



Resettlement Planning Document

Project Number: 38254-063
March 2016

IND:MFF - North Karnataka Urban Sector Investment Program - Tranche 4

Subproject: Package IV- Hosapete- 01HPT02B

Submitted by

Karnataka Urban Infrastructure Development & Finance Corporation, Bangalore

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Dated : 14/03/2016 .

To,
The Country Director,
No 4, San Martin Marg,
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New Delhi, Delhi 110021

Dear Madam,

Sub : North Karnataka Urban Sector Investment Programme – Submission of Reports.

With reference to the above, please find enclosed herewith the following Due Diligence Reports:

- Construction of STP in Hospet (011IPT02B).

Yours faithfully,

[Handwritten Signature]
Task Manager (NKUSIP)

Encl : as above

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DUE DILIGENCE REPORT

Document Stage: Due Diligence report
ADB Loan No 3088-IND, ADB Assisted KUIDFC-NKUSIP
Package IV- **Hosapete-** 01HPT02B

Subproject – Construction of Wet Wells

March - 2016

**IND: North Karnataka Urban Sector Investment
Program Package IV, Tranche - IV**

Prepared by



M/s. SNC-Lavalin Infrastructure Pvt. Ltd.
BUDA Complex, Mothi Circle
Ballari – 583101

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GOVERNMENT OF KARNATAKA

**KARNATAKA URBAN INFRASTRUCTURE DEVELOPMENT AND FINANCE
CORPORATION**

**NORTH KARNATAKA URBAN SECTOR INVESTMENT PROGRAM,
PACKAGE - 4 (ADB Loan No. IND – 3088)**



Due Diligence report for Government Land

March - 2016



M/s. SNC-Lavalin Infrastructure Pvt. Ltd.
BUDA Complex, Mothi Circle
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ABBREVIATIONS

ADB	–	Asian Development Bank
APs	–	Affected Persons
BPL	–	Below Poverty Line
CBO	–	Community Based Organization
CDP	–	Community Development Plan
CMC	–	City Municipal Corporation
DC	–	Deputy Commissioner
GRC	–	Grievance Redress Committee
HH	–	House Holds
IA	–	Implementing Agency
KUIDFC	–	Karnataka Urban Infrastructure Development and Finance Corporation
KUWSDB	–	Karnataka Urban Water Supply and Drainage Board
LA	–	Land Acquisition
M&E	–	Monitoring and Evaluation
NGO	–	Non-Government Organization
NOC	–	No Objection Certificate
NKUSIP	–	North Karnataka Urban Sector Investment Program
RF	–	Resettlement Framework
RP	–	Resettlement Plan
WTP	–	Water Treatment Plant
TMC	–	Town Municipal Council
ULB	–	Urban Local Body



Table of Contents

Project Background	1
Need of the Subproject	1
Location of the project site.....	1
Civil work photos.....	2
Satellite image of the proposed Wetwell	3
Objectives of the Project.....	4
Scope of the Sub-project.....	4
Requirement of Due-Diligence Report.....	5
Scope of Land Acquisition and Resettlement.....	5
Project Impact and Outcome.....	5
Extent of Impact.....	6
Findings.....	6



Introduction

Project Background:

ADB Assisted North Karnataka Urban Sector Investment Program (NKUSIP) is envisaged to facilitate economic growth in 25 selected towns of North Karnataka and bring about urban development by means of equitable distribution of urban services in an environmentally sound and operationally sustainable manner. Tranche IV focuses on 24X7 water supply system. Hosapete Sub projects include Sewerage (UGD) system works i.e balance works transferred from Tranche – I to Tranche IV. The Investment Program is designed to minimize land acquisition and resettlement impacts.

Need of the Subproject:

The North Karnataka Urban Sector Investment Program will finance investment in the sectors of sewerage and sanitation. It will also have a poverty alleviation and non-municipal infrastructure component.

The overall development goal of the NKUSIP is to facilitate economic growth in the towns of North Karnataka and bring about urban development through equitable distribution of urban basic services to the citizens, which are environmentally sound and operationally sustainable. The development purpose is designed to assist Urban Local Body (ULB) to “promote good urban management, by developing and expanding urban infrastructure that increases economic opportunities and reduces vulnerability to environmental degradation and urban poverty”.

Sub projects involves the construction of Sewage Treatment Plant (STP) and Wet well .

Location of the project site:

1. Construction of Wet Well 1- It is proposed to be constructed in site which is situated at Chittawadagi ward in Survey No. 249. The site is easily accessible from other towns and villages and is within the Hosapete town limits and the distance is around 2 Km away from CMC. Figure- 1 shows the satellite image of the proposed site.
2. Construction of Wet Well 2 - It is proposed to be constructed in site which is situated besides power canal, near Railway Station, Mudlapur in Survey No. 79B . The site is easily accessible from other towns and villages and is within the Hosapete town limits and the distance is around 1 Km away from CMC. Figure-2 shows the satellite image of the proposed site.



