster management plan (cyclone, flooding, tornado)

## Others

- drinking water supply of the camp
- signing
- fire fighting equipment
- occupational H&S standards and management
- storage of H&S equipment
- sampling locations for environmental monitoring
- storage of topsoil

**Table IV.2: Summery of Trainings**

| Kind of training                       | Training date    | Number of females | Total participants |
|--|------------------|-------------------|--------------------|
| Health and Safety                      | 24 February 2020 | 0                 | 3                  |
| Environment –<br>theoretical session   | 28 January 2020  | 2                 | 26                 |
| Environment<br>construction site visit | 29 January 2020  | 2                 | 26                 |

**Table IV.2: Summery of Trainings**

Attendance sheets of the environmental training can be found in Appendix C.

## J. Grievance Redress Mechanism - Complaints

86. The second meeting of the GRC took place on 27 January 2020. 17 grievances and complaints have been discussed and addressed. All complains are related to resettlements and none of them relate to environmental issues. The minutes of meeting and participants list has attached in Appendix D.

## K. Environmental Management System (EMS), Site-specific environmental management plan (SSEMP), and work plans

This document is confidential and shall be used only for the purpose on the Gandharbpur Project

87. In accordance with the IEE (Prepared for GoB), and the accompanying Environmental Monitoring Plan (EMP), the Contractor is required to undertake parametric measurements and observations on air quality, water quality, noise and socio-cultural resources. Locations for the measurements are identified in the IEE. Accordingly, the monitoring of water quality was conducted by the firm "Onushandhani Creeds Limited of Mohakhali, Dhaka. Air quality and Noise monitoring was implemented in addition by GWT (Appendix-H).

#### **L. Site Inspections and Audits**

88. During this period, temporary structure construction has finished and permanent work started e.g. DSM, Reservoir base to P1 intake and WTP. The construction of temporary jetty and intake offshore has been done and off-shore work has started with sheet piling installation. Therefore, environmental inspector's site visit and reviews were frequently conducted. During the supervisions, chemical storage facility, and sanitation and hygiene facility have been improved, Dust control has been conducted as required. Storage of onstruction material has been improved. Stagnant water at several places was removed to prevent water borne diseases. The review details are attached in Appendix A.

#### **M. Notice of Non-Compliance**

89. During this period, not required.

#### **N. Corrective Action Plan for next 6 Months**

90. During this period, not required.

### **V. Conclusions**

91. During this period from January to June, the Contractor has progressed with construction works. Therefore, the environmental monitoring focused on contractor's ongoing activities. As for this project, the "SAEMR for January-June 2020" was prepared by MDSC Consultant in July-2020. This report is based on available information of the project and periodic site inspection done during the ongoing construction stage.

92. Since mid-June, the Contractor progressed their works by excavating and backfilling of pond works, platform for chemical building, ground reservoir by DSM, WTP mock-up (scaffolding and base slab reinforcement), sheet piling at Intake and construction of dyke for Intake on-shore platform, therefore, several environmental monitoring was done during this period.

93. Finally, the construction works carried out by the Contractor-SUEZ for environmental protection was assessed moderate by the environmental team of MDSC-MML. During field visit it was found that dust generates and GWT suppressed dust by spraying water regularly. The chemical storage and handling were properly maintained and improved a lot. However, the Contractor has also improved following issues (a) all relevant rules for protection of health and safety of the workers, and community was followed, and the Contractor was aware of his responsibility; (b) proper restriction signs and other methods are applied to prevent unwanted entry of people to the construction area; (c) training for workers on appropriate methods for handling asbestos materials; (d) use of individual protection means, PPE, first-aid support; (d) prior health check-ups of workers involved in the construction works. Contractor has implemented emergency rescue and evacuation plan for ensuring immediate and appropriate

actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed; (e) smoking shall permitted only in designated areas, etc. In addition, the Contractor should comply with EMP requirement.

94. However, no national law violation has been detected by the environmentalists of MDSC during this period. There was no serious environmental problem identified at this early construction works especially on establishment of construction camp, mobilization of resources, and land clearing.
95. Water quality monitoring has been carried out in January. Noise monitoring and air quality monitoring has been carried out by the contractor. Dust suppression has been applied regularly by the contractor through water spray. Air quality and noise monitoring of independent subcontractor is due.

# Appendices

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# **A. Findings of P1 Site Inspection, during Jan - June 2020**

## **A.1 Disposal of waste**

96. GWT is disposing the wastes to local waste collectors. Agreements was done with GWT representative and local waste collectors for collecting and disposing of waste. The agreement document by local language is attached bellow.



# তারাব পৌরসভা

রূপগঞ্জ, নারায়ণগঞ্জ।  
স্থাপিত : ২০০২ খ্রীঃ

স্মারক : ১৬৩৩-৩৩৩/১৯৭/২০১৯/৩৬৬২

তারিখ : ১৯/১১/১৯

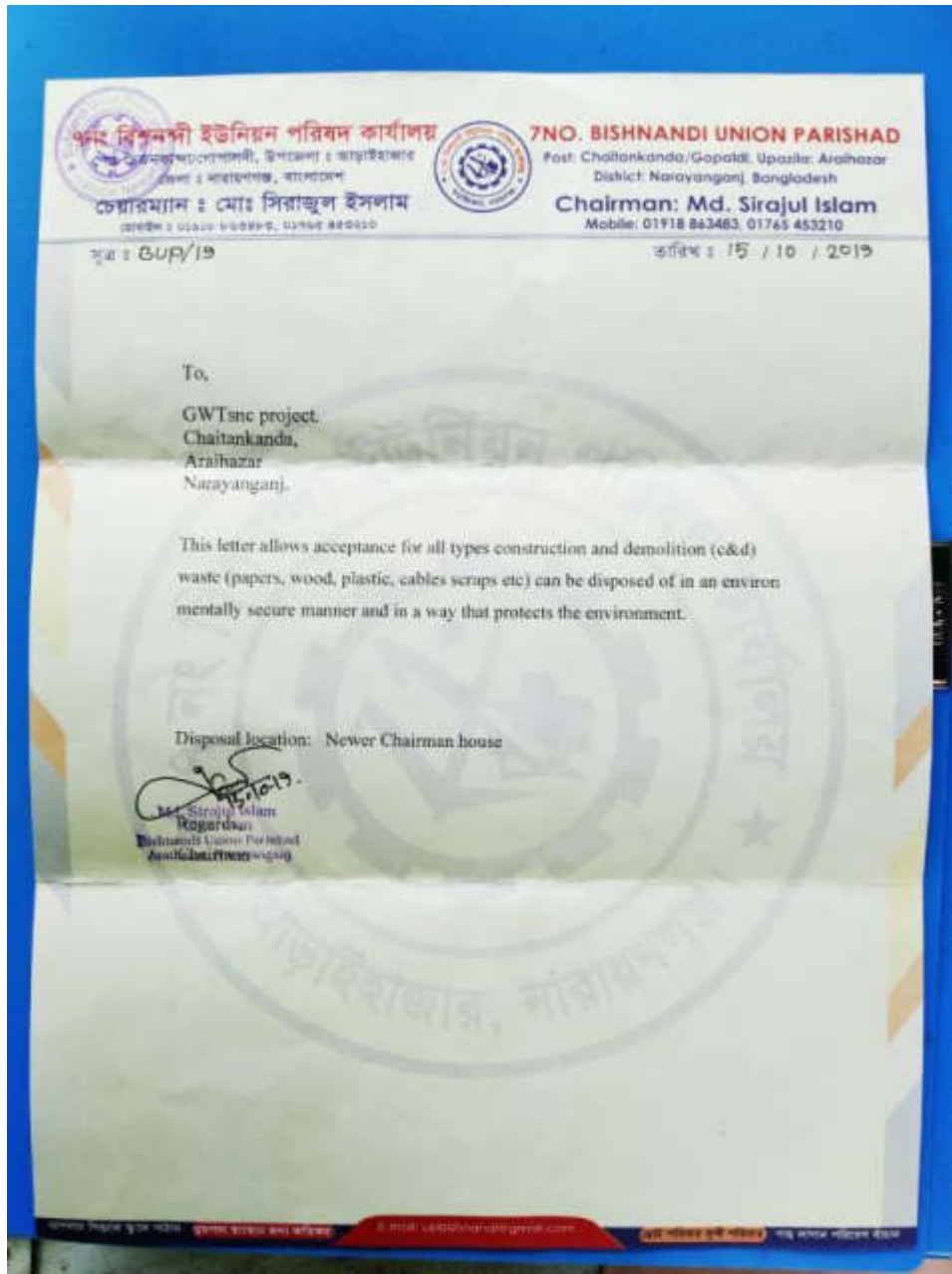
## প্রত্যয়ন পত্র

এই মর্মে প্রত্যয়ন করা যাচ্ছে যে, ওয়াসা কর্তৃক গৃহিত প্রকল্প DESWTP এর অধীন G.W.T.P. বিভিন্ন কাজ Abdullah Trade International এর মাধ্যমে বাস্তবায়িত হচ্ছে। এরই অংশ হিসাবে Waste Management কাজটি ধার্যকৃত ফি পরিশোধ সাপেক্ষে উক্ত প্রকল্পের স্ট বর্জ্য তারাব পৌরসভার বাহন কর্তৃক সংগ্রহ পূর্বক অপসারণ করা হচ্ছে।



১৯.১১.১৯  
মোঃ নূরুল ইসলাম  
প্রধান নির্বাহী কর্মকর্তা  
তারাব পৌরসভা, নারায়ণগঞ্জ।

C



## A.2 Off-shore platform construction and sheet piling work start

97. Off-shore platform completed and start o sheet piling.

Photo A.1: Offshore Platforms construction at intake Site, 27 February 2020



### **A.3 Construction of DSM work**

98. Construction of DSM works starts at Intake and WTP.

**Photo A.2: DSM construction at intake Site, 19 January 2020**



**Photo A.3: DSM construction at WTP Site, 15 February 2020**



**Photo A.4: DSM construction at WTP Site, 14 June 2020**



**Photo A.4: Pouring concrete at tower crane at WTP Site, 30 May 2020**



#### **A.4 Safety Inspections**

99. Training & awareness program like road traffic safety training for drivers and machine operator, toolbox talk, campaign of world environmental day, CPR demonstration was ongoing throughout the reporting period. Also, COVID-19 awareness campaign is following with regular screening of body temperature, enforcing use of mask, apply restriction to access, enforcing hand sanitizing and vehicles disinfection and response demonstration was done in this period.

