

Land Acquisition and Resettlement Due Diligence Report

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IND: Kolkata Environmental Improvement Investment Program
(TR02 WS17)

Prepared by Kolkata Municipal Corporation (KMC) for the Asian Development Bank.

This due diligence report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

CURRENCY EQUIVALENTS

(as of 22 April 2016)

Currency unit	=	Rupee (INR)
INR 1.00	=	USD 0.01504
USD 1.00	=	INR 66.4893

ABBREVIATIONS

ADB	-	Asian Development Bank
BPL	-	below poverty line
DH	-	Diamond Harbour Road
ESR	-	elevated service reservoir
GP	-	gram panchayat
IR	-	involuntary resettlement
KEIP	-	Kolkata Environmental Improvement Project
KEIIP	-	Kolkata Environmental Improvement Investment Program
KL	-	Kiloliter
KMC	-	Kolkata Municipal Corporation
MFF	-	multi-tranche financing facility
NOC	-	No Objection Certificate
PHED	-	Public Health Engineering Department
PS	-	pumping station
ROW	-	right of way
S&D	-	sewerage and drainage
STP	-	sewage treatment plant
LPS	-	liters per second
UGR	-	underground reservoir
WBSECTL	-	West Bengal State Electricity Transmission Corporation Limited

CONTENTS

	Page
I. INTRODUCTION	1
A. Background	1
B. Scope of this Report	1
II. SUBPROJECT DESCRIPTION	2
III. FIELD WORK AND PUBLIC CONSULTATION	2
A. Outline of Field Work	2
B. Public Consultation	2
IV. LAND AVAILABILITY AND RESETTLEMENT IMPACTS	5
A. Distribution pipelines and house service connections	5
V. CONCLUSIONS	6
A. Summary and Conclusions	6

List of Appendixes

1. Summary of Community Consultation

I. INTRODUCTION

A. Background

1. On 26 September 2013, the Asian Development Bank (ADB) approved the provision of loans under a multitranche financing facility (MFF) for the Kolkata Environmental Improvement Investment Program (KEIIP or the Investment Program) for an aggregate amount not to exceed \$400 million. The impact of the Investment Program will be improved access to water supply and sanitation in Kolkata Municipal Corporation (KMC). The outcome will be improved water supply, sewerage and drainage service quality and operational sustainability in selected areas of KMC. KEIIP has three outputs: (i) inefficient water supply assets rehabilitated; (ii) sewerage extension to peripheral areas continued;¹ and (iii) financial and project management capacity further developed. KMC is KEIIP's executing agency. A project management unit (PMU) created under KMC is implementing KEIIP.

2. The proposed Project 2, supported by the tranche 2 of KEIIP, will include physical and non-physical investments in water supply and sanitation improvement in KMC. Project 2 is aligned with improved access to water supply and sanitation in KMC as defined by the Investment Program. A total of eight contract packages for sewerage and drainage work are proposed under Project 2. For water supply, a total of six contract packages are proposed. Kolkata Municipal Corporation (KMC) is in the process of preparing project proposals for all proposed subprojects under Project 2 to ensure high project readiness.

3. Water supply packages identified for implementation under tranche 2 include: (i) Construction of 2 underground reservoirs (UGR) and pumping stations (PS) at Prantik Ph III and Company Pukur; 6 elevated service reservoirs (ESRs) at Prantik Phase III, North-East of South Suburban East (SSE) sewage treatment plant (STP), North-West of SSE STP, Company Pukur, WBSETC, 22 Bigha, under package TR-2 WS15; (ii) laying of transmission main from existing Daspara PS to UGRs at Prantik Ph III and Company Pukur; and transmission main from UGRs to 8 elevated service reservoirs (ESRs - 6 proposed and 2 existing), under package TR-2 WS 16; (iii) Laying of distribution system and house connection within the command area of 8 ESRs (6 proposed and 2 existing), under package TR-2 WS 17; (iv) construction of ESR at Ramkantapur, Malpara, Charaktala; laying of transmission main from UGR at Company Pukur to 3 ESRs; and laying of distribution system and house connection within the command area of 3 ESRs, under package TR-2 WS 18; (v) dedicated water supply transmission main from the junction of James Long Sarani to Daspara near existing pumping station along James Long Sarani under package TR-2 WS 24; and (vi) water loss management under Jay Hind WTP Area (Eastern Kolkata), under package TR-2 WS 25.

