

# Land Acquisition and Resettlement Due Diligence Report

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Draft for Consultation  
Project number: 42266-026  
July 2018

**IND: Kolkata Environmental Improvement Investment Program (Tranche 3) – Sewerage and Drainage Network (SD32)**

**Package No. SD32/2017-18: Improvement of Sewerage and Drainage System in Mukundapur Area (Part of Ward 109) including Construction of Pumping Station**

## **CURRENCY EQUIVALENTS**

(as of 20 July 2018)

Currency unit = Indian rupee (₹)

₹1.00 = \$0.014

\$1.00 = ₹68.94

## **ABBREVIATIONS**

ADB	-	Asian Development Bank
DDR	-	due diligence report
DWF	-	dry weather flow
GOWB	-	Government of West Bengal
KEIP	-	Kolkata Environmental Improvement Project
KEIIP	-	Kolkata Environmental Improvement Investment Program
KMC	-	Kolkata Municipal Corporation
NOC	-	no objection certificate
PMU	-	program management unit
ROW	-	right-of-way
SWF	-	storm water flow

## **NOTE**

In this report, "\$" refers to United States dollars.

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## I. INTRODUCTION

### A. Background

1. The Kolkata Environmental Improvement Project Phase 1 (KEIP 1) was a multi-agency endeavour to arrest environmental degradation and improve the quality of life in Kolkata. The aim of KEIP was to provide affordable access to basic urban services, revamp and upgrade the sewerage and drainage system, make the solid waste management system efficient, restore the city's drainage canals, and improve outdoor recreation facilities in parks and water bodies. It also had a stakeholder consultation program and a capacity building component to raise the standards of delivery of municipal services by the Kolkata Municipal Corporation (KMC). Financing was from KMC, Government of West Bengal (GOWB) and ADB. In addition, there was grant financing from the Department for International Development (DFID) of the United Kingdom for the KMC capacity building component of the Project.

2. The civil works under the KEIP Phase 1 were completed on 30 June 2012, the closing date of the ADB loans. Both KMC and ADB wished to continue their combined efforts to improve the urban environment and living conditions in Kolkata, building on results achieved and experience gained. Therefore, a continuation of KEIP was proposed, which was named as the Kolkata Environmental Improvement Investment Program (KEIIP). On 26 September 2013, Asian Development Bank (ADB) approved the provision of loans under a multi tranche financing facility for the Kolkata Environmental Improvement Investment Program (KEIIP, or the Investment Program) for an aggregate amount not exceeding \$400 million. KEIIP consists of three projects or tranches. The KMC is the executing agency of the investment program and a program management unit (PMU) is created under KMC for implementation of KEIIP.

3. The Kolkata Environmental Improvement Investment Program (KEIIP) has been conceptualised as a multitranche program consisting of three projects or tranches. A total of eight subprojects prioritizing sewerage and drainage work are prioritized under Tranche 3 in areas that were not covered under earlier projects/tranches, including improvement of sewerage and drainage system in Mukundapur area and construction of pumping station.

**Table 1: Sewerage and Drainage Packages under Tranche 3**

Package Number	General Description
SD27/2017-18	Improvement of S&D Network and construction of a pumping station in Alipore body guard line premises in ward 74 and laying of sewer line along Diamond Harbour Road by Microtunneling method and Cut & Cover method
SD28/2017-18	Construction of WBSETCL Sewage Treatment Plant (45 MLD)
SD29/2017-18	Construction of Sewage Treatment Plant at Bank Plot (40 MLD)
SD30/2017-18	Construction of Rajpur – Sonarpur Sewage Treatment Plant 30 MLD)
SD31/2017-18	Development of S&D Network in Churial Extension Pumping Station catchment and Diamond Park Catchment and Construction of Churial Extension pumping station (annexed) in borough XVI (Part of Ward 124, 143 and 144)
SD32/2017-18	Improvement of S&D system in Mukundapur Area (Part of Ward 109) including construction of pumping station and improvement of drainage system in Rajdanga Area (Part of ward 107)
SD34/2017-18	Construction of pumping station at Lalababu Nikashi and upgradation of existing pumping station at Shakuntala Park
SD22/2016-17	Development of sewerage and drainage networks in Churial extension canal sub basin in Borough XIII and XVI (Part of Ward no. 122,123, 124) including laying of trunk sewer by microtunnelling method and construction of Churial extension pumping station

MLD = million liters per day, S&D = sewerage and drainage, WBSETCL = West Bengal State Electricity Transmission Company Limited.

## **B. Scope of this Report<sup>1</sup>**

4. This draft land acquisition and resettlement due diligence report (DDR) is prepared for the proposed sewerage and drainage (S&D) subproject SD32/2017-18 that will involve construction of a pumping station in Mukundapur area and development of S&D system within KMC ward number 109. The DDR is based on the draft subproject appraisal report (SAR) (preliminary design) for these components. The draft DDR will be updated during detailed design. Any change in site or alignments during detailed design will require to be assessed afresh for land acquisition, resettlement and rehabilitation impacts.

5. A due diligence process was conducted to examine the land acquisition and resettlement issues in detail, in line with ADB Safeguard Policy Statement 2009. This report describes the findings and provides copies of relevant documents, resolutions, minutes of meetings and photographs. This land acquisition and resettlement due diligence report needs to be read along with the resettlement framework prepared for KEIIP.

6. Upon project implementation, the officer designated for social safeguards at PMU will be required to (i) undertake a review of this due diligence; (ii) prepare a confirmation letter or report documenting any modifications to the subproject; (iii) submit to ADB; and (iv) receive a 'no objection' confirmation from ADB prior to start of construction works in the subproject.