**Photo A.5: Training and awareness program, February 2020**



**Photo A.5: Safety Inspection meeting, 9 March 2020**



Photo A.6: Body temperature check, 15 April 2020



Photo A.6: Hand sanitizing and vehicles disinfection, 19 May 2020



### A.5 Fuel and hazardous material storage

100. Fuel and hazardous material storage are good at both sites and Contractor was asked to maintain this.

**Photo A.6: Storage of fuel and hazardous to WTP and intake Site, June 2020**



### A.6 Other issue

101. Log book or site diaries are being maintained on site. Site has maintain log sheet and safety forms for recording issue occurring on site. Site induction set up is present, quality of premises has improved. During this period, it was found that the temporary work has finished and permanent works has started, water spraying is done at regular interval to suppress dust. GWT sprays water as requires per day. Asked to ensure minimum dust visibility. As rainy season appears, asked to prevent deposition of soil into watercourse due to rain water runoff.

**Photo A.7: Image of Intake Site, 27 June 2020**



**Photo A.8: Image of WTP Site, 27 June 2020**



## B. Site Meetings

### Minutes of Public Consultation meeting,

**Location:** Bright Model School and College, Bawnia Bazar, Dhaka.

**Date and Time:** 15 March 2020, at 9:30 AM

### Consultation Attended by:

- Saidur Rahman, Environmental Safeguard Officer, DESWSP, DWASA
- Md. Shahid Zaman, Environmental Specialist (Consultant), Asian Development Bank
- Syed M Latif, Environment Specialist, MDSC, DESWSP
- Rahat Hasan, Environmental Inspector, MDSC, DESWSP
- Roksana Begum, Social Safeguard Specialist, Environmental Inspector, MDSC, DESWSP

### Information Disclosed during Consultation:

- Need for the Project
- Description of the Project
- Construction Work
- Probable Impacts due to the Project (before, after and during construction)
  - Air emission and dust pollution
  - Noise pollution
  - Waste
  - Disruption of water supply
  - Road excavation
  - Tree cutting
  - Traffic safety
  - Community health and safety
  - Worker health and safety
- Grievance Redress Mechanism

### Public Query Answered by:

- Saidur Rahman, Environmental Safeguard Officer, DESWSP, DWASA
- Md. Shahid Zaman, Environmental Specialist (Consultant), Asian Development Bank
- Syed M Latif, Environment Specialist, MDSC, DESWSP
- Roksana Begum, Social Safeguard Specialist, Environmental Inspector, MDSC, DESWSP
- Rahat Hasan, Environmental Inspector, MDSC, DESWSP

## Summary of Public Consultation Issues and Response:

| SL. | Issues Raised  | Reply from Consultant   |
|-----|--|---|
| 1   | Participants appreciated initiation of this project by the Government and stressed upon early implementation.  | Consultant noted the point of optimism.   |
| 2   | Since the source is surface water, thus raw water should be treated properly before distributing to the household.                                   | A surface water treatment plant will be constructed to purify the raw surface water prior to distribution. Water quality of treated water complies with the Bangladeshi standards for drinking water and DWASA will monitor the treated water quality periodically.   |
| 3   | Four peripheral rivers including Shitalakkha have already been polluted, how will you protect the Meghna river from being polluted?                  | Government is planning to declare total of 119 square kilometers of Meghna river as Ecologically Critical Area (ECA) to protect the river as drinking water source. A guideline for environmental management in the ECA has also been formulated.   |
| 4   | Existing water supply is groundwater based using submersible pump bored by the owners, what will be happened to these existing pumps?                | Groundwater aquifer of Dhaka city is being depleted rigorously due to over extraction of groundwater using pumps, as a result, the project is implemented to reduce the amount of groundwater abstraction. However, existing pumps can be used by paying DWASA.   |
| 5   | Expressed the need of consideration of sewerage and waste water removal facility for Bawnia?   | Sewerage facility is out of our current project scope but it is being noted for future scope. However, all drainage and effluent from campsites, storage areas, workshops shall be captured and treated before being discharged into the drainage system.   |
| 6   | Pipe alignment will follow the ECB-Bawnia road which is narrow and remain congested by traffics, what measures will be taken during road excavation? | Construction work will be done at night to minimize traffic disturbance as low as possible. Moreover, installation of pipes will be conducted by trenchless methods where applicable, which require small-scale excavation at access points only, and will thus result in minimal disruption. However, traffic management plan including traffic signaling system will be developed and local communities will be informed in advance about the construction programme. |
| 7   | Utility facilities should be identified before commencing construction activity.   | All existing utilities like pipelines, telephone/gas/electric cables, poles etc. will be identified before construction and a contingency plan for service interruption to be prepared by the contractor.   |
| 8   | Due to construction of the Project, existing environment will be imbalanced.   | Existing environment will be affected but it is manageable through implementation of appropriate mitigation measures. EMP will be consisting of all aspects of existing environmental issues.   |
| 9   | How will the project affected persons (PAPs) make complaints against non-compliances during construction?  | Grievance redress mechanism will be established to mitigate any environmental impacts due to construction activity. Clear contact instructions and numbers will be provided at public places to file grievances. Moreover, supervision consultant including EHS expert will be appointed at site to supervise the implementation activity of the environmental management plan during construction.   |
| 10  | What measures will be taken for community health and safety during construction?   | A range of safety measures including adequate lighting, temporary fence, reflectorized barriers and caution signboard will be placed to minimize the risk for the local transport and   |

| <b>SL.</b> | <b>Issues Raised</b> | <b>Reply from Consultant</b>  |
|------------|----------------------|---|
|            |                      | pedestrian movement. Moreover, excavated section of the road will be covered with steel plates and in alleys with wooden plates for community movement. |

**Detail of the Participants:**

Dhaka Environmentally Sustainable Water Supply Project (DESWSP), Dhaka WASA

Public consultation meeting on Environmental issues at ICB 3.2 area

Date: March 15, 2020,

Sunday, Time: 09.30 a.m.

Venue: Bright Model School and College, Bawnia Bazar, Dhaka-1230.

**Attendance Sheet**

| Sl. No. | Name                  | Profession/ Organization with Designation | Phone & e-mail             | signature          |
|---------|-----------------------|---|----------------------------|--------------------|
| 1       | Nazma Akter           | House wife                                |                            | <i>[Signature]</i> |
| 2       | Momela                |   |                            |                    |
| 3       | Shirna                |   |                            |                    |
| 4       | Sayedul Islam         | Business                                  | 01810421779                | <i>[Signature]</i> |
| 5       | Lev: <i>[unclear]</i> |   | 01684970086                | <i>[Signature]</i> |
| 6       | MD Samul Hossain      | Business                                  | 01677419541                | <i>[Signature]</i> |
| 7       | Kamal Hossain         | Business                                  | 01811-576893               | <i>[Signature]</i> |
| 8       | Halal Uddin           | Business                                  | 0168-4970085               | <i>[Signature]</i> |
| 9       | MD HARUN-AR-RASHID    | Business                                  | 01711152189<br>01921514377 | <i>[Signature]</i> |
| 10      | MD HARUN NOOR RASHID  | Business                                  | 01760755084                | <i>[Signature]</i> |
| 11      | <i>[unclear]</i>      |   | 01747685805                | <i>[Signature]</i> |
| 12      | <i>[unclear]</i>      |   | 02926028220                | <i>[Signature]</i> |
| 13      | FEROZ KHAN            | Business                                  | 01812710560                | <i>[Signature]</i> |
| 14      | <i>[unclear]</i>      | <i>[unclear]</i>                          | 01914717659                | <i>[Signature]</i> |
| 15      | <i>[unclear]</i>      | <i>[unclear]</i>                          | 03900000000                | <i>[Signature]</i> |
| 16      | <i>[unclear]</i>      | <i>[unclear]</i>                          | 01811695936                | <i>[Signature]</i> |
| 17      | <i>[unclear]</i>      | <i>[unclear]</i>                          | 01718094686                | <i>[Signature]</i> |
| 18      | MD ISHAK              | <i>[unclear]</i>                          | 01861612733                | <i>[Signature]</i> |
| 19      | MONIR                 | Ex Airman                                 | 01806780388                | <i>[Signature]</i> |
| 20      | Shahidullah           | Teacher                                   | 01917008113                | <i>[Signature]</i> |
| 21      |                       |   |                            |                    |

Dhaka Environmentally Sustainable Water Supply Project (DESWSP), Dhaka WASA

Public consultation meeting on Environmental Issues at ICB 3.2 area

Date: March 15, 2020,

Sunday, Time: 09.30 a.m.

Venue: Bright Model School and College, Bawnia Bazar, Dhaka-1230.

Attendance Sheet

| Sl. No. | Name           | Profession/ Organization with Designation | Phone & e-mail | signature |
|---------|----------------|---|----------------|-----------|
| 02.     | Salma Arand    | Housewife                                 | 01741999817    | Salma     |
|         | Taslima Akter  | ✓   | 016 32096853   | S. Akter  |
|         | Tania          | ✓   | 01886056698    | Tania     |
|         | Thamanna Akter | ✓   | 01821198117    | Thamanna  |
|         | মুকতা          | ✓   | 01632652886    | মুকতা     |
|         | MUKTA          | ✓   | 01799893003    | MUK       |
|         | Mahinur        | Teacher                                   | 01923203936    | Mahinur   |
|         | Shaena Akter   | "   | 01407962682    | Shaena    |
|         | Sonia Sajjad   | "   | 01939014200    | Sonia     |
|         | Bithi Akter    | "   | 01626336525    | Bithi     |
|         | Nasrin Akhter  | "   | 01727640786    | Nasrin    |
|         | Shamima Jasmim | "   | 01400-570343   | Shamima   |
|         | Maharun nessa  | "   | 01998364913    | Maharun   |
|         | Lata           | "   | 01635029744    | Lata      |
|         | Prokash Akter  | "   | 01787243864    | Prokash   |
|         | Rahim Khanam   | "   | 01685810643    | Rahim     |
|         | পপোনা          |   | 01310222151    | পপোনা     |
|         | Si ১০০/১৬৫     |   |                | Si ১০০    |

Md. Saidur Rahman  
Safeguard officer (Env)  
DESWSP, DWASA

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Page 2

Dhaka Environmentally Sustainable Water Supply Project (DESWSP), Dhaka WASA

Public consultation meeting on Environmental issues at ICB 3.2 area

Date: March 15, 2020,

Sunday, Time: 09.30 a.m.