B. Scope of this Report

4. This land acquisition and resettlement due diligence report is prepared for the proposed water supply contract package TR-2 WS17, laying of distribution system and house connection within the command area of 8 ESRs (6 ESRs proposed under different packages of KEIIP Project 2, and 2 existing ESRs).. A due diligence process was conducted to examine land acquisition and resettlement issues in detail, in line with ADB SPS 2009. This report describes

¹ The 1899 Calcutta Municipal Act defined the administrative domain of the municipal authority as covering 25 wards and having an areal extent of 48.5 square kilometers. Many boundary changes followed, the latest one in January 1984 when Boroughs XI, XII, XIII, XIV and XV were annexed to KMC. These boroughs in the peripheral areas, are popularly known as "added areas".

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.

5. Upon project implementation, the Social Safeguard Officer at PMU will be required to undertake a review of this due diligence, prepare a confirmation letter or report documenting any modifications for the subproject and submit to ADB; and receive a 'no objection' confirmation from ADB prior to start of construction related to the subproject.

II. SUBPROJECT DESCRIPTION

6. The areas added to the city of Kolkata after 1984 ('added areas') have major gaps in supply of potable water. The subproject location is at the southern part of KMC area. Surface water from River Hooghly is presently supplied by PHED in this area. The water presently being supplied by State PHED is inadequate to meet the demand of the subproject area. Need for an improved water supply system is identified for successful service delivery of potable water. The overall objective of the water supply subproject in Project 2 is to enhance the service levels using a phased approach, to arrive at the target service levels.

7. Under project 2 water supply package TR-2 WS17, proposed components include: Table 1 provide details of proposed components under package WS17.

Table 1: Proposed Components under package TR-2/WS 17

S. No.	Proposed Components	Capacity / Length / No.
I. Distribution Pipeline		
1	Under command of ESR A1 (existing)	21 Km
2	Under command of ESR A2	48 Km
3	Under command of ESR A3	38 Km
4	Under command of ESR A4	27 Km
5	Under command of ESR B1	24 Km
6	Under command of ESR C1 (existing)	30 Km
7	Under command of ESR C2	28 Km
8	Under command of ESR C3	29 Km
II. House Connections		
1	No. of water supply house service connections	29105

III. FIELD WORK AND PUBLIC CONSULTATION

A. Outline of Field Work

8. In December 2015 and January 2016, field visits and stakeholder consultations were carried out at the proposed subproject sites and alignment locations.

B. Public Consultation

9. Stakeholder consultation for this package (TR-2 WS17) was undertaken along with consultations for packages TR-2 WS16 and WS18, as pipelines under the three packages are proposed in proximal areas. Stakeholder meetings and consultations helped identify the felt needs/concerns and apprehensions of the communities related to the project, and priorities of

concerned stakeholders. Discussions were held with (60 persons, of which 41, or 68% were women) people residing at/near and/or having businesses at/near the proposed subproject locations. A summary of discussions held is given in Table 1.

10. The form of consultation used was stakeholder meeting. Consultations reveal that people (residents and businessmen) are aware of the inadequacies of the existing water supply system, and are therefore willing to cooperate for execution of the proposed project. It was explained that while some disturbances to traffic may be possible during execution, the roads would not need to be closed, and access to all properties/structures along the road would be maintained. People expressed concern about affordability of water tariffs and connection charges.

11. The field visits and interactions helped ascertain that no permanent relocation or loss of land or structures or temporary or permanent economic impacts are anticipated as a result of the proposed subproject. Hence, further survey and inventories are not required. The following Table 1 provides a summary of consultations and discussions held with shop-owners, residents of ward 142, and ward councilor.