## **II. SUBPROJECT DESCRIPTION**

### **A. Background of Subproject Area**

7. The subproject covers part of ward 109 under Borough XII (Figure 1). A portion of the subproject area, bounded by Eastern Metropolitan Bypass in the West, Lead Channel; branch canal of Tally Panchanna Gram Canal in the north and Gunia Gachi canal in the south, has a sewerage and drainage system with closed conduit (piped/ boxed) network. The existing drainage network functions as a combined system, with most of the households connected to the same. Thus, besides storm run-off, all the conduits (piped or boxed) cater to sullage. Neighbourhoods such as Ajoy Nagar, Indus Valley School, Nayabad Daspara, Budher Hat-Pancha Sayar are devoid of any organized drainage facilities.

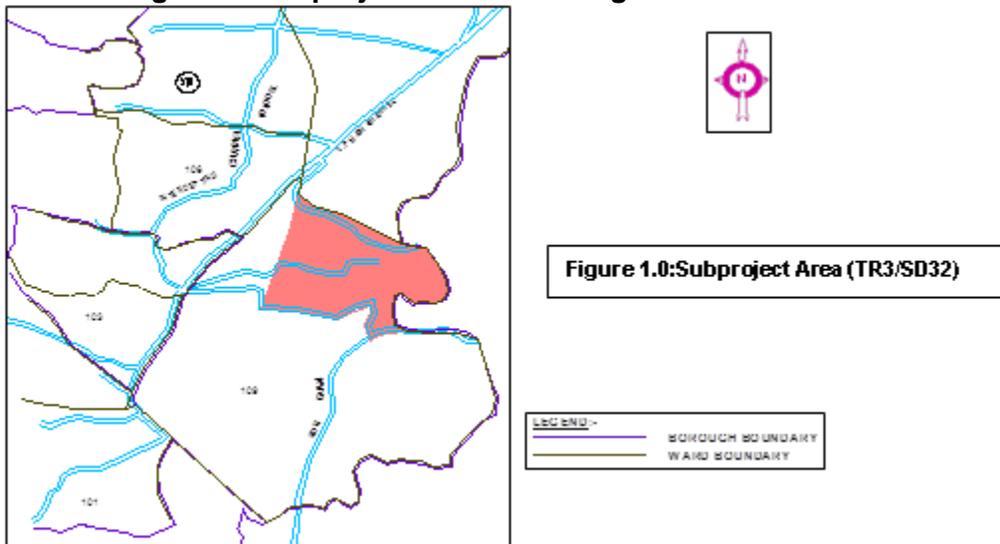
8. The project area gets drained into a canal network system in Tolly Panchanna basin for ultimate disposal to Tolly Panchanna Main canal. The discharge from Tolly Panchanna Main canal is pumped into the storm water flow (SWF) channel through three pumping stations at Chowbagha for ultimate disposal to the Kulti River at Ghusighata.

9. The subproject covers part of ward 109, which falls under Borough XII. Total coverage area of this subproject is 447 hectares (ha), with a design population of about 228,388 (2045).

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<sup>1</sup> This report is prepared on the basis of draft SAR.

**Figure 1: Subproject Area of Package No. SD32/2017-18**



## B. Subproject Description

10. Based on the study of the existing system within the subproject area, it is found that the area gets drained by gravity through outfalls to Guniagachi canal, Lead channel C2 – C3 and the Tolly Panchanna canal through the existing sewerage and drainage network. It is found that the adjoining areas of Rabindra Nath Tagore, Medica and AMRI hospitals get drained into the Gunia Gachi canal through the sewerage and drainage network by gravity. Flows from Purbalok and Jamuna Nagar are drained into Tolly Panchanna canal by gravity and Netaji Nagar and Ahhalla Nagar get drained to Lead channel C2 – C3 by gravity. It is also observed that most of the outfalls are not provided with gates to prevent backflow.

11. Dry weather flow (DWF) generated from the area is conveyed to the existing pumping station 2, located near Santoshpur Jora Bridge through the existing sewers at Kalikapur and Kishore Bharati Stadium.

12. Although a number of gravity outfalls exist to discharge storm water to the canals, these are not functioning properly. Most of the time during the monsoons, the water level of the canals remains higher than the low-lying terrain inside the project area. Hence, standard draining by gravity is greatly hindered.

13. The existing system is not performing satisfactorily. Irregular and inadequate maintenance of the canal system has resulted in heavy siltation that has considerably reduced their carrying capacities. Widespread water logging is seen even during moderate rainfall.

14. Inadequacies of the existing system are as follows:

- (i) Poor drainage networks and absence of organized drainage network in many areas;
- (ii) Inadequate capacities of drains; and
- (iii) Poor or no maintenance of drains resulting in heavy siltation and substantial reduction in their carrying capacities.

15. Need for the subproject is as follows:

- (i) The subproject area is fast-growing in terms of population, but these areas remain water logged during the rainy season. There are areas that get flooded at the beginning of the monsoon and the situation prevails for months. Improvement of sewerage and drainage system in this area is urgently required. A number of site visits have been conducted in the subproject areas to understand the existing drainage pattern of the area. This was done to develop a proper sewerage and drainage system to cater to the waste water and storm water generated within the subproject area. It is understood from the local people that waste water and storm water accumulation is a common phenomenon in this area, therefore, removal/ disposal of the same is urgently required to improve their quality of life.
- (ii) Water logging creates conditions that spread diseases; waterlogged areas often become breeding grounds for mosquitoes, which transmit malaria, filaria and other diseases. To improve public health, alleviation of flooding is needed.