Venue: Bright Model School and College, Bawna Bazar, Dhaka-1230.

Attendance Sheet

| Sl. No. | Name                     | Profession/ Organization with Designation | Phone & e-mail                             | signature   |
|---------|--------------------------|---|--|-------------|
|         | Md. Mahmudul Hasan Kabir | ET, M.D.S.C.                              | md.hassan@wastawater.com                   | [Signature] |
|         | SYED LATIF               | Environment Specialist<br>M.D.S.C.        | latifsyed-hq@wastawater.com                | [Signature] |
|         | Rukhsana Begum           | Social Development & Gender Specialist    | 01711824538<br>rukhsana2003@wastawater.com | [Signature] |
|         | Md Shahid Zaman          | Env. Specialist<br>ADP                    | 01715-298920                               | [Signature] |
|         |                          |   |  |             |
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**Location:** Hurdco International School, Basundhara Residential Area, Dhaka.

**Date and Time:** 16 March 2020, at 11:30 AM

**Consultation Attended by:**

- Saidur Rahman, Environmental Safeguard Officer, DESWSP, DWASA
- Tofazzal Hossen, Social Safeguard Officer, DESWSP, DWASA
- Md. Shahid Zaman, Environmental Specialist (Consultant), Asian Development Bank
- Syed M Latif, Environment Specialist, MDSC, DESWSP
- Rahat Hasan, Environmental Inspector, MDSC, DESWSP
- Roksana Begum, Social Safeguard Specialist, Environmental Inspector, MDSC, DESWSP

**Information Disclosed during Consultation:**

- Need for the Project
- Description of the Project
- Construction Work
- Probable Impacts due to the Project (Before, After and During the Construction)
  - Air emission and dust pollution
  - Noise pollution
  - Waste
  - Disruption of water supply
  - Road excavation
  - Traffic safety
  - Community health and safety
  - Worker health and safety
- Grievance Redress Mechanism

**Public Query Answered by:**

- Saidur Rahman, Environmental Safeguard Officer, DESWSP, DWASA
- Md. Shahid Zaman, Environmental Specialist (Consultant), Asian Development Bank
- Syed M Latif, Environment Specialist, MDSC, DESWSP
- Rahat Hasan, Environmental Inspector, MDSC, DESWSP

## Summary of Public Consultation Issues and Response:

| SL. | Issues Raised   | Reply from Consultant   |
|-----|---|---|
| 1   | Participants welcomed the proposed project but mentioned that local people must not be harmed.  | Consultant noted the point of optimism.   |
| 2   | Participants opined that project proponent should not compromise possible environmental issues in the name of development.                                    | Consultant is well aware about that and the meeting is also one of the approaches to identify environmental issues.   |
| 3   | Questionnaire survey can be carried out to identify the impacts in regards to construction activity.  | Consultants appreciated the suggestion and informed that various tools are being used to identify issues such as field/transect survey, one-on-one as well as focus group discussions etc.  |
| 4   | Utility relocation plan should be prepared before commencing construction.  | All existing utilities like pipelines, telephone/gas/electric cables, poles etc. will be identified before construction and a contingency plan for service interruption to be prepared by the contractor.   |
| 5   | Mentioned about strong coordination among relevant stakeholders.  | DWASA will sign MoUs with the relevant stakeholders (DNCC, RAJUK, TITAS Gas, BTCL, LGED, BREB, MRT, Railway etc.) prior to starting construction.   |
| 6   | Road section along the school area is very busy where traffic congestion is seen regularly, what measures will be taken during pipe laying in this busy road? | Construction work will be done at night to minimize traffic disturbance as low as possible. Moreover, installation of pipes will be conducted by trenchless methods where applicable, which require small-scale excavation at access points only, and will thus result in minimal disruption. However, traffic management plan including traffic signaling system will be developed for this busy road.   |
| 7   | Construction schedule should be disclosed to the local community as well as school authority.   | Community consultation will be arranged by the contractor before starting construction. Local community as well as school authority will be informed in advance about the construction programme.   |
| 8   | Concerns were raised over safety and security of the local community during construction phase of the Project.  | A range of safety measures including adequate lighting, temporary fence, reflectorized barriers and caution signboard will be placed to minimize the risk for the local transport and pedestrian movement. However, excavated road section will be covered with steel plates and in alleys with wooden plates for community movement and sprinklers will be used for dust suppression. Work camps will be under periodic monitoring to reduce any health concern. |
| 9   | How the project will redress any issue during construction?   | Grievance redress mechanism will be established to mitigate any environmental impacts due to construction activity. Clear contact instructions and numbers will be provided at public places to file grievances. Moreover, supervision consultant including EHS expert will be appointed at site to supervise the implementation activity of the environmental management plan during construction.   |
| 10  | Safeguard documents prepared for the project should be disclosed to the community.  | Environmental assessment report including EMP will be disclosed on ADB and DWASA website before starting construction. Moreover, contractor will also prepare SEMP and a copy of the SEMP shall be kept on-site during construction period at all times.  |

## Detail of the Participants:

|   |   |
|---|---|
| <b>Management, Design &amp; Supervision</b><br>Dhaka Environmentally Sustainable Water Supply Project (DESWSP), Dhaka |  |
|---|---|

Project Office: House-14 (3rd floor), Road-32, Gulshan-1, Dhaka-1212

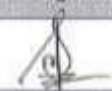
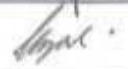
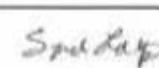

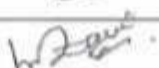


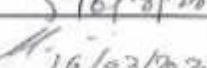
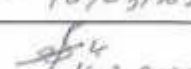
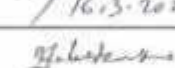


Training on

'Public Consultation Meeting on Environmental Issues'

Venue: HURCO International School, Basundhara.

Date: 16 March 2020

### Attendance sheet

| S/N | Name                 | Designation with Organization               | Mobile No          | Signature   |
|-----|----------------------|---|--------------------|---|
| 1   | S. M. M. Rahman      | HURCO Ltd<br>HURCO Intl. School             | 01713035998        |    |
| 2   | DR. VINAY            | PRINCIPAL                                   | 01911350039        |    |
| 8   | SIED LATIF           | Environment Specialist<br>DESWSP            | whsypd.eg@yaho.com |   |
| 4   | Shahid Zaman         | Env. Specialist<br>ADB                      | 01715-295920       |  |
| 5   | Cal AME Zaki (civil) | General Manager                             | 01713107161        |  |
| 6   | Shuhana Akter        | Pre-school Coordinator<br>HURCO Intl school | 01755592296        |  |
| 7   | Ruhul M. Chowdhury   | Middle School<br>Coordinator                | 017555-03965       |  |
| 8   | Mahmud Islam         | High School<br>Coordinator                  | 01714079109        |  |
| 9   | Md. Nusrat Hossain   | CSO   | 01912345255        |  |
| 10  | Md. Mostafiz Hossain | PE  | 01716277258        |  |
| 11  | Engr. Alamin         | Print-Sup                                   | 01913361653        |  |
| 12  | Bonazir Ezzog        | Admin officer                               | 01782103333        |  |

## Management, Design & Supervision

Dhaka Environmentally Sustainable Water Supply Project (DESWSP), Dhaka



Project Office: House-14 (3rd floor), Road-32, Gulshan-1, Dhaka-1212

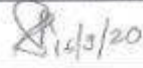
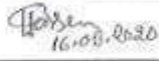
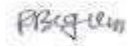


Training on

'Public Consultation Meeting on Environmental Issues'

Venue: Hurdco International School, Basundhara.

Date: 16 March 2020

### Attendance sheet

| S/N | Name                           | Designation with Organization | Mobile No   | Signature  |
|-----|--------------------------------|-------------------------------|-------------|--|
| 13  | Johura Begum                   | Coordinator                   | 01715469410 |   |
| 14  | Tofazzal-Hossain               | Safeguard officer (S & G)     | 01745421948 |   |
| 15  | Rukssana Begum                 | SD & GS, MDSC<br>DESWSP       | 01711824537 |   |
| 16  | Md. Mahmudul<br>Hossain Rabant | ET, MDSC,<br>M&M Macdonald    | 0181839489  |   |
| 17  | Budip Biswas                   | Project Asst.<br>MDSC         | 01737281640 |  |
| 18  |                                |                               |             |  |
| 19  |                                |                               |             |  |
| 20  |                                |                               |             |  |
| 21  |                                |                               |             |  |
| 22  |                                |                               |             |  |
| 23  |                                |                               |             |  |
| 24  |                                |                               |             |  |



# C. Training Information H&S

*Total - 26 74 for pan*  
*M-24. F-02*





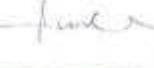




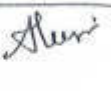
### Training on "Environment"

Venue: Conference Room, 13th floor, DWASA

Date: 28 January, 2020

#### Attendance sheet

*Please check your name and designation.*

| S/N | Name & Designation     | Name of Organization   | Mobile No. & E-mail address                    | Signature   |
|-----|------------------------|--|--|---|
| 1   | Md. Mahmudul Islam     | Superintending Engineer & Project Director, DESWSP, DWASA        | 01922198190<br>p.deeswsp@gmail.com             |    |
| 2   | Bahrul Islam           | Superintending Engineer & Deputy Project Director, DESWSP, DWASA | 01711584893<br>bahrul.deswsp@gmail.com         |    |
| 3   | Md. Shafiqur Rahman    | Deputy Project Director, DESWSP, DWASA                           |  |    |
| 4   | Zunayed Abu Yasir      | Executive Engineer, DESWSP, DWASA                                | 01794777627<br>engr.zunayed@gmail.com          |   |
| 5   | Md. Mostafijur Rahaman | Executive Engineer, DESWSP, DWASA                                | 01710-355008<br>engr.mrd405a@gmail.com         |  |
| 6   | Md. Al Amin            | Executive Engineer, DESWSP, DWASA                                | 01716-496853<br>alamin.dwasa@jaha.com          |  |
| 7   | Mahrin Bintay Islam    | Assistant Engineer, DESWSP, DWASA                                |  |  |
| 8   | Md. Saiful Islam       | Assistant Engineer, DESWSP, DWASA                                | 01552-343207<br>saiful.deswsp@gmail.com        |  |
| 9   | Md. Tarikul Islam      | Assistant Engineer, DESWSP, DWASA                                | 01914406333<br>engr.tarikulpv@gmail.com        |  |
| 10  | Md. Alamgir Hossain    | Assistant Engineer, DESWSP, DWASA                                | 01712-181566<br>mdalamgirhossain1977@gmail.com |  |