Table 2: Summary of Consultations with Stakeholders for TR-2 packages WS16-18

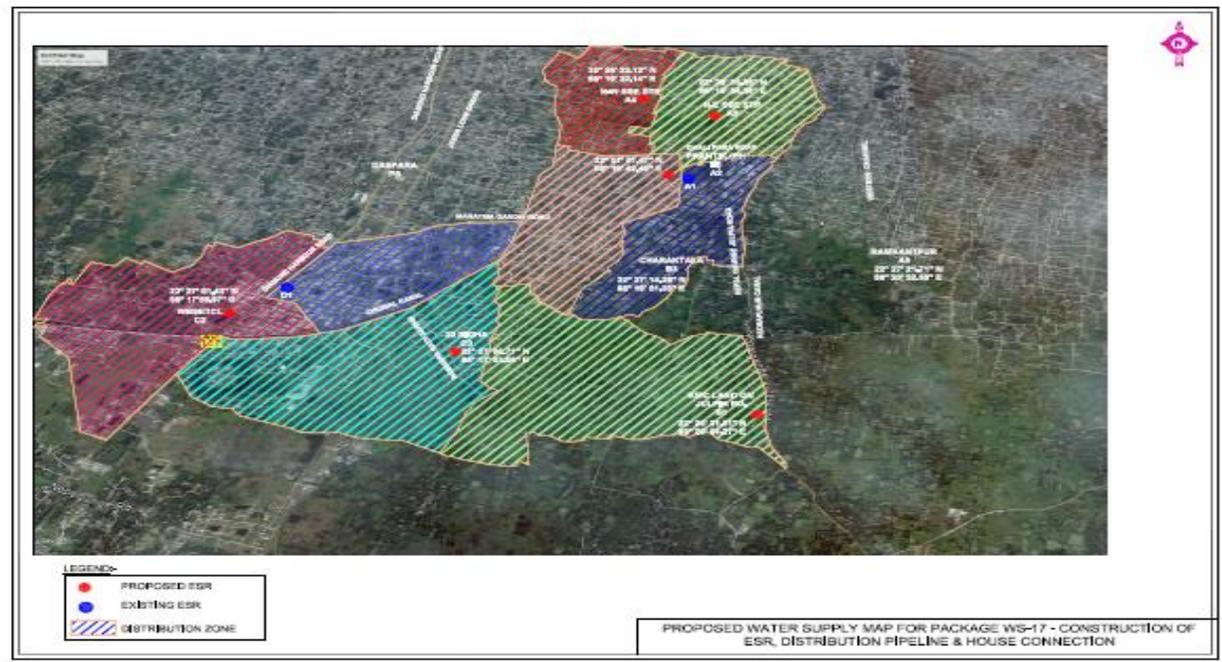
DATE	LOCATION	NO. OF PARTICIPANTS				EMPLOYMENT STATUS OF PARTICIPANTS	TOPICS DISCUSSED	ISSUES RAISED
		MALE	FEMALE	% of Female	TOTAL			
18.12.15	Indira Udyan, Julpia Road, Ward No 142	19	41	68.33%	60	<p>MALE: Employees in private sector/government, and businessmen,</p> <p>FEMALE: Housewives</p>	<ol style="list-style-type: none"> 1. Relevant information about the upcoming project (technical information on proposed facilities in the ward; and environmental health issues expected to be addressed). 2. KMC's future plan to supply drinking water in the adjoining area of Joka, Behala under Borough- XVI. 3. Water supply improvements to be taken up at ward no. 142 as a part of the subproject under packages WS-15 to WS-18 of Tranche – II. 4. The plan and design has been prepared to supply drinking water house-to-house for 24 hrs. a day to cover 100% area of the ward, on completion of the distribution network. 5. Need for public participation and awareness. 	<ol style="list-style-type: none"> 1. Likely date of commencement of project work 2. Date of commissioning of the project. 3. Scarcity of drinking water in areas like Jiardar Ghat. 3. Water supply network coverage in remote parts of the ward/tail end. 4. Policy regarding connection charge. 5. Quality and quantity of the water to be supplied after completion of the project. 6. Whether connection charge and tariff will be affordable

IV. LAND AVAILABILITY AND RESETTLEMENT IMPACTS

A. Distribution pipelines and house service connections

12. All civil works for laying of pipelines proposed under the subproject are within the ROW of government roads. No additional land will be required for the proposed subproject and no structure will be affected due to the civil work undertaken for the laying of the pipeline. Based on field visits and transect walks, it was assessed that it will be possible to maintain access to shops and residences; hence no IR impacts are anticipated. Prior notice will be given to the community before start of civil work. Mobile vendors as well as those with moveable structures will be assisted to shift to nearby places during the period of civil works, where they will be able to continue with their business until they are assisted to move back, when civil works for the stretch is completed; hence will not be affected.² Where businesses are unable to or are not required to shift, access will be ensured by the contractor by avoiding excavation of adjacent footpaths and/or by providing planks for pedestrian access. Potential disruptions at pipe crossings at congested, commercial areas are to be mitigated by undertaking night work and minimizing the construction period. House service connections will be carefully executed by the contractor, avoiding/restoring any small damage to private property. No incidents of tree cutting and minimal utility shifting is anticipated as a result of proposed subproject components. Once detailed design is completed and the exact location of trench for pipelaying is known along each road, IR impacts will need to be reassessed and the DDR updated. The following Google earth map depicts the proposed components of package TR-2/WS 17.