16. The overall objective of the Investment Program is to achieve sustainable economic growth through improved quality of urban life and the urban environment. The main objective of KEIIP is:

- (i) To provide affordable access to water supply and provide sewerage and drainage facilities in KMC; and
- (ii) To enhance quality and sustainability of urban service delivery by institutional reforms and capacity building.

17. The objective of the subproject under Tranche 3 for package no. SD32/2017-18 is:

- (i) To improve the sewerage and drainage system on priority basis which in turn helps to improve environmental condition; and
- (ii) To provide relief from water logging conditions within the subproject area.

**Table 2: Assessment of Involuntary Resettlement Impacts of Proposed Subproject Components**

Project Component	Works Considered to be Taken Up	Land Ownership	Involuntary Resettlement Impact
S&D system in Mukundapur Area (Part of Ward 109) including construction of pumping station	Length of proposed trunk sewer to be laid under this package: 600 mm and above– 5.0 km	Government of West Bengal (GOWB)	No involuntary resettlement impact anticipated. Micro-tunneling alternative selected over open cut method of pipelaying for avoidance of temporary economic impacts.
	Construction of pumping station – 1 no.	Irrigation and Waterways Department, GOWB	Vacant, unused government land. No Involuntary Resettlement impact anticipated.
	Construction of gravity outfalls – 4 nos.	Irrigation and Waterways Department, GOWB	No Involuntary resettlement impact is anticipated as the canal bank is vacant all along
	Laying of DWF Pumping main – Length = 1500 m, dia. = 500 mm	GOWB	Adequate vacant road shoulder available for pipelaying. Hence, no Involuntary Resettlement impact anticipated
	Laying of SWF Pumping main – Length = 2400 m, dia. = 1600 mm	GOWB	Adequate vacant road shoulder available for pipelaying. Hence, no Involuntary Resettlement impact anticipated

DWF = dry weather flow, GOWB = Government of West Bengal, km = kilometer, m = meter, mm = millimeter, S&D = sewerage and drainage, SWF = storm water flow.

Note: Details of owner departments of each road alignment where pipelaying is proposed, are provided in Table 3 below.

18. Table 3 outlines the proposed subproject components to be undertaken in TR-03/SD 32 along with laying of pipelines for pumping mains. For laying of the sewerage and drainage pipelines in the subproject area, the roads have been numbered. Details of the same are provided in Table 3.

19. **Assessment of Alternatives.** Microtunnelling work has been proposed along Mukundapur Main Road (80 m) stretch to avoid temporary economic impact to 66 shops, which had been estimated for a minimum of 1 month if open cut method of pipelaying was proposed. To avoid this impact, microtunnelling is proposed; two pits will need to be constructed, one behind Medica Hospital and the other in front of R.N. Tagore Hospital. At both the spots where pits are proposed, adequate government land is available within the road right of way (ROW) and no impact on traffic or any other impact is anticipated. Microtunnelling cost in this stretch is included in the subproject cost. The PMU proposes to incur this cost rather than temporarily displace the 66 small shopkeepers for 1 month.

**Table 3: Roads Where Sewer Lines are Being Laid under SD32/2017-18**

Road Name	Ownership	Road Width (m)	Diameter of Pipe (mm)	Trench Width with Shoring (mm)	Road Name	Ownership	Road Width (m)	Diameter of Pipe (mm)	Trench Width with Shoring (mm)
Mukundapur Main road	PWD	(11.5 – 16.0)	1200 – 1800	2200 – 3100	Road from Mukundapur Daspara bridge to Mukundapur Main road crossing	PWD	(13.0 – 14.0)	1800	3100
Purbalok Main road	PWD	(7.5 – 9.0)	1200 – 1400	2200 – 2500	Road beside Chitkalikapur Primary School	KMC	(11.0 – 11.5)	1200 – 1400	2200 – 2500
Road beside Razban Sea Food Pvt. Ltd.	KMC	(9.5 – 15.0)	2000	3400	East Santoshpur area	KMC	(4.0 – 12.5)	600 – 1000	1300 – 1900
Road beside AMRI Hospital	KMC	(9.0 – 10.5)	1200 – 1400	2200 – 2500	Road from Guniagachi canal to Mukundapur Main road crossing	PWD	(9.0 – 12.5)	1000 – 1200	1900 – 2200
Road beside Loksanskriti o Adibasi Sanskriti Kendra	KMC	(10.0 – 12.5)	1800 – 2000	3100 – 3400	Road from EM Bypass to Choto Bandhu Sporting Club	PWD	(12.5 – 14.0)	1000 – 1600	1900 – 2800
Road beside (Green Park Setu Bandhan Club to Chitkalikapur Sabuj Sangha Club to Loksanskriti o Adibasi Sanskriti Kendra) to EM Bypass		5.5 – 14.0	500	1150	Road beside (Mukundapur Head Works to Chitkalikapur Sabuj Sangha Club to Loksanskriti o Adibasi Sanskriti Kendra) to Purbalok Main Road to Purbalok North Side Road to EM Bypass		4.5 – 13.5	1600	2800

KMC = Kolkata Municipal Corporation, m = meter, mm = millimeter, PWD = Public Works Department.

### **III. FIELD WORK AND PUBLIC CONSULTATION**

#### **A. Outline of Field Work**

20. In May and June 2017, field inspections were carried out at the proposed subproject sites and alignments. Stakeholder consultations were also conducted. Inspections and transect walks were carried out along the entire stretch of Ward No. 109.