### Training on "Environment"

Venue: Conference Room, 13th floor, DWASA

Date: 28 January, 2020

#### Attendance sheet

| S/N | Name & Designation   | Name of Organization                                | Mobile No. & E-mail address               | Signature |
|-----|----------------------|---|---|-----------|
| 11  | Afsana Afrin         | Sub-Assistant Engineer,<br>DESWSP, DWASA            | 01711281058<br>afsanafarin006@gmail.com   |           |
| 12  | Tofazzal Hossain     | Safe Guard Office (S&G),<br>DESWSP, DWASA           | 01745421948<br>tofaansust@gmail.com       |           |
| 13  | Md. Saïdur Rahman    | Safe Guard Officer (Env),<br>DESWSP, DWASA          | 01715149604<br>Saïdur.r.m.ple@gmail.com   |           |
| 14  | Nwokedi Uchefuna     | HSE Manager GWT, GWT                                | 0131341996<br>nwokedi.uchefuna@gwtssc.com |           |
| 15  | Abdul Khader,        | Construction Manager, WTP                           |   |           |
| 16  | Youssef Najjar,      | Construction Manager, Intake                        |   |           |
| 17  | Mr. tong xiaomeng    | GAMCE HSE Manager                                   | 0131209888<br>tongxiaomeng@gamce.com.cn   |           |
| 18  | Md. Abul Kalam Azad, | HSE supervisor, WTP                                 | 01313210652<br>kalam.azad@gwtssc.com      |           |
| 19  | Thomas Balling       | Environment Expert, As<br>Resource Person, MDSC     | thomas.balling@<br>fwt-mobil.de           |           |
| 20  | Dr. Syed Latif       | Environment Specialist, As<br>Resource Person, MDSC | +8801715004452<br>syed.lahs@mottmac.com   |           |

### Training on "Environment"

Venue: Conference Room, 13th floor, DWASA

Date: 28 January, 2020

#### Attendance sheet

| S/N | Name & Designation                 | Name of Organization                           | Mobile No. & E-mail address                              | Signature                        |
|-----|------------------------------------|--|--|----------------------------------|
| 21  | Chloe Underdown                    | Civil Engineer, As Resource Person, MDSC       | 71799294609  |                                  |
| 22  | Ellis                              | Jr. Civil Engineer, As Resource Person, MDSC   | 01813606142  |                                  |
| 23  | Md. Zakir Hossain                  | Civil Engineer, MDSC                           | 01712-18456<br>zakir.hossain@mottmac.com                 |                                  |
| 24  | Md. Obaidul Kabir                  | Design Civil Engineer, MDSC                    | 01819244413<br>obaidul.kabir-mm@mottmac.com              | <br>28.01.20                     |
| 25  | MD, MAHMODUL HASAN RAHAT           | Environment Inspector, MDSC                    | 01818390189<br>rahat.hasan@mottmac.com                   |                                  |
| 26  | Md. Ejazul Karim                   | DRE, WTP, MDSC                                 | 01815521564<br>syed.karim@mottmac.com                    | <br>28.01.2020                   |
| 27  | Md. Muinur Rashid<br>MUINUR RASHID | DRE, Intake, MDSC                              | 01755501526<br>muinur.rashid@mottmac.com                 |                                  |
| 28  | Md. Mainul Islam                   | ARE, Intake, MDSC                              | 01749789301<br>mainul.islam-npm@mottmac.com              | <br>28.01.2020                   |
| 29  | Mizanur Rahman                     | ARE, WTP, MDSC                                 | 01748999734<br>Mizanur.Rahman-nm@mottmac.com             |                                  |
| 30  | Md. Afzal                          | Sub Contractor, HSE Inspector, Intake, SHANDOG | 01709614030<br>AFZAL Hossain<br>afzalhossain@shandog.com | <br>afzalhossain210685@gmail.com |

### Training on "Environment"

Venue: Conference Room, 13th floor, DWASA

Date: 28 January, 2020

#### Attendance sheet

| S/N  | Name & Designation                        | Name of Organization                                    | Mobile No. & E-mail address                        | Signature |
|------|---|---|--|-----------|
| X 31 | Md. Mamun,                                | Sub Contractor, HSE Inspector,<br>Intake, MENARD        |  |           |
| 32   | ABU NOWSHAD<br>Md. Wali Mahanud,<br>NAHID | office<br>Sub Contractor, HSE Inspector,<br>WTP, MENARD | 01711334808<br>annnahid@gmail.com                  |           |
| 33   | Md. Anwar Hossain,                        | Sub Contractor, HSE Engr.,<br>WTP, CAMCE                | 01956369543<br>anwarhossain.mn3u<br>2017@gmail.com |           |
| 34   | Mst. Merzina<br>Sultana                   | Sub-Assistant Engineer<br>DESWSP, DWASA.                | 01913448072<br>merzina.sultana2009<br>@gmail.com   | Merzina   |
|      |   |   |  |           |
|      |   |   |  |           |
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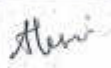
### Training on "Environment"

Venue: INTAKE AREA, Arahazar

Date: 29 January, 2020

Field visit.

#### Attendance sheet


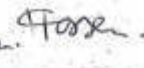
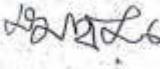





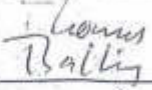
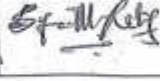
| S/N | Name & Designation     | Name of Organization   | Mobile No. & E-mail address                  | Signature   |
|-----|------------------------|--|--|---|
| 1   | Md. Mahmudul Islam     | Superintending Engineer & Project Director, DESWSP, DWASA        | 01922198190<br>pddeswspgwtp@gmail.com        |    |
| 2   | Bahrul Islam           | Superintending Engineer & Deputy Project Director, DESWSP, DWASA | 01711584843<br>dpsdeswsp@gmail.com           |    |
| 3   | Md. Shafiqur Rahman    | Deputy Project Director, DESWSP, DWASA                           |  |    |
| 4   | Zunayed Abu Yasir      | Executive Engineer, DESWSP, DWASA                                |  |  |
| 5   | Md. Mostafijur Rahaman | Executive Engineer, DESWSP, DWASA                                | 01710-385008<br>enfr.mrdwasa@gmail.com       |  |
| 6   | Md. Al Amin            | Executive Engineer, DESWSP, DWASA                                |  |  |
| 7   | Mahrin Bintay Islam    | Assistant Engineer, DESWSP, DWASA                                |  |  |
| 8   | Md. Saiful Islam       | Assistant Engineer, DESWSP, DWASA                                | 01552-313207<br>saibl.deswsp@gmail.com       |  |
| 9   | Md. Tarikul Islam      | Assistant Engineer, DESWSP, DWASA                                | 01914406333<br>engr.tareq.pu@gmail.com       |  |
| 10  | Md. Alamgir Hossain    | Assistant Engineer, DESWSP, DWASA                                | 01712-381366<br>mohamirhossain1997@gmail.com |  |

## Training on "Environment" ✓✓

Venue: INTAKE AREA, Arahazar

Date: 29 January, 2020

### Attendance sheet



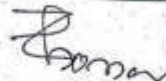
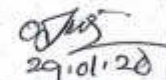






| S/N | Name & Designation     | Name of Organization                                | Mobile No. & E-mail address              | Signature   |
|-----|------------------------|---|--|---|
| 11  | Afsana Afrin ✓         | Sub-Assistant Engineer,<br>DESWSP, DWASA            |  |    |
| 12  | Tofazzal Hossain ✓     | Safe Guard Office (S&G),<br>DESWSP, DWASA           | 01745-420948<br>tofaansw@deswsp.gov.bd   |    |
| 13  | Md. Saldur Rahman ✓    | Safe Guard Officer (Env),<br>DESWSP, DWASA          | 0171549804                               |   |
| 14  | Nwokedi Uchefuna ✓     | HSE Manager GWT, GWT                                |  |  |
| 15  | Abdul Khader, ✓        | Construction Manager, WTP                           |  |  |
| 16  | Youssef Naijar, ✓      | Construction Manager, Intake                        | 01313438502<br>youssef.naijar@awbnc.la   |  |
| 17  | Mr. tong xiaomeng ✓    | CAMCE HSE Manager                                   | 01312019880<br>tongxiaomeng@camce.com.cn |  |
| 18  | Md. Abul Kalam Azad, ✓ | HSE supervisor, WTP                                 |  |  |
| 19  | Thomas Balling ✓       | Environment Expert, As<br>Resource Person, MDSC     |  |  |
| 20  | Dr. Syed Latif ✓       | Environment Specialist, As<br>Resource Person, MDSC | 01715004452<br>latifsyed@mdsc.gov.bd     |  |

### Training on "Environment"

Venue: INTAKE AREA, Arilhazar

Date: 29 January, 2020

#### Attendance sheet

| S/N  | Name & Designation                   | Name of Organization                              | Mobile No. & E-mail address                      | Signature   |
|------|--------------------------------------|---|--|---|
|      | 21 Chloe Underdown                   | Civil Engineer, As Resource Person, MDSC          |  |                |
|      | 22 Ellis                             | Jr. Civil Engineer, As Resource Person, MDSC      |  |                |
| MDSC | 23 Md. Zakir Hossain                 | Civil Engineer, MDSC                              | 01712184516                                      |               |
| MDSC | 24 Md. Obaidul Kabir                 | Design<br>Civil Engineer, MDSC                    | 01819244413                                      | <br>29.01.20 |
| MDSC | 25 Md. Rahat                         | Environment Inspector,<br>MDSC                    | 01818390189<br>rahat.hasan@mottmac.com           |              |
| MDSC | 26 Md. Ezazul Karim                  | DRE, WTP, MDSC                                    | 01815-521564<br>Syed.Kamir@mottmac.com           |              |
| MDSC | 27 Md. Moimur Rashid<br>MUNUR RASHID | DRE, Intake, MDSC                                 | 01755501526<br>munur.rashid@mottmac.com          |              |
| MDSC | 28 Md. Mainul Islam                  | ARE, Intake, MDSC                                 | 01749-789301<br>mainul.islam-munur@mottmac.com   |              |
| MDSC | 29 Md.<br>Mizanur Rahman             | ARE, WTP, MDSC                                    | 01748 999734<br>Mizanur.Rahman-munur@mottmac.com |              |
| MDSC | 30 Md. Afzal                         | Sub Contractor, HSE Inspector,<br>Intake, SHANDOG | 01705614030<br>afzalhossain210685@gmail.com      |              |