Figure 1: Google Earth Map Depicting Proposed Subproject Components under TR-2/WS17



² Mobile hawkers will not be affected as they will be able to shift to nearby locations to continue plying their trade.

V. CONCLUSIONS

A. Summary and Conclusions

13. No significant IR impacts are assessed at identified sites for the proposed sub-project components under package TR-2 WS17, as the entire pipe alignment is proposed within government road ROW. Some disruption of traffic during construction is possible; however, this will be mitigated with proper traffic management planning by the contractor, in discussion with local authorities and the community.

14. A budgetary provision is made for costs likely to be incurred by the PMU for updating this due diligence report (INR 50000), consultation, communication and grievance redress (INR 50000), contingencies (15%, i.e., INR 15000), adding up to INR 115000.

B. Next Steps

15. The DDR needs to be updated with the following information:

- (i) Transect walk and Detailed Measurement Survey (DMS), marking of excavation for pipe alignment, and documentation of DMS results.
- (ii) Continued consultations with the community and record of their concerns and issues, if any.
- (iii) On finalization of detailed design, the DDR needs to be re-assessed and results of reassessment presented.
- (iv) In case of any unforeseen IR impacts are identified upon the completion of final detail design or design / alignment changes, the DDR needs to be re-assessed and the required RP will be prepared and submitted to ADB for review and endorsement.

16. ADB approval on the updated DDR based on the final assessment at detailed measurement survey stage needs to be obtained by the PMU prior to start of construction.

PHOTOGRAPHS



PHOTOGRAPHS OF ROAD WATER WORKS
17



Summary of Community Consultation Meeting Ward No. 142, Indira Udyan, Julpia Road

A community consultation meeting was conducted on 18th December 2015 at Indira Udyan, Julpia Road for information dissemination and sharing of views and concerns, if any on the upcoming Water Supply project under Package WS-16 to WS-18 of Tranche – II, KEIIP.

The consultation meeting was organized by Shri. Raghunath Patra, the councilor of Ward No-142. The meeting was conducted in the presence of Social Safeguard Specialist (SSS), and staff of Safeguard Monitoring Unit, KEIIP. A total of 41 female and 19 male participants (total 60 participants) were present during the meeting, which continued for one hour. Information was exchanged regarding project work.

Among the female participants, all were housewives. The male participants were mainly businessmen and employees in government or private organisations.

Information shared on following topics:

- 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.
- Need and scope of work of KEIIP.
- KMC is planning to undertake a water supply project in Joka and adjoining areas which are now at the planning stage. By virtue of this project the problem of scarcity of drinking water will be catered.
- Water supply project to be taken up at Ward No 142 as a part of the entire project under package WS-15 to WS-18 of Tranche – II.
- 4 ESR (Elevated Service Reservoir), 1 UGR cum PS (UGR- Underground Reservoir, PS-Pumping Station), has been proposed in the plan in this ward.
- Entire plan and design has been prepared to supply drinking water house-to-house for 24 hours in a day and cover 100% area of the ward after completion of entire distribution network.
- Availability of land for proposed 4 ESR at Ramkantapur, Malpara, Charakatala, Company Pukur and 1 UGR cum Ps at Company Pukur respectively. Company Pukur will be taken up first.
- There will be no adverse impact on structures, livelihood, transportation and other utilities like electricity, water supply etc.
- Importance of public participation and public awareness. In case of short term inconvenience during implementation phase of the project i.e. laying of distribution line, traffic diversion etc., cooperation of the public will be required.
- Long term benefits of the project.
- Phase wise implementation of the project.
- Impact of the project on environment, design elements aimed at reducing the chance of water contamination etc.
- Tentative date for commencement and commissioning of the project.
- Necessary arrangements will be made by the project authority before commencing the work, like public information dissemination, shifting of utilities etc.
- Cooperation is needed from the local residents during project implementation phase.