#### **B. Public Consultation**

21. Consultations were undertaken with key stakeholders as per ADB's requirements pertaining to environmental and social considerations. The tool used for consultation was stakeholder meetings. These consultations helped to identify the felt needs/concerns and apprehensions of the communities related to the project and priorities of concerned stakeholders. Discussions were held with people residing at/near the proposed subproject locations. The community is willing to cooperate for the proposed project as water logging in the subproject coverage area is a long-standing problem faced by them. Summary of stakeholder consultation minutes is provided in Table 4 and the stakeholder consultation photographs and list of participants is provided in appendixes.

**Table 4: Summary of Stakeholder Consultation**

Date	Location	No. of Participants	Topics Discussed	Issues Raised	Issues Addressed
7 November 17	NETAINAGR MUKUNDAPUR	(33 female and 3 male)  Residents of the Ward	<ul style="list-style-type: none"> <li>• Introduction of KEIIP as an initiative of Kolkata Municipal Corporation with the financial support of Asian Development Bank for arresting the degradation of environment of Kolkata and adjoining areas.</li> <li>• Need and scope of work of KEIIP.</li> <li>• Underground S&amp;D work to be taken up at Ward No 109 under package SD – 32 of Tranche – III.</li> <li>• There will be no adverse impact on structures, livelihood, transportation and other utilities like electricity, water supply etc.</li> <li>• Technical information i.e. diameter of pipes to be laid along the road, flow of water etc.</li> <li>• Importance of Public participation and public awareness.</li> <li>• Long term Benefits of the project.</li> <li>• Phase wise implementation of the project.</li> <li>• Impact of the project on environment, reducing the chance of water contamination Etc.</li> <li>• Tentative date for commencement of the project.</li> <li>• Necessary arrangements will be done by the project authority before commencing the work, like public information, shifting of utilities etc.</li> </ul>	<ul style="list-style-type: none"> <li>• The commencement of the project work and duration.</li> <li>• Expected timeline to resolve the water logging problem.</li> <li>• Availability of funding for uninterrupted work</li> <li>• Existing water logging during heavy showers, backflow of water from adjoining area happens to be a persistent issue.</li> <li>• Choking of drains, latrines etc. during heavy showers.</li> <li>• Request to think about a long-term plan to resolve the abovementioned issue.</li> </ul>	<ul style="list-style-type: none"> <li>• Regarding the time span for the completion of the project, Social Safeguard Expert, DSC, KEIIP assured the participants that every ADB funded project has a fixed time span. Thus, project implementation is monitored by ADB on a periodic basis in order to ensure that the project is completed within the stipulated time frame provided by ADB.</li> <li>• This project is funded by ADB. Hence there should be no paucity of funds.</li> <li>• Water logging will be abated by ensuring discharge of water into Tolly's Nullah.</li> <li>• Technical information was shared in detail by Junior Engineer, DSC, KEIIP</li> <li>• Beneficial impacts were explained in detail by DSC officials present</li> <li>• It was shared with the participants that a grievance redressal mechanism will be in place for the project to mitigate grievances emerging from the residents during the project implementation phase.</li> <li>• After completion of the S&amp;D network, house drainage connection work will follow.</li> </ul>
7 November 2017	KMC WARD OFFICE WARD NO109	27 female and 5 Male (Residents of Ward)	<ul style="list-style-type: none"> <li>• Introduction of KEIIP as an initiative of Kolkata Municipal Corporation with the financial support of Asian Development Bank for</li> </ul>	<ul style="list-style-type: none"> <li>• The commencement of the project work and duration. Expected</li> </ul>	<ul style="list-style-type: none"> <li>• Regarding the time span for the completion of the project, Social Safeguard Expert, DSC, KEIIP assured the participants that every</li> </ul>

Date	Location	No. of Participants	Topics Discussed	Issues Raised	Issues Addressed
			<p>arresting the degradation of environment of Kolkata and adjoining areas specially water logging problem of the area.</p> <ul style="list-style-type: none"> <li>• Necessities of KEIIP.</li> <li>• Need and scope of work of KEIIP.</li> <li>• Plan for keeping the view of Population explosion under the projection of next 30 years</li> <li>• Loan component of the ADB, purpose of the loan for laying main trunk sewer only.</li> <li>• Tentative commencement of the project.</li> <li>• Open cut method to be adopted for laying S&amp;D network under package SD – 32 of Tranche – III. Total 5 km. network of pipeline will be laid.</li> <li>• Technical information i.e. total length of work, phase wise implementation procedure, diameter of pipes to be laid along the road, flow of water etc, proposal for construction of a new pumping station explained by DSC Engineer.</li> <li>• Importance of Environmental Safeguard explained by Environmental Specialist, DSC</li> <li>• Importance of Public participation and public awareness.</li> </ul>	<p>timeline to resolve the water logging problem.</p> <ul style="list-style-type: none"> <li>• Availability of funding for uninterrupted work</li> <li>• Existing water logging during heavy showers, backflow of water from adjoining area happens to be a persistent issue.</li> <li>• Choking of drains, latrines etc. during heavy showers.</li> <li>• Provision for rain water harvesting.</li> <li>• Request to think about a long-term plan to resolve the abovementioned issue.</li> </ul>	<p>ADB funded project has a fixed time span and is monitored by ADB on a periodic basis to ensure that the project is completed within the stipulated time frame provided by ADB.</p> <ul style="list-style-type: none"> <li>• This project is funded by ADB. Hence, there should be no paucity of funds.</li> <li>• Water logging will be abated by ensuring discharge of water at Tolly's Nullah.</li> <li>• Technical information was shared in detail by Mr. Sourya Chowdhury (Junior Engineer, DSC)</li> <li>• Beneficial impacts were explained in detail by SMU officials present.</li> <li>• The SMU, KEIIP officials explained the Grievance Redressal Mechanism that will be in place for the project (the GRM is already in place for other tranches). It was conveyed to participants that based on convenience of the local people, different options for registration of complaints are available; the options were explained in detail.</li> <li>• Written grievances can be lodged at work site or contractor's office or borough offices. KMC WhatsApp number also available for the same purpose, where people can send photographs along with complaints.</li> </ul>

DSC = design and supervision consultant, GRM = grievance redress mechanism, KEIIP = Kolkata Environmental Improvement Investment Program, KMC = Kolkata Municipal Corporation, SMU = safeguard monitoring unit, S&D = sewerage and drainage.