### Training on "Environment"

Venue: INTAKE AREA, Arahazar

Date: 29 January, 2020

#### Attendance sheet

| S/N    | Name & Designation                                  | Name of Organization                             | Mobile No. & E-mail address                         | Signature |
|--------|---|--|---|-----------|
| 01/ 31 | Md. Mamun,  | Sub Contractor, HSE Inspector,<br>Intake, MENARD |   |           |
| 01/ 32 | <del>Md. Wali Mahmud,</del><br>ABU NOWSHAD<br>NAHID | Sub Contractor, HSE Inspector,<br>WTP, MENARD    | office: anmnaahid@gmail.com<br>01711334808          |           |
| 01/ 33 | Md. Anwar Hossain,                                  | Sub Contractor, HSE Engr.,<br>WTP, CAMCE         | 01956869543<br>anwar.hossain<br>mon3U2017@gmail.com |           |
| 34     | Md. Ashraf Ali                                      | SAE, PMU.<br>DWASA                               | 01920-725453  |           |
|        |   |  |   |           |
|        |   |  |   |           |
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|        |   |  |   |           |



# D. MoM of GRC

**জিআরসি সভার কার্যবিবরণী**

গণপ্রজাতন্ত্রী বাংলাদেশ সরকারের এলজিআরডিসি মহাপাঠ্যের অধীনে পানি সরবরাহ ও পয়ঃনিষ্কাশন কর্তৃপক্ষ  
প্রজ্ঞাপন নংঃ ৪৬.০৮৫.০১৪.০১.০০.০০৬.২০১৩ (অংশ) ৮৮৮ তার ১১.১১.২০১৫এর মাধ্যমে গঠিত।  
ঢাকা এনভায়রনমেন্টালী সাসটেইনেবল ওয়াটার সাপ্লাই প্রজেক্ট  
ঢাকা ওয়াসা

তারিখ : ২৭.০১.২০২০

সময় : সকাল ১১টা

সভার স্থান : ডরপ এরিয়া অফিস, আড়াইহাজার, নারায়ণগঞ্জ।

আলোচ্য বিষয় :

ক) ক্ষেত্র নিরসন কমিটি (Grievance Redress Committee - GRC) আবেদনকৃতদের অভিযোগ বিষয়ক পর্যালোচনা/শুনানি।

খ) গৃহীত পদক্ষেপ।

গ) কাট অফ ডেট : ০৩/০১/২০১৬ইং

সভায় উপস্থিত কমিটির সদস্য ও অন্যান্যদের নাম ও পদবী :

১. জনাব বাহরুল ইসলাম, তত্ত্বাবধায়ক প্রকৌশলী, উপ-প্রকল্প পরিচালক, DISWS/SP, ঢাকা ওয়াসা, কমিটির আহ্বায়ক এবং সভার সভাপতি।
২. ড.রাফেজা আক্তার, National Resettlement Expert, MDSC, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৩. মো: নাজিম উদ্দিন, চেয়ারম্যান, উচিতপুরা ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৪. মো: আলী হোসেন ভূইয়া, চেয়ারম্যান, হাইজাদি ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৫. মো: আমানউল্লাহ মিয়া, চেয়ারম্যান, মাহমুদপুর ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৬. নাসিমা বেগম, সংরক্ষিত মহিলা সদস্য, উচিতপুরা ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৭. মো: আইজুবিন মোল্লা, ক্ষতিগ্রস্ত ব্যক্তিদের পক্ষে, উচিতপুরা ইউনিয়ন, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৮. মোসা: সাজেদা আক্তার, সংরক্ষিত মহিলা সদস্য, হাইজাদি ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
৯. মো: সিরাজুল ইসলাম মিয়া, ক্ষতিগ্রস্ত ব্যক্তিদের পক্ষে, হাইজাদি ইউনিয়ন, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
১০. শিউলি আক্তার, সংরক্ষিত মহিলা সদস্য, মাহমুদপুর ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
১১. মোঃ ফজলুল হক, ক্ষতিগ্রস্ত ব্যক্তিদের পক্ষে, মাহমুদপুর ইউনিয়ন, মনোনীত প্রতিনিধি ও কমিটির সদস্য।
১২. জাকিয়া বেগম, সংরক্ষিত মহিলা সদস্য, খাগাকা ইউনিয়ন পরিষদ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত প্রতিনিধি ও কমিটির সদস্য।

১৩. মোঃ ইকবাল হোসেন, এরিয়া ম্যানেজার (Resettlement), ডরপ, আড়াইহাজার, নারায়ণগঞ্জ, মনোনীত এনজিও প্রতিনিধি ও কমিটির সদস্য সচিব।
১৪. মো: আল আমিন, নির্বাহী প্রকৌশলী, DESWSP, ঢাকা ওয়াসা।
১৫. জোফাঞ্জল হোসেন, সেইফগার্ড অফিসার (সোসাল এন্ড জেক্টার), DESWSP, ঢাকা ওয়াসা।
১৬. মো: আশরাফ আলী, উপসহকারী প্রকৌশলী, DESWSP, ঢাকা ওয়াসা।
১৭. মোঃ শাহাদাত হোসেন, External Monitoring Agency (EMA).
১৮. মো: গুয়াহিদ আলম, External Monitoring Agency (EMA).

সভার সূচনা বক্তব্য : জনাব বাহরুল ইসলাম, তত্ত্বাবধায়ক প্রকৌশলী ও উপ-প্রকল্প পরিচালক, DESWSP, জিআরসি কমিটির আহবায়ক এবং সভার সভাপতি, ঢাকা ওয়াসা সভায় উপস্থিত সকলকে শুভেচ্ছা জানিয়ে সভার কাজ শুরু করেন। তিনি সকলকে নিজ নিজ পরিচয় দেওয়ার অনুরোধ জানান।

পরিচয় সূচনা : সভাপতির আহবানে সভার অংশগ্রহণকারীরা প্রত্যেকে স্ব স্ব পরিচয় তুলে ধরেন।

পরিচয় পর্ব শেষ হলে সভাপতি মহোদয় বলেন আপনারা অবগত আছেন যে ঢাকা ওয়াসার ঢাকা এনজয়রনমেন্টশী সাফটওয়্যার ওয়াটার সাপ্লাই প্রজেক্ট (DESWSP) নামে একটি মেগা প্রজেক্ট বাস্তবায়ন করতে যাচ্ছে। প্রকল্পটি নারায়ণগঞ্জ জেলার আড়াইহাজার উপজেলার বিশনন্দী নামক স্থানে মেঘনা নদী থেকে অপরিশোধিত পানি উত্তোলন করে পাইপ লাইনের মাধ্যমে রূপগঞ্জ উপজেলার গন্ধর্বপুরে ঢাকা ওয়াসার নিজস্ব জমিতে প্রস্তাবিত পানি শোধনাগার প্র্যান্টে এসে তা পরিশোধন করে পরিশোধিত/বিশুদ্ধ পানি ঢাকা উত্তর সিটি কর্পোরেশন অংশে বসবাসকারী সকল শ্রেণীর গ্রাহকদের DMA র মাধ্যমে সরবরাহ করবে। উক্ত প্রকল্প বাস্তবায়নে মোট ৩৫ কি. মি (Raw Water & Treated) পাইপ লাইন স্থাপন করা হবে। তিনি আরও বলেন, এটি বাস্তবায়নের জন্য আড়াইহাজার ও রূপগঞ্জ উপজেলার ফরেনে ১৩১.৫২ ও ৬০.৫৫ একর জমি অধিগ্রহণ করা হচ্ছে। স্থাবর সম্পত্তি অধিগ্রহণ ও ছুতুনদখল অধ্যাদেশ ১৯৮২ ও ২০১৭ মোতাবেক জেলা প্রশাসন অধিগৃহীত সকল জমি, তাতে অবস্থিত অবকাঠামো ও গাছপালা ক্ষতিপূরণ প্রদান করবেন।

যেহেতু প্রকল্পটি Asian Development Bank (ADB) এর আর্থিক সহায়তা বাস্তবায়িত হচ্ছে তাই প্রকল্পটিতে পুনর্বাসন পরিকল্পনা(Resettlement plan) বাস্তবায়নের শর্ত রয়েছে। পুনর্বাসন পরিকল্পনা বাস্তবায়নে প্রকল্পের জন্য ক্ষতিগ্রস্ত ব্যক্তিদের কারও কোন অভিযোগ থাকলে তা নিরসনের জন্য ক্ষোভ নিরসন কমিটি (Grievance Redress Committee - GRC) গঠন হয়েছে। আপনারা অবগত আছেন বিগত ৩১.১০.২০১৯ তারিখে একটি ক্ষোভ নিরসন কমিটির (Grievance Redress Committee - GRC) সভা অনুষ্ঠিত হয়। অদ্য ২য় মিটিং অনুষ্ঠিত হচ্ছে। তিনি বলেন, GRC বরাবর যাহারা আবেদন করেছেন তাহাদের ব্যাপারে কমিটি পর্যালোচনার মাধ্যমে গৃহীত সিদ্ধান্ত মোতাবেক পদক্ষেপ গ্রহণ করবেন। গৃহীত পদক্ষেপ ও কার্যবণী National Resettlement Expert, MDSC মনিটর করেন ও তার মতামত বাস্তব করেন।