Issues raised by the participants:

- The time of commencement of the project work and its duration.
- Quality of the water that is being supplied at present by PHE (Public Health Engineering Dept.) through big dia and small dia tube wells is not up to the mark for drinking (quantity of iron is above than normal range and salinity is also present).
- Quantity of water supplied is inadequate to cater to the increasing demand.
- Certain areas of the ward experience acute water scarcity, e.g.
- Water supply pipes are broken in many places as a result wastage and contamination of water is common feature.
- Policy of house connection in case of joint properties recorded in Kolkata Municipal Corporation (erstwhile Joka gram panchayet).
- Network coverage in remote parts of the ward.
- Affordability of connection charges and water tariffs

PHOTOGRAPHS OF COMMUNITY CONSULTATION



Councilor of Ward 142 addressing the crowd during Community Consultation at Indra Udyan, Ward No. 142



Social Safeguard Officer, KEIIP, Dr. Manjari De addressing the crowd during Community Consultation at Indra Udyan, Ward No. 142



Participants List

Name of place (Ward No) 142, Indira Udyan
Date 18/12/2015 Julpia Road

Sl.No	Name of Participants	Contact No, if any	Signature
1	Gula Samanta	9681792278	Gula Samanta
2	Shikhi Das	7890640575	Shikhi Das
3	Subrata Das	8017732639	Subrata Das
4	S. Das	.	
5	Subrata Das		
6	Subrata Das		
7	Subrata Das		
8	Hima Biswas	9163274850	
9	Subrata Das	8697530719	
10	Manda Bose		Manda Bose

Raghnanda Patra

1 of 6

Participants List

Name of place (Ward No) 142

Date: 18/12/2015

Sl.No	Name of Participants	Contact No, if any	Signature
11	Sanku Bose		
12	Balazaramma	8820680224	
13	Santosh Das	8017576414	
14	ବିନୟ କୁମାର		T.S
15	Lopam Kony	8013575672	
16	ଉତ୍ତମୀ ଚିନ୍ମୟା	7278360409	A. B
17	ଲୀଳା ସତ୍ପାଠ	9331815428	ଲୀଳା ସତ୍ପାଠ
18	Lakshmi Mal	7890616830	Lakshmi Mal
19	Sina Mal		ସିନା ମାଲ
20	Pravara Devi Kanjil		Pravara Devi Kanjil

Rajman Das

2 of 6

Participants List

Name of place (Ward No) 142

Date 18/12/2015

Sl.No	Name of Participants	Contact No, if any	Signature
21	Aroli Makhel	9836597141	Aroli Makhel
22	Kalyani Baichi	833497752	Baichi
23	Sulekha Bax	8013147191	S. Bax
24	ਗੁਰਮਿੰਦਰ ਸਿੰਘ	801345022	
25	Rajesh Singh	9051674638	R. Singh
26	Kokan Sol.	9870487302	
27	Anjali Khan	9748613002	AK
28	Rajesh Mondal	8653385137	R. Mondal
29	Basudev Gajen		
30	ਸੁਖਵਿੰਦਰ ਸਿੰਘ		



3 of 6

Participants List

Name of place (Ward No) 142

Date 18/12/2015

Sl.No	Name of Participants	Contact No, if any	Signature
31	शशि शिवाजी	8584969303	
32	शशि शिवाजी		शशि शिवाजी
33			शशि शिवाजी
34			Champa Bof
35		7686877910	Murmun Barun
36			Jaya Monal
37			शशि शिवाजी
38	शशि शिवाजी		शशि शिवाजी
39	शशि शिवाजी		
40	शशि शिवाजी	803362441	

शशि शिवाजी

4 of 6

Participants List

Name of place (Ward No) 142

Date 13/12/2015

Sl.No	Name of Participants	Contact No, if any	Signature
41	Mamata Borman	9007110366	Mamata Borman
42	পিত্তা ব্রডার	9007870876	Pitita Broder
43	ডাঃ ডাঃ নাথানা		ডাঃ ডাঃ নাথানা
44	অশীষা সিং		অশীষা সিং
45	কমলী দেবী	9909823393	কমলী দেবী
46	কুমারী সানুজ		
47	সিদ্ধা সর্দার		
48	সার্বদেবী দেবী	9239014800	
49	Omito David		
50	Tapati Bhambhani	9836173169	



546

Participants List

Name of place (Ward No): 142

Date: 15/12/2015

Sl.No	Name of Participants	Contact No, if any	Signature
51	गिरीश मंडल		
52	अशोक चौधरी		
53	सुधीर कुमारी		
54	सुरेश कुमार		
55	ASHOK KR JHA	9062101892	ASHOK KR JHA
56	Prashanto-	8981146023	Prashanto-
57	Krishna Pal	9748525723	Krishna Pal
58	Prakash Hazra	9330072354	Prakash Hazra
59	गिरीश मंडल		giri sh mandal
60.	सुधीर कुमारी		

6 of 6