CIVIL WORK PHOTOS





Figure 1: Satellite image of the proposed wet well site - 1



Figure 2: Satellite image of the Proposed Wet well site - 2





Objectives of the Project

The main objectives of the project are as follows:

- Wet wells are the holding sump for gravity-flow sewer systems. As sewage enters the wet well and the water level rises, pumps are engaged to pump out the sewage to a forced main, or the sewage is lifted to a higher grade to continue the gravity flow to the outlet point. Solid material will accumulate in the bottom of the wet well and incoming sewage lines.
- Lift stations are low points in a gravity-flow sewer system where incoming sewage is pumped from a well to a higher grade to continue the gravity flow to the treatment plant. As solid material, such as rags, enters the lift station, buildup will occur on the bottom of the well and in other components within the station. Solid materials can often plug or damage pump impellers, so periodic cleaning is required to remove the solid material from the lift station.
- Sewage lift/pump stations are used for pumping wastewater or sewage from a lower to higher elevation, particularly where the elevation of the source is not sufficient for gravity flow and/or when the use of gravity conveyance will result in excessive excavation and higher construction costs.
- Sewage lift stations/pump stations may be used as a matter of economics or to overcome inadequate hydraulic head when it is obvious that no other solution is practical. For instance, it may be more economical to utilize a sewage pump station to pump or lift the sewage over a ridge and let it flow by gravity to a sewage treatment plant, or to elevate sewage to pass through a sewage treatment system by gravity.
- Key elements of lift/pump stations include a wastewater treatment receiving well (wet-well), equipped with lift pumps and piping with valves, a junction box, and an equipment control panel with alarm system.
- A properly designed wet well is essential for efficient and trouble-free operation of the lift/pump station. The purpose of a wet well is to provide a means of allowing automatic operation of the lift station with a simple control. Use of the wet well for any other purpose, such as a storage reservoir for sewage, is not recommended. The wet well should be as small as possible in order to minimize detention time of the sewage. Should the wastewater remain too long in the wet well, septic action may occur. Although, the wet well should be large enough so excessive starting and stopping of the lift station pump will not take place. Lift/pump stations do not usually include large above ground structures and tend to blend in with their surrounding environment.

Scope of the Sub-Project

The salient features of the subproject are as below:

- ❖ Construction of two wet wells
- ❖ Pumping main 1000 mm DI pipe
- ❖ Pumping main 450 mm DI
- ❖ Pumping machineries
- ❖ Man holes 1766 No's



Requirement of Due Diligence Report

Government land has been procured for the Sub-project for the construction of two Wet Wells. In this project there is no involuntary resettlement involved and hence the preparation of RP for this project is not required. The objective of this Due diligence report (DDR) is to review the Sub project land acquisition and resettlement (LAR) impacts if any, based on the detailed design and propose mitigation measures if, necessary in accordance with ADB's Safeguard Policy Statement, (SPS) 2009.

Prior to detailed design, the cadastral maps were examined to understand the ownership of land. Verification of the cadastral maps was done in the field based on the survey and measurement.

For the construction of Wet well 1 , an area of 15 cents and for Wet well 2, an area of 62 cents was required. Vacant land measuring 77 cents which was under the ownership of CMC, Hosapete was earmarked for the subproject .

The subproject will not entail any permanent land acquisition and resettlement. Site assessment of the entire proposed areas, where works will be undertaken was taken up. Based on it: there will be no expected impacts on private/public land, private properties like housing, shops, commercial buildings, religious and community infrastructure. No negative impacts on livelihood are envisaged. The proposed area is completely vacant and in possession of CMC . There are no Non-Titled Holders in the earmarked land.

Scope of Land Acquisition and Resettlement

As mentioned earlier, the total land requirement for the sub project was 77 cents , for which Government land was utilized.

Project Impact and Outcome:

The expected outcomes of the project are:

- ❖ Promote sustainable measures to increase potable sewerage line supply to the population
- ❖ Increase sewerage supply system for future sustainable source developments
- ❖ Increase sewerage Networks in whole city
- ❖ Increase the No of Manholes and easy to supply Sewerage and solid waste
- ❖ Development of sewerage network to maintain the clean city



Extent of Impact

Since the construction of Wet well is being undertaken in Government land ,there is no negative impact on the community

Findings

The Subproject will not cause any permanent and/or temporary impacts as government land is proposed to be used for construction of Wet well. The land earmarked is vacant, no common property resources are affected.