সভাপতি মহোদয় বলেন, আজকের সভায় মূলত প্রকল্পের আড়াইহাজার অংশের অধিগৃহীত জমি ও তার ওপর অবস্থিত অবকাঠামো, গাছপালা ও অন্যান্য বিষয়ে যাহারা অভিযোগ পত্র জমা দিয়েছেন তাহাদের প্রত্যেকের সাথে অভিযোগের বিষয়ে আলোচনা করা হবে। তিনি, জিআরসি কমিটির সদস্য সচিব, মোঃ ইকবাল হোসেন, এরিয়া ম্যানেজার, ডরপ, আড়াইহাজার, নারায়ণগঞ্জকে ৩১.১০.২০১৯ সভার রেজুলেশন পাঠ করে শুনতে ও প্রত্যেকের ফাইল এবং অভিযোগের তথ্য উপস্থাপনের জন্য অনুরোধ জানান।





| ক্রমিক<br>নং | অধিবেশন কক্ষের নাম ও<br>ঠিকানা   | অধিবেশনের বিবরণ   | আবেদন ও পরীক্ষার<br>বিবরণ  | পূর্ণতা<br>প্রাপ্তি | বিবরণ     |
|--------------|--|---|----------------------------|---------------------|-----------|
| ১৩           | স্বয়ং পরিচালিত ইন্ডাস্ট্রি,<br>শিল্পোৎপাদন অধিদপ্তর<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর | মাসিক রিপোর্ট ও বিবরণ<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর,<br>মৌড়ার মাসিক রিপোর্ট<br>সম্বন্ধে। এছাড়াও মাসিক<br>রিপোর্টের অন্যান্য অংশের<br>সম্বন্ধে। এছাড়াও মাসিক<br>রিপোর্টের অন্যান্য অংশের<br>সম্বন্ধে। | আবেদন ও পরীক্ষার<br>বিবরণ। | আবেদন<br>প্রাপ্তি   | অনুপস্থিত |
| ১৪           | কক্স বেল্ট মেম্বার<br>শিল্পোৎপাদন অধিদপ্তর<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর           | মাসিক রিপোর্ট বিবরণের<br>সম্বন্ধে।  | আবেদন ও পরীক্ষার<br>বিবরণ। | আবেদন<br>প্রাপ্তি   | অনুপস্থিত |
| ১৫           | সরকারি কারখানা<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর                                       | মাসিক রিপোর্ট বিবরণের<br>সম্বন্ধে।  | আবেদন ও পরীক্ষার<br>বিবরণ। | আবেদন<br>প্রাপ্তি   | অনুপস্থিত |
| ১৬           | বিহার টিলিন<br>শিল্পোৎপাদন অধিদপ্তর<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর                  | মাসিক রিপোর্ট বিবরণের<br>সম্বন্ধে।  | আবেদন ও পরীক্ষার<br>বিবরণ। | আবেদন<br>প্রাপ্তি   | অনুপস্থিত |
| ১৭           | কক্স বেল্ট<br>মৌড়া, ইন্ডাস্ট্রি<br>অধিদপ্তর, নারায়ণপুর   | মাসিক রিপোর্ট বিবরণের<br>সম্বন্ধে।  | আবেদন ও পরীক্ষার<br>বিবরণ। | আবেদন<br>প্রাপ্তি   | অনুপস্থিত |

সমস্ত আর কোন আবেদনের বিবরণ বা প্রাপ্তি সম্পর্কে ধন্যবাদ জানিয়ে সমস্ত সমস্যা মোচনী করেন।

  
মোঃ হোসেন হোসেন  
এক্সিকিউটিভ  
অফিসার  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।


  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

  
মোঃ হোসেন হোসেন  
National Road Cement Export, MDC  
মাসিক রিপোর্ট ও বিবরণের  
সম্বন্ধে।  
GRC, DESWSP, ঢাকা অফিস।

**Development Organisation of the Rural Poor-DORP**  
**Dhaka Environmentally Sustainable Water Supply Project-DESWSP**  
 Araihaajar, Narayanganj

**G.R.C Consultation Meeting**  
Attendance Sheet

Area Office: Araihaajar, Narayanganj.

Area/ Address:

Section: 2

Date: 31.10.2019 Time:

Name of President :

| Sl.No | Name              | Father/Husband Name | Occupation                              | Address                         | Telephone No. | Signature    |
|-------|-------------------|---------------------|---|---------------------------------|---------------|--------------|
| 1     | Zunayed Akbar     |                     | Executive Engineer                      | PMU, DESWSP                     | 01704177767   |              |
| 2     | Dr. Rafiq Akter   |                     | National Resource Management Specialist | MDSC, DESWSP                    | 01718217941   | Rafiq        |
| 3     | Dr. Rafiq Akter   |                     |   | MDSC, DESWSP                    |               | Rafiq        |
| 4     | Md. Joyzel Abedin |                     | U.P. Member                             |                                 | 01713509825   |              |
| 5     | Kazi Hamida Akter |                     | U.P. Member                             |                                 | 01920102980   |              |
| 6     | Md. Shahadat H.   |                     | EMA-Dabedail                            |                                 | 01712435226   |              |
| 7     | Jesmin Shalwar    |                     | DIL (DESWSP)                            | DORP                            | 01715521099   |              |
| 8     | Dr. Rafiq Akter   |                     | Area Manager DORP                       | Area Manager DORP               | 01716104604   |              |
| 9     | Md. Zouf Shukur   |                     | R.O                                     | DORP                            | 01761593895   |              |
| 10    | Md. Zouf Shukur   |                     | R.O                                     | DORP                            | 01727627097   |              |
| 11    | Md. Zouf Shukur   |                     | R.O                                     | Resettlement organization, DORP | 01711232081   |              |
| 12    | Md. Zouf Shukur   |                     | R.O                                     | DORP                            | 01712671467   |              |
| 13    | Md. Zouf Shukur   |                     | LF                                      | (DORP) Area Manager             | 01310422185   | Hamida Akter |
| 14    | Md. Zouf Shukur   |                     | LF                                      | DORP                            | 01725900775   | Rezaul       |

| Sl. No. | Name            | Father/Husband Name | Occupation | Address      | Telephone No. | Signature     |
|---------|-----------------|---------------------|------------|--------------|---------------|---------------|
| 26      | श्रीधर ठोसरी    | श्री-रघु ठोसरी      | कृषक       | जामुवाडी     | 01821501782   | श्रीधर ठोसरी  |
| 29      | महादेव ठोसरी    | महादेव ठोसरी        | बनार कृषक  | श्री वामनपुर | 01738910309   | महादेव ठोसरी  |
| 25      | बाबूलाल 20      | श्री-श्रीधर ठोसरी   | कृषक       | जामुवाडी     | 01711312818   | श्री. बाबूलाल |
| 27      | श्री. बाबू शोभा | जामुल शोभा          | कृषि       | जामुवाडी     | 01759364266   | श्री. बाबूलाल |
| 28      | जामुल शोभा      | जामुल जामुल         | कृषक       | जामुवाडी     | 01883642926   | जामुल         |
| 22      | श्री. शोभा शोभा | श्री. शोभा शोभा     | कृषक       | श्रीधर       | 01920873098   | श्री. शोभा    |
| 22      | श्री. शोभा शोभा | श्री. शोभा शोभा     | कृषक       | श्रीधर       | 01752380592   | श्री. शोभा    |
| 26      | जामुल शोभा      | श्री. शोभा शोभा     | कृषक       | जामुवाडी     | 01737967181   | जामुल         |
| 28      | श्रीधर          | जामुल शोभा          | कृषक       | जामुवाडी     | 01856212612   | श्रीधर        |
| 28      | जामुल           | जामुल शोभा          | कृषक       | श्रीधर       | 01988528843   | जामुल         |
| 24      | श्रीधर          | जामुल शोभा          | कृषक       | श्रीधर       | 01715521077   | श्रीधर        |
| 29      | श्रीधर          | श्री. शोभा शोभा     | कृषक       | जामुवाडी     | 01764612238   | श्रीधर        |
| 25      | श्रीधर          | श्री. शोभा शोभा     | कृषक       | जामुवाडी     | 01991295668   | श्रीधर        |

**GRC Meeting Proceedings**  
**Dhaka Environmentally Sustainable water Supply Project (DESWSP)**  
**DWASA**

Date: 27 January 2020                      Time: 11.00 AM  
Meeting Venue: DORP Area Office, Araihasar, Narayanganj

**Name and designation of the personnel attended in the meeting:-**

1. Mr. Bahrul Islam, Superintending Engineer, DPD-1. DESWSP, DWASA and Convener of the Committee;
2. Dr. Rafeza Akter, national resettlement Expert, MDSC, member of the Committee;
3. Md. Nazimuddin, Chairman, Chaitankanda union, Araihasar, Narayanganj, member of the Committee;
4. Md. Ali Hossain Bhuiyan, Chairman, Haizadi union, Araihasar, Narayanganj, member of the Committee;
5. Md. Amanullah Miah, Chairman, Mahmudpur union, Araihasar, Narayanganj, member of the Committee;
6. Nasima Begum, Women UP member, Uchitpura Union Parishad, Araihasar, Narayanganj and Member of the Committee;
7. Md. Aizuddin Molla, attended as representative on behalf of the affected persons of Uchitpura union, Member of the Committee;
8. Mst. Shaheda Akter, Women UP member, Haizadi Union, Araihasar, Narayanganj and Member of the Committee;
9. Md. Serajul Islam Miah, attended as representative on behalf of the affected persons of Haizadi union, Member of the Committee;
10. Sheuly Akter, Women UP member, Mahmudpur Union, Araihasar, Narayanganj and Member of the Committee;
11. Md. Fazlul Haque, attended as representative on behalf of the affected persons of Mahmudpur union, Member of the Committee;
12. Zakia Begum, Women UP member, Khagkanda Union, Araihasar, Narayanganj and Member of the Committee;
13. Md. Iqbal Hossain, area Manager (Resettlement), DORP, Araihasar, Narayanganj, Member Secretary of the Committee;
14. Md. Al Amin, Exen. DESWSP, DWASA;
15. Md. Tofazzal Hossen, Safeguard officer, (Social & Gender), DESWSP, DWASA;
17. Md. Shahadat Hossain, External Monitoring Agency (EMA);
18. Md. Wahid Alam, External Monitoring Agency (EMA);

**Introductory speech of Convener:** Mr. Bahrul Islam, Superintending Engineer, Deputy Project Director, DESWSP and the Convener of the GRC welcomed the participants of the meeting and commenced the meeting proceedings. He requested the participants to introduce themselves.