#### IV. LAND AVAILABILITY

22. Implementation of the subproject will not require any land acquisition or cause any involuntary resettlement impact. Under the sewerage and drainage (S&D) related civil work for the subproject, one pumping station is proposed to be constructed in Barakhola Mouja-Mukundapur on government land in Ward No. 109. Permission from Irrigation and Waterways Department, Government of Bengal will be required for the construction of the proposed pumping station at the location. Four outfalls are also proposed under the said subproject on vacant land of Irrigation Department, Government of West Bengal near Guniagachi Canal.

23. Under this subproject area, different parts, such as Nayabad Daspara, areas adjoining Indus Valley School (Sahid Smriti area, Nabadiganta area etc.), Vivekananda Park, etc. are devoid of S&D network. Effort has been made to prepare a comprehensive S&D plan for these areas. Entire DWF and part of Storm Weather Flow (SWF), generated from these areas is proposed to be conveyed to the proposed pumping station near Lalan Mancha. However, routing of S&D pipelines is proposed through vacant public road ROW which is not anticipated to involve any involuntary resettlement impacts.

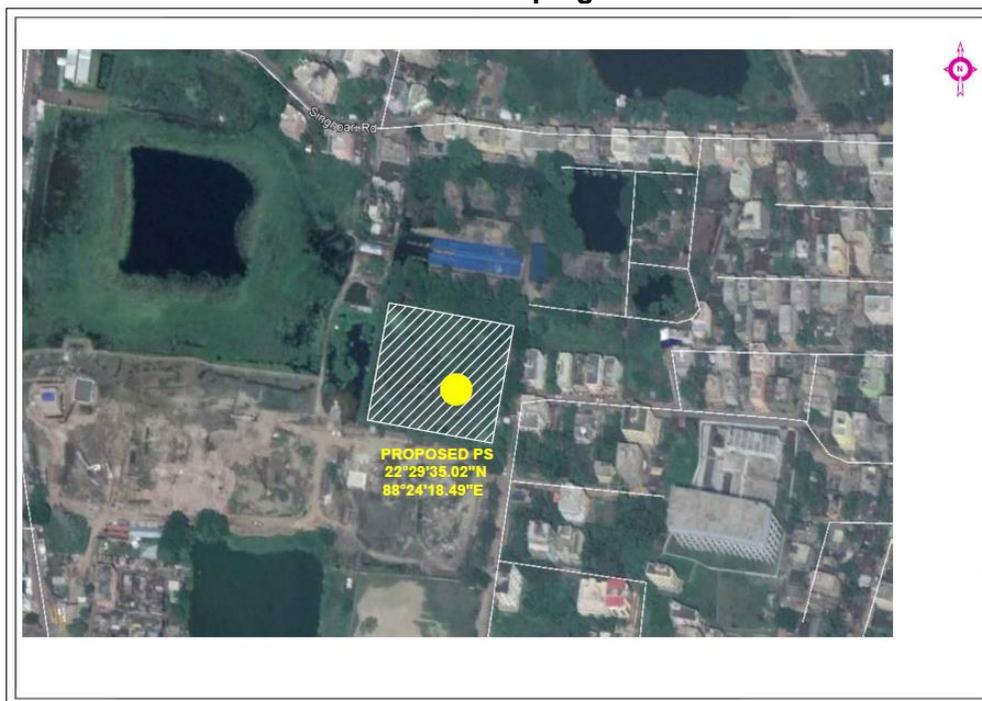
24. Government land has been identified for construction of pumping station at Ward No. 109. The proposed site is a vacant plot and assessed to have no resettlement impact. For minimizing the requirement of SWF pumps and for difficulty for conveying entire combined flow to the proposed pumping station, overflow arrangements to evacuate storm runoff to the canals are also proposed. All the overflow arrangements are proposed to be provided with sluice gates or flap gates to prevent backflow from the canal into the sewerage and drainage network.

25. Construction work in the subproject area has been carefully planned to minimize any disturbance to the local community and pedestrians. The proposed construction work of pumping station will be on a land parcel owned by Government of West Bengal. The land required is 2.10 acres, at Mouza Barakhola, J.L. No. 21, Plot no-136, South 24 Parganas district. Construction work under the subproject will not cause any involuntary resettlement impacts as the proposed plot for the pumping station is a vacant and unused land.

