

Land Acquisition and Resettlement Due Diligence Report

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IND: Kolkata Environmental Improvement Investment Program (TR2 SD19)

Prepared by Kolkata Municipal Corporation 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
KEIIP	-	Kolkata Environmental Improvement Investment Program
KMC	-	Kolkata Municipal Corporation

CONTENTS

	Page
I. INTRODUCTION	1
A. Background	1
B. Scope of this Report	1
II. SUBPROJECT DESCRIPTION	2
III. FIELD WORK AND PUBLIC CONSULTATION	3
A. Outline of Field Work	3
B. Stakeholder Consultation	3
IV. LAND AVAILABILITY AND RESETTLEMENT IMPACTS	5
V. CONCLUSION	5
A. Summary and Conclusion	5
B. Next Steps	6

I. INTRODUCTION

A. Background

1. On 26 September 2013, the Asian Development Bank (ADB) approved the provision of loans under a multitranche financing facility 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 first loan under it, Tranche 1 or Loan 3053-IND, amounting to \$100 million, was approved by ADB on 22 October 2013, signed on 3 March 2014 and made effective on 30 May 2014. Project 1, supported by tranche 1, included subprojects for improvement of infrastructure, operations and sustainability in sewerage, drainage and water supply in KMC.

3. The proposed Project 2, supported by the proposed 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.

4. A total of nine civil works packages for sewerage and drainage work are proposed under Project 2. These include: (i) sewerage and drainage work and construction of 1 pumping station in ward no. 114 (package TR-2 SD 09); (ii) development of sewerage and drainage network in Rania box catchment including outfall structure (package TR-2 SD 10); (iii) development of sewerage and drainage network in Rania box catchment and Vivekananda Road catchment including one combined pumping station and outfalls (package TR-2 SD 11); (iv) laying of a trunk sewer along James Long Sarani (package TR-2 SD 12); (v) development of sewerage and drainage network including outfall structures in wards 123 and 124 (package TR-2 SD 13); and (vi) sewerage and drainage network in boroughs XIII and XIV (package TR-2 SD 14); (vii) sewerage and drainage mains and 2 pumping stations (augmentation of Keorapukur MPS) in Tolly's Nullah/Keorapukur Sub-basin in Borough XIII (Ward 115 and part of Ward 122) (package TR-2 SD 19); (viii) sewerage and drainage mains and pumping stations in Churial Extension Catchment in Borough - XIII & XVI, covering part of wards 122, 123 and 124 (package TR-2 SD 22); and (ix) construction of new pumping station at Lalababu Nikashi/Bagjola Canal (package TR-2 SD 23).

B. Scope of this Report

5. This land acquisition and resettlement due diligence report is prepared for the proposed construction of sewerage and drainage mains and two pumping stations in Tolly's

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".

Nullah/Keorapukur Sub-basin in Borough XIII, covering Ward 115 and part of Ward 122, under KEIIP Project 2, package-TR-2/SD 19.

6. A due diligence process was conducted to examine the land acquisition and resettlement issues in detail, in line with ADB SPS 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.

7. Upon project implementation, the Officer designated for social safeguards 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 in the subproject.

II. SUBPROJECT DESCRIPTION

8. The new areas added to the city of Kolkata after 1984 ('added areas') have major sewage and drainage disposal problems. Major portions of the added areas are devoid of any organized drainage system and served only by surface drainage system carrying both sullage and storm runoff. The proposed subproject lays special emphasis on minimizing the drainage problems in a section of the added area, and aims to contribute to its overall environmental upgradation.

9. The proposed package-TR-2/SD 19 comprises the following components: (i) laying of trunk sewers of dia 600 mm and above (9.13 km) and of dia below 600 mm (0.16 km), using open cut method, and laying of pipe below canals (with 1800 mm dia) using jacking pushing method in ward 114, which will entail excavation for pit of dimension 6.0 m x 5.0 m x 7.5 m; (ii) construction of two combined pumping stations, including modification of the existing LS-5 pumping station from dry weather flow (DWF) pumping station to Combined pumping station (proposed as Kudghat pumping station), and modification of the existing Keorapukur MPS to a combined pumping station; (iii) construction of gravity outfalls (7 nos; including 1 no. to Tolly's Nullah and 6 nos. to Keorapukur Canal); (iv) laying of DWF pumping main from Kudghat pumping station, with a proposed length of 320 m, and (v) laying of SWF pumping main from Kudghat pumping station to Tolly's Nullah, having a length of 50 m, and from Keorapukur MPS to Keorapukur Canal (170 m).