In response to the request of the Convener of the meeting each of the participant of the meeting introduce themselves (Name, occupation and address etc.).

After completion of the introductory session, the meeting convener described the project in brief before the meeting participants in the following way:-

The Dhaka Environmentally Sustainable Water Supply Project (DESWSP) will provide reliable and sustainable water supply for the dwellers of the Dhaka north City corporation through developing a new surface water supply mega scheme for supplying pure drinking water, which includes development of a water intake at Meghna River Bishnandi point, the raw water transmission pipeline, a water treatment plant at Gandharbpur with capacity of 500 million liters per day (MLD), a treated water transmission pipeline to the existing water supply network, and distribution reinforcements. The project includes distribution network improvements to reduce non-revenue water, and will promote household and community access to safe water, including support to low-income communities. Dhaka Water Supply and Sewerage Authority (DWASA) is the executing and implementing agency of the project.

It was further added that for implementation of this project an amount of 131.52 acres of land from Araihasar and 60.55 acres of land from Rupganj will be required and which has been or will be acquired according to the acquisition and requisition of immovable properties ordinance 1982 and Act of 2017 respectively. The participants have also been informed that due to acquisition and requisition of the land there will be impacted of their moveable and immovable properties (Land, Structures, Trees, crops, Fish stocks and others) and

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for this reasons they will be compensated under the above mentioned ordinance or Act according to the Entitlement Matrix.

As the project is being implemented with the co-financing by ADB, AIB, AFD and Bangladesh Government for resettlement plan implementation there is a condition to resolve of any grievance of affected or non-affected person through the process of GRM.

So, those have any complaint to be lodged their complaint to GRC which will be solved after scrutiny and analysis by the committee members.

The whole GRC meeting proceedings and actions/decisions taken were observed and monitored by Dr. Rafeza, National resettlement Expert, MDSC and two representatives from EMA.

The Convener have drawn attention to the participants that today's meeting has been arranged to hear the complaints filed from section-1 and section-2 of Araihasar upazila. He requested Md. Iqbal Hossain, Area Manager, Araihasar and Member secretary of the committee to put up the complaint one by one.

**Discussions and decisions:**

| <b>Sl. No.</b> | <b>Name of Complainant</b>                                    | <b>Subject matter of complaint</b>   | <b>Discussion (s)</b>  | <b>Decision (s)</b>   |
|----------------|---|--|--|---|
| 1              | Md. Shahidullah,<br>Mouza: Atadi<br>Araihazar,Narayanganj     | <b>He claimed compensation for loss of residential structures (home, fence of CI sheet, Verandah and toilet)</b>   | <b>Based on field checking and evidences it was transpired that the loss items as stated in complaint are existed.</b> | <b>He has been advised to communicate with DC office Narayanganj for compensation. PMU will also request DC so that applicant can receive compensation.</b>                   |
| 2              | Md. Mizanur Rahman,<br>Mouza: Atadi,<br>Araihazar,Narayanganj | <b>In JVC survey irrigation pump and electricity connection was not considered. He claimed compensation for loss.</b>  | <b>Through field checking it was found existed according to the complainant's prayer.</b>                              | <b>After field verification the name of complainant will be enlisted in the list of affected person. PMU will also request DC so that applicant can receive compensation.</b> |
| 3              | Mariam Begum,<br>Mouza: Atadi<br>Araihazar,Narayanganj        | <b>In JVC survey the residential structures (house, CI sheet fence, tub well and electric connection) was not considered. She claimed compensation for loss of structures &amp; others as stated in the application.</b> | <b>Through field checking it was known that the loss items as he claimed are existed.</b>                              | <b>She has been advised to communicate with DC office Narayanganj for compensation. PMU will also request DC so that applicant can receive compensation.</b>                  |
| 4              | Halima Begum<br>Mouza: Baliapara<br>Araihazar,Narayanganj     | <b>In JVC survey a verandah was not considered. She claimed compensation for verandah</b>  | <b>Through field checking the existence of verandah was found.</b>   | <b>She has been advised to communicate with DC office Narayanganj for compensation. PMU will also request DC so that applicant can receive compensation.</b>                  |

|    |  |   |   |   |
|----|--|---|---|---|
| 5  | Salma Begum<br>w/o Ali Hossain,<br>Mouza: Kamaldi<br>Araihazar,Narayanganj                 | <b>She claimed compensation for loss of house, fence and a toilet.</b>  | <b>Through field checking it was observed that the mentioned items existed but does not fall under the project area.</b>                        | <b>Application rejected.</b>  |
| 6  | Madhabi Rani Kar,<br>w/o Ashit Chandra<br>Paul<br>Mouza:Bijoyagar<br>Araihazar,Narayanganj | <b>In JVC survey the house, fences, shop, cow house, kitchen, toilet and tub well) was not considered. He claimed compensation for all of these loss items.</b> | <b>All the structures and other loss items fall under vested property land. A case is running in the court with Bangladesh Govt.</b>            | <b>He has been advised to communicate with LA section of DC office.</b>   |
| 7  | Md. Sharif<br>Mouza:Baliapara<br>Araihazar,Narayanganj                                     | <b>In JVC a poultry farm was not considered. He claimed compensation for loss of poultry farm.</b>  | <b>Through field verification it was not found any existence of poultry farm.</b>   | <b>Application rejected.</b>  |
| 8  | Md. Suruzzaman<br>Mouza:Baliapara<br>Araihazar,Narayanganj                                 | <b>In JVC survey affected residential house and fence was not considered. He claimed compensation for affected primary and secondary structures.</b>            | <b>From discussions it was proved that the mentioned structures existed.</b>  | <b>He has been advised to communicate with DC office Narayanganj for compensation. PMU will also request DC so that applicant can receive compensation.</b> |
| 9  | Md. Alam Miah<br>Mouza: Baliapara<br>Araihazar,Narayanganj                                 | <b>He claimed relocation allowance for shifting his structures.</b>   | <b>From discussions it was decided that He deserves for relocation allowance.</b>   | <b>He will be provided relocation allowance.</b>  |
| 10 | Md. Nazrul Islam<br>Mouza: Aguandi<br>Araihazar,Narayanganj                                | <b>A cow house and a bathroom was not considered.</b>   | <b>Through field checking and discussion with the local people it was known that he has already received compensation for cow house and the</b> | <b>Application rejected.</b>  |

|    |  |  |  |   |
|----|--|--|--|---|
|    |  |  | bathroom was constructed after payment.  |   |
| 11 | Md. Sayedul Karim<br>Bhuiyan<br>Mouza: Laxmipur<br>Araihazar,Narayanganj | He has claimed compensation for non-using of irrigation pump due to acquiring land under irrigation under this pump.               | From discussions it was proved that his pump existed and he is affected due to non- using of his irrigation pump. This type of compensation is given by DC office. | Decision has taken to communicate with LA section of DC office, so that he can get compensation.                                |
| 12 | Md. Momen Miah<br>Mouza: Kamaldi<br>Araihazar,Narayanganj                | He has claimed compensation for non-using of irrigation pump.  | After discussion it was decided that he may get compensation for irrigation pump.  | Decision has taken to communicate with LA section of DC office, so that he can get compensation.                                |
| 13 | Md. Nazrul Islam<br>Mouza: Eidbardi<br>Araihazar,Narayanganj             | In JVC survey his affected land considered as <i>nall</i> land. He claimed compensation for his affected land as <i>viti</i> land. | Through verification it was known that he has received compensation against his affected land as <i>nall</i> land from DC office.                                  | He has been advised to communicate with LA section of DC office. PMU will assist him for receiving compensation from DC office. |
| 14 | Abdul Matin Molla<br>Mouza: Eidbardi<br>Araihazar,Narayanganj            | Prayer for receiving compensation as vulnerable AP.  | Through discussions it was decided that he deserves benefit as a vulnerable AP   | He has been advised to communicate with Area Manager, Araihazar.  |
| 15 | Hazrat Ali<br>Mouza: Baliapara   | Prayer for receiving compensation as vulnerable AP.  | Through discussions it was decided that according to vulnerable criteria he does not fall under any category of vulnerable AP.                                     | Application rejected.   |
| 16 | Miazudddin<br>Mouza: Eidbardi<br>Araihazar,Narayanganj                   | Prayer for receiving compensation as vulnerable AP.  | Through discussions it was decided that according to vulnerable criteria he does not fall under  | Application rejected.   |

|    |   |  |  |   |
|----|---|--|--|---|
|    |   |  | <b>any category of vulnerable AP.</b>  |   |
| 17 | Rehena Begum<br>Mouza: Eidbardi<br>Araihazar, Narayanganj | <b>Prayer for receiving compensation as vulnerable AP.</b> | <b>Through discussions it was known that after the death of her husband she is now head of household and fall under the criteria of vulnerable AP.</b> | <b>He has been advised to communicate with Area Manager, Araihazar.</b> |

Having no any other discussions the convener ended the meetings with thanks to all participants of the meeting.

# E. Checklists

## E.1 Environmental checklists,

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**ENVIRONMENTAL MONITORING CHECKLIST**  
**P1, P2 and P3 for MONITORING REPORT**  
(Checklist for Construction Phase, DESWSP)

Project Name ..... [P1] .....

Contract Number .....

Name of Contractor .....