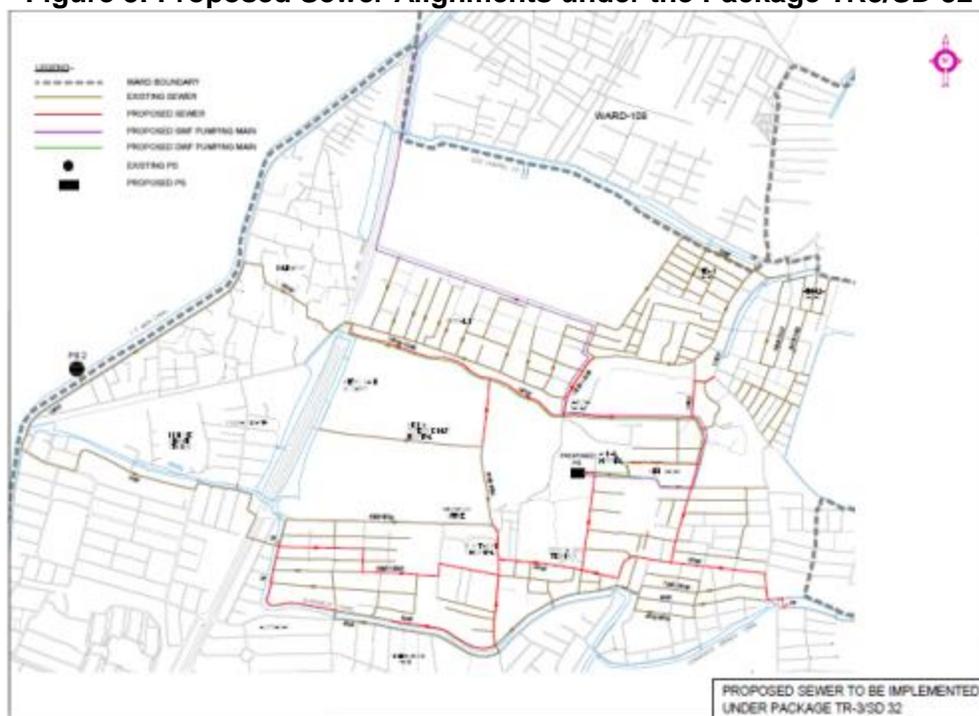
**Table 5: Details of Proposed Land of Mukundapur Pumping Station**

<b>Pumping Station, District</b>	<b>Mouza</b>	<b>J.L. No.</b>	<b>R.S. Plot No.</b>	<b>Full/Part</b>	<b>Area (acres)</b>
Mukundapur	Barakhola	21	136	Full	2.1

**Figure 2: Google Earth Image showing the Roads within the Subproject Area and Location of Pumping Station**



**Figure 3: Proposed Sewer Alignments under the Package TR3/SD 32**



26. Construction of the pumping station and the four gravity outfalls will be on the land owned by the government, hence, no land acquisition is anticipated; also the area is free of any encumbrances and no involuntary resettlement impact is anticipated. The trunk sewer and the DWF mains and SWF mains will be laid along government road ROWs that are free of encumbrances.

## **V. CONCLUSION**

### **A. Summary and Conclusion**

27. The execution of proposed civil works under the subproject is not anticipated to trigger involuntary resettlement impacts. The identified sites for the proposed civil works at all pipe laying zones is proposed along government road rights of way. Temporary disruptions in traffic movement during construction will be mitigated by the contractor through a traffic management plan and simple measures such as proper stacking/storing of construction materials, provision of planks to ensure that pedestrian access to residences is maintained.

### **B. Next Steps**

28. The draft DDR will be updated during detailed design. Any change in site or alignments during detailed design will require to be assessed afresh for land acquisition, resettlement and rehabilitation impacts. The following information needs to be included in the updated DDR:

- (i) No objection certificate (NOC) from Public Works Department (PWD), Government of West Bengal for execution of civil works including laying of trunk sewer, pumping mains and sewerage and drainage pipes along PWD road ROWs.
- (ii) No objection certificate (NOC) will be obtained from Irrigation and Waterways Department, Government of West Bengal, for constructing the outfall arrangement, to Gunia Gachi canal and Guniagachi branch canals at suitable locations for discharging SWF to the said canal.
- (iii) Land ownership transfer papers for land parcel of pumping station.
- (iv) During detailed design, photos of the remaining 3 outfall locations will be provided. However, no impact is anticipated as the canal bank is vacant all along, where outfalls are proposed.
- (v) Photos of pit locations will be included in updated DDR.

29. ADB's approval of the updated DDR needs to be obtained by the PMU based on the final assessment of involuntary resettlement impacts at detailed design stage based on detailed measurement survey.