Table 1: Summary of Proposed Civil Works under Package TR-2/SD 19

Project Component	Works considered to be taken up
Development of S&D network in Mahatma Gandhi Road catchments and Taramoni Ghat Road catchment under Tolly's nullah/ Keorapukur sub-basin and Modification of 2 nos. DWF Pumping stations to Combined pumping stations and outfalls.	Length of proposed trunk sewer to be laid 9.3 km under this package <ul style="list-style-type: none"> • Length of proposed sewer (600 mm & above) to be laid – 9.13 km • Length of proposed sewer (below 600 mm dia.) to be - laid 0.16 km For laying of pipe below canals, jacking pushing method is considered <ul style="list-style-type: none"> • 1800 mm dia in ward 114 (Size of Pit (6.0 x 5.0 x 7.5))
	Construction of two combined pumping station – Modification of LS-5 from DWF pumping station to Combined pumping station (name proposed as Kudghat pumping station) Modification of existing Keorapukur MPS to combined pumping station
	Construction of gravity outfalls (7 nos. - 1 nos. to Tolly nullah & 6 nos. to Keorapukur canal)
	Laying of DWF Pumping main – From Kudghat pumping station proposed for a length of 320 m From Keorapukur S&D – considered in other package From Keorapukur MPS- Existing to be utilized
	Laying of SWF Pumping main From Kudghat pumping station to Tollys nullah - 50 m From Keorapukur S&D – considered in other package From Keorapukur MPS to Keorapukur canal – 170 m

Source: Subproject Appraisal Report for Package TR-2 SD 19.

III. FIELD WORK AND PUBLIC CONSULTATION

A. Outline of Field Work

10. In the period December 2015 to January 2016, field inspection of the proposed trunk sewer alignment, pumping station sites, locations of gravity outfalls, and alignments for DWF and SWF pumping mains was undertaken.

B. Stakeholder Consultation

11. Stakeholder consultation in the form of focus group discussions were undertaken with 10 members (with 1 woman participant / 10%) of the local community around the proposed pumping station sites and sewer pipe alignments, who indicated that water-logging was one of the biggest problems in the surrounding areas. The community welcomed the proposed interventions and articulated the need for the same, due to water-logging in some parts of the ward. People indicated willingness to cooperate during project implementation. The field visits and interactions helped ascertain that no permanent relocation or loss of land or structures to any private entity, or temporary or permanent economic impacts are anticipated as a result of the proposed subproject. Hence, further survey and inventories are not required.

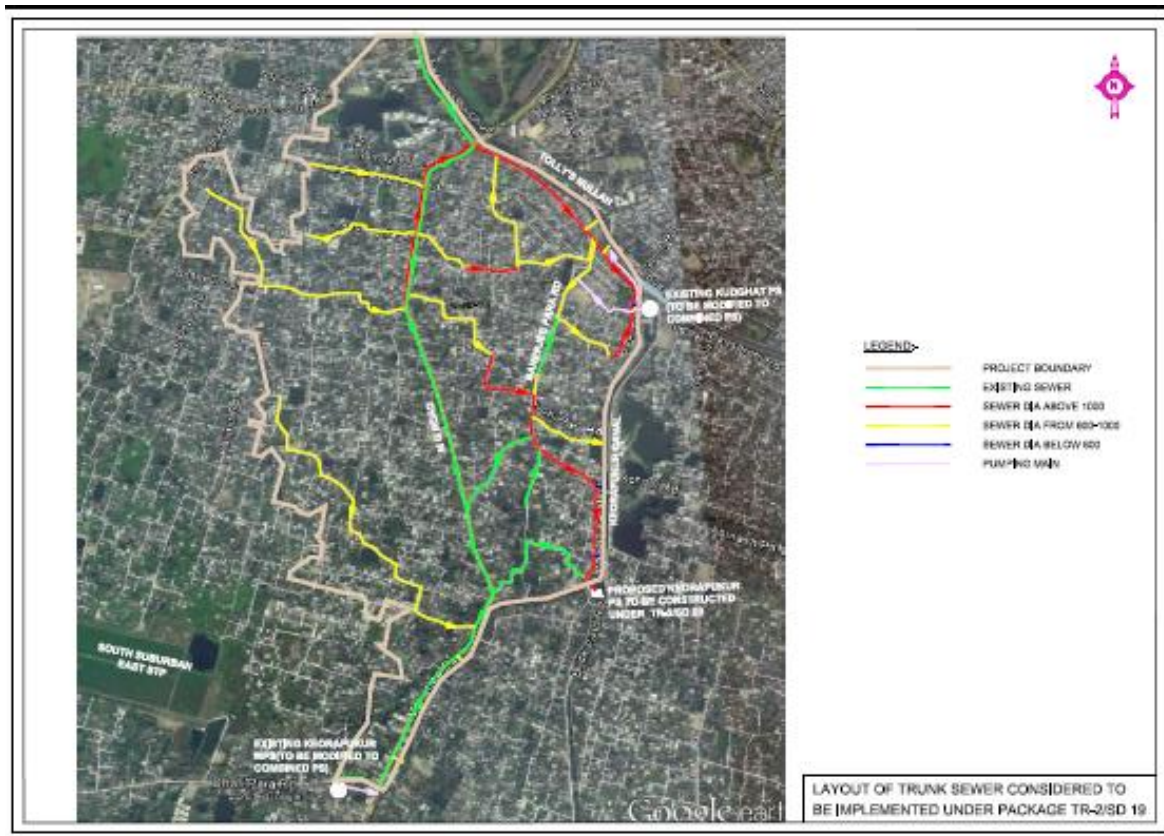
Table 2: Summary of Focus Group Discussion