Date: 08 December 2010 Location: P1 (Intake)

WEATHER CONDITION: Sunny/~~Cloudy~~/~~Rainy~~/~~Stormy~~ (Tick Mark) *Fissy*

PREVIOUS SITE CONDITION: Moderate (Floodplain)/ Fair

CURRENT SITE CONDITION: Preparatory works on going (Earthwork for Intake land raising by dredged material)

Satisfactory: \_\_\_ Unsatisfactory \_\_\_ Incident No Resolved \_\_\_ Unresolved \_\_\_

INCIDENT:

Nature of incident: Happened / Not happened

Intervention Steps: Applicable / Not Applicable

Incident Issues

|            |                        |                       |                                     |
|------------|------------------------|-----------------------|-------------------------------------|
| Resolution | Project Activity Stage | (a) Survey            | Done                                |
|            |                        | (b) Design            | Completed:                          |
|            |                        | (c) Implementation    | Ongoing<br>(Commencement Date.....) |
|            |                        | (d) Pre-Commissioning |                                     |
|            |                        | (e) Guarantee Period  |                                     |

Site Restored to Original Condition Yes  No

Signature

\_\_\_\_\_  
Name & Position

**ENVIRONMENTAL MONITORING CHECKLIST**

**Part-1: Scope of Environmental Management Plan and Monitoring Indicator**

**1.1 Statutory Clearances**

| Agency, Guidelines & Subject                        | Yes | No | N/A |
|---|-----|----|-----|
| ADB SPS 2009  |     |    |     |
| IFC-PS  |     |    |     |
| DOE   |     |    |     |
| RHD   |     |    |     |
| LGED  |     |    |     |
| WARPO   |     |    |     |
| BIWTA   |     |    |     |
| Other: P1 site clearance document mentioned in CEMP | ✓   |    |     |

**1.2 Physical and Ecological Environment**

| Emissions  | Yes | No | N/A                |
|--|-----|----|--------------------|
| Facilities or projects located within poor quality airsheds  |     | ✓  |                    |
| Vehicles/Machineries/Equipment   | ✓   |    |                    |
| Fuel Used & Type (Leaded, Unleaded, Diesel)  |     |    |                    |
| Others   |     |    |                    |
| Noise and Nuisance   | Yes | No | N/A                |
| Community is informed  |     |    |                    |
| Noise level of machinery/vehicles/workers <b>No machineries</b>  | ✓   |    |                    |
| Noise level maintained/ exceeded   | ✓   |    |                    |
| Other  |     |    |                    |
| Hazardous Substances   | Yes | No | N/A                |
| Compressed gases, including toxic or flammable gases   |     |    | ✓<br>At this stage |
| Flammable liquids  |     | ✓  |                    |
| Flammable solids;  |     | ✓  |                    |
| Oxidizing substances;  |     | ✓  |                    |
| Radioactive material; and corrosive substances   |     | ✓  |                    |
| Toxic materials  |     | ✓  |                    |
| Onsite chemical storage and its condition ( <b>Storage needs to be applied following EMP, specification</b> ) <i>Still need to care.</i> | ✓   |    |                    |
| Dust   | Yes | No | N/A                |
| Grading  |     | ✓  |                    |
| Concrete cutting   |     |    | ✓                  |
| Abrasive blast cleaning of concrete and steel  |     |    | ✓                  |
| Nuisance to pedestrian and vehicular traffic   |     |    | ✓                  |
| Any dust found to escape the site boundaries ( <b>Need more water spraying</b> )   |     | ✓  |                    |
| Discharge of muddy water or muddy tracks seen on adjacent roads  |     | ✓  |                    |
| During heavy rain erosion and sediment control measures  |     |    | ✓                  |

|  |     |    |     |
|--|-----|----|-----|
| Spill of liquid, fuel, oil & grease on site, any site procedure for handling emergencies | ✓   |    |     |
| <b>Waste Management, Pollution, Disposal Sites</b>                                       | Yes | No | N/A |
| Visible onsite solid and liquid waste  | ✓   |    |     |
| Discharge of dewatering activities and location  |     |    | ✓   |
| <b>Reuse and Recycling</b>   | Yes | No | N/A |
| Plastic, sand, paper,  |     | ✓  |     |
| Plastic bottles, cups, cans,   |     | ✓  |     |
| <b>Dust and Litter Control</b>   | Yes | No | N/A |
| Dust   |     |    | ✓   |
| Litter   |     |    | ✓   |
| <b>Trees and Vegetation</b>  | Yes | No | N/A |
| Tree (Site is barren)  |     |    | ✓   |
| <b>Construction Access &amp; Traffic</b>   | Yes | No | N/A |
| Roads, River   |     |    | ✓   |
| <b>Management of stockpiles</b>  |     |    |     |
| Construction materials   | ✓   |    | ✓   |

### 1.3 Social Environment

|  |     |    |     |
|--|-----|----|-----|
| <b>Community</b>   | Yes | No | N/A |
|  |     | ✓  |     |
| <b>Land acquisition and Resettlement</b>   | Yes | No | N/A |
|  |     | ✓  |     |
| <b>Health and Safety (Partially, improvement needs)</b>  | Yes | No | N/A |
|  | ✓   |    |     |
| <b>Sanitation Facility (Poor ventilation, lighting, no proper sanitation facility, leaching to groundwater)</b> <i>still pending</i>   | Yes | No | N/A |
|  | ✓   |    |     |
| <b>Occupational Health and Safety</b>  | Yes | No | N/A |
| Buildings are structurally safe, provide appropriate protection against the climate, and have acceptable light and noise conditions. <b>(Further improvement needs following IEE/EIA Appendix-1)</b> | ✓   |    |     |
| Noise-absorbing materials used, Floors are leveled and non-skid, Equipping facilities with fire detectors, alarm systems, and fire-fighting equipment.   |     |    | ✓   |
| Adequate supplies of potable drinking water, Adequate lavatory facilities (toilets and washing areas),   | ✓   |    |     |
| Suitable arrangements are to be made for provision of clean eating areas where workers are not exposed to the hazardous or noxious substances <i>outsides</i>  |     |    | ✓   |
| Available qualified first-aid at all times with appropriately equipped first-aid, and eye-wash stations accessible throughout the place of work.   | ✓   |    |     |
| <b>Equipment Lay-down and Storage Area</b>   | Yes | No | N/A |
|  |     |    | ✓   |
| <b>Ecology (Flora, Fauna, Bird sanctuary)</b>  | Yes | No | N/A |
|  |     | ✓  |     |
| <b>Employment</b>  | Yes | No | N/A |
|  | ✓   |    |     |

|  |     |    |       |
|--|-----|----|-------|
| <b>General Code of Ethics (including health care, safety, gender policy, children protection) (No women working)</b> ✓ | Yes | No | N/A   |
| <b>Post Construction (Not yet started)</b>   | Yes | No | N/A ✓ |
| <b>Training (Not yet started)</b>  | Yes | No | N/A ✓ |
| <b>Cultural Heritage (Not yet started)</b>   | Yes | No | N/A ✓ |
| <b>GRM and complaint management system review (Not yet started)</b>  |     | ✓  |       |
|  | Yes | No | N/A   |
| Are there any other activities being undertaken out of working hours   |     | ✓  |       |
| <b>Others</b>  |     |    |       |

#### 1.4 Contractor's Establishment and Operations

|  |     |    |     |
|--|-----|----|-----|
| <b>Contractor's facilities</b>   | Yes | No | N/A |
| Location (Still developing)  | ✓   |    |     |
| Signboards (Proper size should be installed, current size A3, A2)  | ✓   |    |     |
| <b>Traffic Management</b>  | Yes | No | N/A |
| Signs, traffic control devices maintained, in good working order   |     |    |     |
| Construction operations conflict with uncontrolled public traffic (Need riverside safety lighting as warning to boats /vessels) ✓  | ✓   |    |     |
| <b>Emergency Preparedness and Response</b>   | Yes | No | N/A |
| Fire   |     | ✓  |     |
| <b>OHS Training</b>  |     |    |     |
| Hazard awareness, site- specific hazards, safe work practices, and emergency procedures for fire, evacuation, and natural disaster |     |    | ✓   |

#### 2. Detailed Environmental Checklist

| Item   | Comments<br>(Enter N/A if not relevant) | Remarks/Details on Comments |
|--|---|-----------------------------|
| <b>1. General Environmental Compliance</b>   |   |                             |
| Is construction commitments according to EMP and EMS   | Y                                       | Moderately                  |
| Work does not cause environmental impacts that were not predicted in EA documentation?   |   |                             |
| Compliance with environmental requirements and prohibitions of DoE legislation, and ADB Guidelines, particularly with respect to Initial Environmental Examination (IEE) from ADB? |   |                             |

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| Item   | Comments<br>(Enter N/A if not relevant) | Remarks/Details on Comments   |
|--|---|---|
| Monitoring registers and waste management registers are undertaken and updated in accordance with the EMP?<br>Are these available on site?   | No                                      | Not available any register. MDSC Environmental Team advised to comply with          |
| Training, awareness and competence of the environmental requirements have been provided to new staff as part of their induction process?<br>A record of site inductions to staff available on site?                        | <del>No</del><br>Y                      |   |
| <b>2. Use of Waste Products or Materials in the Work</b>   |   |   |
| Waste and product dust suppressants meet material and construction requirements of the contract?   |   |   |
| Are storage areas for construction plant, equipment and raw materials suitably demarcated, suitably located away from habitations and ecologically critical areas, khals and water bodies?                                 |   |   |
| Are chemicals, fuels and other potentially hazardous substances being stored in purpose-designed safe areas?   | No                                      |   |
| Any use of reclaimed excess concrete, asphalt pavement, etc., as aggregate, embankment material, slope flattening material or fill in compliance with the material and construction requirements of the EMP?               | No                                      | Not at this stage   |
| Stockpiling of topsoil from productive agricultural lands are separate from other soils?<br>Stockpiles are designed with slopes not exceeding 1:2, heights restricted to 2m and not surcharged?                            | No                                      |   |
| Are stockpiles covered and shaded?   | No                                      |   |
| <b>3. Management and Disposal of Excess Material</b>   |   |   |
| Excess materials from the work are stored, re-used and disposed of as specified in the EMP?<br>Are these storage areas maintained and kept clean?  | No                                      |   |
| Standard forms / permits regarding disposal of excess material are submitted prior to disposal of excess materials off site?   | No                                      |   |
| Location of disposal or management areas and source of excess material being disposed of is recorded?  | No                                      |   |
| <b>4. Work in, Adjacent to, and over Water bodies</b>  |   |   |
| Sediment and other harmful materials and substances are not gaining entry to water courses, other water bodies?  | Yes                                     | Water is back flowing to river  |
| Work specified in watercourse, water bodies and their banks are following the EMP and environmental documentation? And authorized through environmental permits or approvals?  | Yes                                     | Sand filling, geotextile works for protection of offshore intake under construction |
| Ensure temporary water passages systems, temporary water body crossings implemented have been sufficiently maintained to prevent deposition of silt or other materials?  | Yes                                     | Need to dig the canal in depth (access for boats)                                   |
| Disturbance, damage to water course or water body beds, banks and bank vegetation is limited to that specified in the contract and environmental documentation, and authorized through environmental permits or approvals? | No                                      |   |