**Photographs of Pipe Alignments of TR3/SD 32 Subproject Area**



**Nitai Nagar**



**Near Das Para Bridge**



**Mukundapur Road**

**Photographs of Proposed Outfalls on Guniagchi Branch Canals of TR3/SD32 Subproject Area**

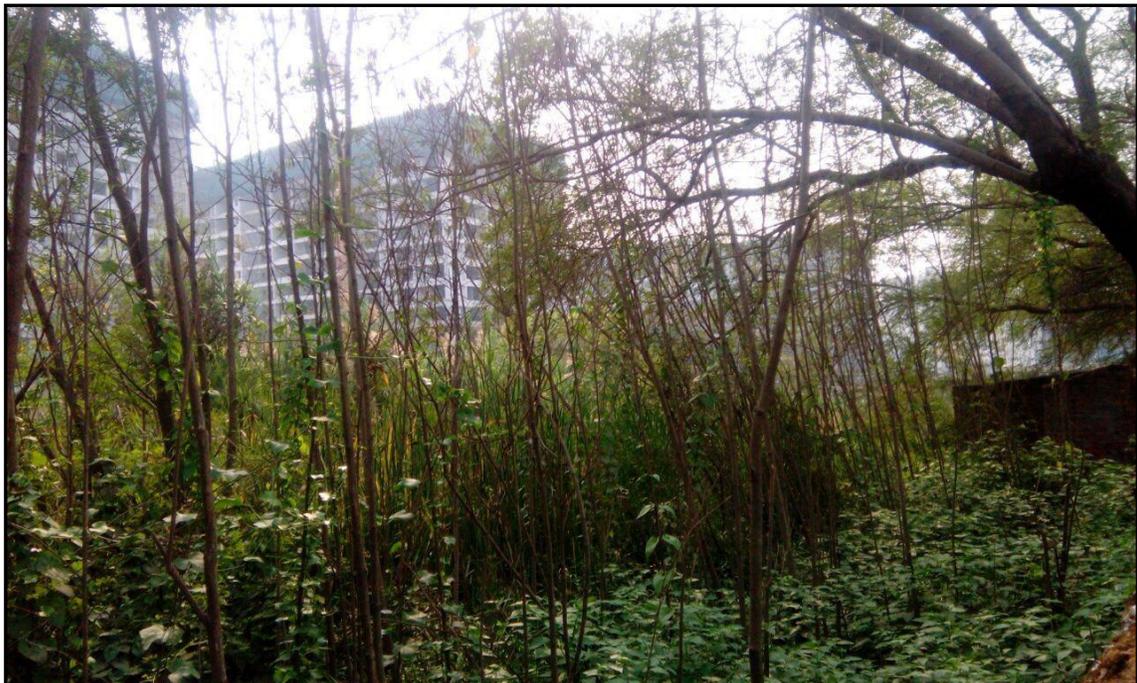


**Proposed outfall location on Guniagchi canal east bank road**



**Proposed outfall location on Guniagchi canal east bank road**

**Photographs of Proposed Land for Sewerage and Drainage Pumping Station at Mukundapur**



### Photographs of Community Consultation

COMMUNITY CONSULTATION, TR – III, SD - 32  
NETAINAGAR, MUKUNDAPUR  
DATE 07.11.17

Councillor of Ward 109 addressing the participants



**PHOTOGRAPHS OF COMMUNITY CONSULTATION , DATE 07.11.17**

**KMC WARD OFFICE, WARD NO. 109, TRANCHE – III, PACKAGE - SD - 32**



## LIST OF PARTICIPANTS OF COMMUNITY CONSULTATION

Kolkata Environmental Improvement Investment Programme

Date 07.11.17 K.M.C. Ward Office, Ward-109  
Place PK9-SD-32/TR III

SL No	Name	Contact No	Signature
01.	Chandana Kistania	9830409284	Chandana Kistania
02.	Bijali Kayal	9831088376	Bijali Kayal
03.	Kalceri Chatterjee	7890901528	Kalceri Chatterjee
04.	Ruma Banerjee	9674624918	Ruma Banerjee
05.	Suparna Bhadra	8017669647	Suparna Bhadra
06.	Simer Das	9748012780	Simer Das
07.	Souhalda	9674429509	Souhalda
08.	Madhabi Paul	9051759290	Madhabi Paul
09.	Amita Das	9830637713	A. Das
10.	J.Das	9143234606	J. Das
11.	Malina Das	9432662933	M. Das
12.	Mahamaya Bose	9836304557	M. Bose
13.	Bani Saha	923904309	B. Saha
14.	Xipannita Ghosh	7059252124	X. Ghosh
15.	Jayanti Ghosh	9433234316	J. Ghosh
16.	Mou Das	8820763071	M. Das
17.	Lakshmi Poddar	8820560133	L. Poddar
18.	Amita Das	9088363288	A. Das
19.	Sumita Das	9062882317	Sumita Das
20.	Sulaba Sanhar	8981432430	Sulaba Sanhar
21.	Soma Somadhar	9831458599	Soma Somadhar



## Kolkata Environmental Improvement Investment Programme

Date 07.11.17

Netaenagar, Mukundapur - Ward - 109  
PK 8 - SD - 32 / TR II Place

Sl No	Name	Contact No	Signature
1.	Kalfali Mondal	8961858826	Rendu
2.	Suparna Roy	9051268165	Suparna Roy
3.	Krishna Majumder	9804012965	Krishna der
4.	সীতাশ্রী দেব	8981287478	সীতাশ্রী দেব
5.	সুমা শ্রী	9681355400	সুমা শ্রী
6.	Sikha Dey	9674220408	S. Dey
7.	Rita Mondal	8777852524	Rita Mondal
8.	Ujjwala Mondal	7890108363	Ujjwala Mondal
9.	Pritul Raptun	9088786006	Pritul Raptun
10.	Sujata Roy	9062618940	sujata roy
11.	Babu Das	8697481704	B. Das
12.	সীতাশ্রী দেব	8961858826	সীতাশ্রী দেব
13.	Swapna Roy	9831486253	Swapna Roy
14.	শ্রীমতী সীতাশ্রী দেব		
15.	Shikha Mondal	9830703249	Shikha Mondal
16.	Pritul Bera	8017286711	Pritul Bera
17.	সীতাশ্রী দেব		সীতাশ্রী দেব
18.	Monika Purkait	8334019837	Monika Purkait
19.	Surmi Das	7044966096	Surmi Das
20.	Pritul Das	8479083559	Pritul Das
21.	Barsha Das	9051427721	Barsha Das

## Kolkata Environmental Improvement Investment Programme

Date 07.11.17 Mukundapur, Netaji Nagar, Ward-109 Place

SL No	Name	Contact No	Signature
1	বীণা বসু 84207880225		
21	সুশীলা দেবী 9163455733		
22	সুশীলা দেবী		
23)	Bhaskari Naskar	9674083044	210 Netajinagar
24)	Chandana Das 9903778177		
25)	সীতালী দেবী মমতা মল্লিক		
27)	বীণা বসু		
28)	সীতালী দেবী		
29)	Joyanti Sarkar	9874323981	66 Chitkalaipur
30	Moumi Khanna		
31)	Sibani Naha সুধা দেবী সুধা দেবী	9874471510	87 Chitkalaipur
	Sampa Karmakar		
	Tumpa Karmakar সুধা দেবী সুধা দেবী	9123654076	Thun Kare