DATE	LOCATION	NO. OF PARTICIPANTS				STATUS OF PARTICIPANTS	TOPICS DISCUSSED	ISSUES RAISED
		MALE	FEMALE	% Female	TOTAL			
29.01.16	Banamali Banerjee Road Ward No. 122.	9	1	10%	10	MALE : Employees in government or private sector, businessmen, retired persons, shopkeepers FEMALE : Housewife	<ol style="list-style-type: none"> 1. Relevant information of the upcoming project 2. Benefits of the Project. 3. No chance of Structure loss. 4. Grievance Redressal procedures. 5. Public participation & awareness. 	<ol style="list-style-type: none"> 1. The possible date of commencement of the proposed project work and duration of the project work. 2. Waterlogging during heavy rain in the monsoon in some specific areas like Sodepur, K.K. Road. 3. Chances of damaging the existing water pipelines during project implementation.

IV. LAND AVAILABILITY AND RESETTLEMENT IMPACTS

12. The field inspection helped establish that the proposed trunk sewer alignments and DWF and SWF pumping mains are entirely proposed within the available right of way of public roads, of which only Mahatma Gandhi Road belongs to PWD, Alipore Division, and all the remaining roads belong to Kolkata Municipal Corporation (KMC). The civil works for conversion of existing pumping stations to combined pumping stations is proposed within the boundaries of KMC sites; both the proposed pumping station sites do not have any informal users. The proposed outfall structures are proposed on Irrigation and Waterways Department, GoWB land. The 1800 mm dia pipe to be laid under the canal will use trenchless technology; the available road right of way of 10 m width where the pit will be excavated belongs to government. Pit construction is likely to cause some traffic disturbances; no other impacts are assessed. Overall, no involuntary resettlement impacts are anticipated as a result of the proposed works under package TR-2 SD19.

Figure 1: Google Earth Map depicting proposed components under Package TR-2/SD 19



V. CONCLUSION

A. Summary and Conclusion

13. No significant involuntary resettlement impacts are assessed as the identified site for the proposed civil works under package TR-2 SD19 as all pipe laying activity is proposed along government road rights of way (PWD or KMC roads) and all pumping station works are proposed within existing pumping station sites belonging to KMC. Temporary disruptions to

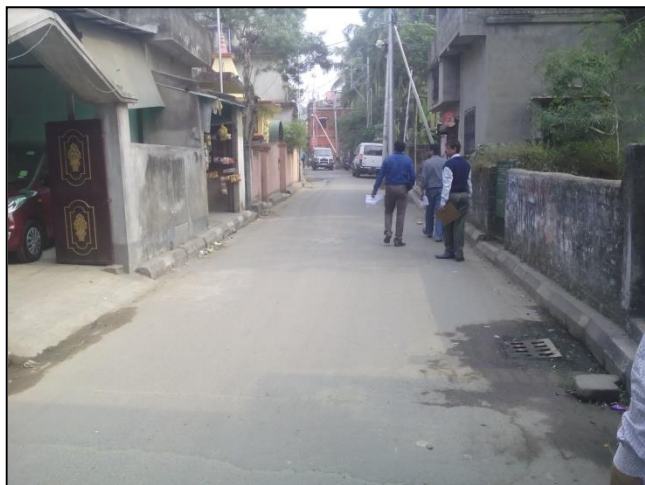
nearby communities and road users during construction are possible, and will be mitigated by the contractor through a traffic management plan and simple measures such as proper stacking/storage of construction materials, provision of planks to ensure that pedestrian access to shops and residences is maintained.

14. Cost likely to be incurred by the PMU for updating of this due diligence report, awareness generation, communication and grievance redress, inclusive of contingencies is INR 150000. The report updating cost will be borne by the government.

B. Next Steps

15. The DDR needs to be updated with the following information:
- (i) No objection certificate to be obtained from the PWD, Alipore Division and from Irrigation and Waterways Department for execution of subproject activity, and appended to the due diligence report.
 - (ii) Site and alignment photographs before start of civil work, and during implementation.
 - (iii) Continued consultations with the community and record of their concerns and issues, if any.
 - (iv) ADB approval on the updated DDR based on the final detail design and final assessment of IR impacts (permanent or temporary) at implementation stage needs to be obtained by the PMU prior to start of construction.

PHOTOGRAPHS



PHOTOGRAPHS OF PROPOSED
SEWER
ALIGNMENTS OF SD – 19
TRANCHE - II



Impact assessment on 29 January 2016 at Banamali Banerjee Road, Ward 122, regarding KEIP tranche 2 Package SD 19