### REQUISITION FOR INTERDEPARTMENTAL TRANSFER

832  
 CENTRAL DAK SECTION  
 MPL. CC&D DEPTT.  
 13 SEP 2017  
 Regd. No. 6983  
 From: M.P.L. Secy

Project No. 3898  
 21/9/17



Government of West Bengal  
 Office of the Additional District Magistrate and  
 District Land & Land Reforms Officer  
 South 24 Parganas  
 New Treasury Building (8th & 9th Floor)  
 Alipore, Kolkata-700027.

PD (WB) Lt.  
 Ch. v. r. S.  
 DA (S&D)  
 DA (T.N.)  
 KOLKATA MUNICIPAL CORPORATION  
 Mpl. Secy. Dept.  
 RECEIVED  
 17 SEP 2017  
 13-137  
 Date.....  
 Signature..... Dated.....

Memo No. XVIII / /LR-ATM-03 /17

To  
 The Block Land and Land Reforms Officer  
 ATM Kasba, South 24-Parganas

AO  
 For assistance follow up - M.  
 21/9/17  
 Municipal Commissioner  
 Kolkata Municipal Corporation

**Sub :** Status report of land at Mouza - Kalikapur, J.L. No. 20, Plot No. 383 area - 9.59 acres and Mouza - Barakhola, J.L. No. 21, Plot No. 136, area - 2.10 acres for construction of pumping station and STP for development of S & D system in Mukundapur area

**Ref :** Memo No. CON/Com/151/2017-18 Dated 08.08.17. of Municipal Commissioner, Kolkata Municipal Corporation

In the context of the above mentioned subject and reference find the copy of the letter which will speak for itself. He is requested to submit the status report of Plot No. 383 at Mouza - Kalikapur, J.L. No. 20 and Plot No. 136 at Mouza - Barakhola, J.L. No. 21 for construction of pumping station and STP for development of S & D system in Mukundapur area and if feasible, send a formal proposal for Inter Departmental Transfer of land in favour of Urban Development and Municipal Affairs Department, Govt. of West Bengal

- 1)Authenticated copy of R.O.R.
- 2)Sketch map of land authenticated by concerned B.L.& L.R.O.
- 3)Spot verification report of R.I./ Amin regarding present status of land.
- 4)Whether land is free from encroachment and free from litigation/court cases.
- 5)Whether the land is patta effected or not.

sdt  
 Additional District Magistrate and  
 District Land & Land Reforms Officer  
 South 24 Parganas

Memo No. XVIII / 3857/1(2) LR-ATM-03 /17

Dated 25.08.2017

Copy forwarded for information to:

1. The Municipal Commissioner, Kolkata Municipal Corporation, 5, S. N. Banerjee Road, Kolkata - 700013.
- 2.The OSD & EO Assistant Secretary, to the Govt. of West Bengal, L&LR & RR&R Department, L.R.AIII-GE(M), Nabanna, 325, Dr. Sarat Chatterjee Road, Howrah - 711102

S.O(L)  
 W.

20/9/17  
 Additional District Magistrate and  
 District Land & Land Reforms Officer  
 South 24 Parganas

*AO - Land Officer*  
*M. note & of Action up*  
*per motion.*  
*09/8/17*

Khalil Ahmed, I. A. S.  
 Municipal Commissioner



The Kolkata Municipal Corporation  
 Central Municipal Office  
 5, S.N. Banerjee Road  
 Kolkata-700 013  
 Phone- 2286-1234  
 Fax- 2286-1334

Memo No. Con / Com / 151 / 2017-18

Dated... 08.08.2017

To  
 The District Magistrate and Collector  
 South 24-Parganas  
 Alipore  
 Kolkata - 700 027



Subject:- Transfer / handing over possession of land at Mouza- Kalikapur, J.L. No.-20 and Barakhola, J.L. No. 21 required for construction of pumping station and STP for development of S & D system in Mukundapur area (part of Ward No. 109)

Sir,

This is to inform that piece and parcels of land as noted below have been earmarked through joint inspection with the representative of the B L & L R O, A T M Block, Kasba, for construction of pumping station and STP for development of S & D system in Mukundapur area (Part of Ward No. 109). It is reported by the B L & L R O that said lands are vested to the state.

Particulars of lands:

- A. Mouza – Kalikapur, J.L. No. 20  
 Part of Plot No. 383 out of total area of 9.59 acres, reported as fully vested.  
 Area of earmarked land – as shown in the drawing enclosed.
- B. Mouza – Barakhola, J.L. No. 21  
 Part of Plot No. 136 out of reported vested area of 2.10 acres  
 Area of earmarked land – as shown in the drawing enclosed.

It is requested to kindly make necessary arrangement for inter Departmental transfer of the lands and its subsequent transfer to KMC.

This may kindly be treated as most urgent.

Thanking you.

Enclo:  
 Copy of drawing of the earmarked lands.

Memo No. Con / Com / 151 (1) / 2017-18

Copy to:  
 The Project Director, KEIIP.

Yours truly,

*Khalil Ahmed, I. A. S.*  
 Municipal Commissioner

Dated... 08.08.2017

*Khalil Ahmed, I. A. S.*  
 Municipal Commissioner