

Resettlement Plan

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Prepared by Karnataka Urban Infrastructure Development and Finance Corporation,
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CURRENCY EQUIVALENTS

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Currency Unit = Indian rupee (₹)

₹1.00 = \$0.0149

\$1.00 = ₹67.090

ABBREVIATIONS

ADB	—	Asian Development Bank
CAPRRC	—	community awareness, participation, rehabilitation and resettlement consultant
DLIC	—	District Level Investment Committee
GRC	—	grievance redress committee
IWRM	—	integrated water resource management
KUIDFC	—	Karnataka Urban Infrastructure Development and Finance Corporation
PIU	—	project implementation unit
PMDSC	—	project management construction and design supervision consultant
PMU	—	project management unit
RPMU	—	regional project management unit
ROW	—	right-of-way
SDO	—	social development officer
SPS	—	Safeguard Policy Statement
STP	—	sewage treatment plant
ULB	—	urban local body
WSS	—	water supply and sanitation
WTP	—	water treatment plant

NOTE

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

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CONTENTS

	Page
I. PROJECT BACKGROUND	1
A. Introduction	1
B. Scope of this Report	1
C. Geographic Information of Mangalore	2
D. Demographic Information of Mangalore	3
II. PROPOSED SUBPROJECT COMPONENTS	3
III. SCOPE OF LAND ACQUISITION AND RESETTLEMENT	4
A. Main Findings	4
B. Temporary Impact	5
C. Impact in Low Lying Area	8
IV. SOCIOECONOMIC INFORMATION AND PROFILE	10
V. FIELD WORK AND PUBLIC CONSULTATION	12
VI. GRIEVANCE REDRESS MECHANISM	14
A. Grievance Redressal Process	15
B. Grievance Redress Committee Composition and Selection of Members	15
VII. POLICY FRAMEWORK AND ENTITLEMENT	17
A. Types of Losses and Affected Person Category	18
VIII. INCOME RESTORATION	21
IX. RESETTLEMENT BUDGET AND FINANCING PLAN	21
X. INSTITUTIONAL ARRANGEMENTS AND IMPLEMENTATION	24
A. Institutional Structure and Capacity	24
B. Training and Capacity Building	30
XI. IMPLEMENTATION SCHEDULE	31
XII. MONITORING AND REPORTING	33
A. Monitoring	33
B. Reporting	33

APPENDIXES

1. Sample Pamphlet of Project Information Disclosure
2. Pumping Main Alignments by Zone
3. Pictures of the Alignment in Mangalore City
4. Details of Interactions with the General Public in Mangalore
5. Photographs of Stakeholder Interactions in Mangalore
6. Minutes and Signature Sheets of Town Level Meeting in Mangalore in February 2018
7. List of shopkeepers/Affected Persons Temporarily Affected by Project
8. Sample Socioeconomic Survey of Affected Persons
9. Involuntary Resettlement Impact Categorization Checklist
10. Office Memorandum regarding Establishment of Grievance Redress Mechanism
11. Sample Grievance Registration Form

EXECUTIVE SUMMARY

The Karnataka Integrated Urban Water Management Investment Program (KIUWMIP, the Program) was initiated by the Asian Development Bank (ADB) with the Government of India on 30 December 2014 with aims to improve water resource management in urban areas in a holistic and sustainable manner consistent with the principles of Integrated Water Resources Management (IWRM). Investment support is being provided to modernize and expand urban water supply and sanitation (UWSS), and strengthen institutions to improve water use efficiency, productivity, and sustainability. Assistance under the second phase of KIUWMIP will be used to expand and upgrade water supply and sanitation infrastructure in the four coastal towns of Kundapura, Mangalore, Udupi and Puttur. The project also involves improving water resource planning, monitoring, and service delivery. The four towns have been selected based on (i) IWRM improvement impact on the state's water resources, (ii) urban local bodies (ULBs) reform willingness, (iii) the state's priorities, and (iv) infrastructure gaps.

Mangalore is the largest urban center of coastal Karnataka and the fourth largest city in Karnataka in terms of area and population. The municipality covers an area of 132.45 square kilometers (km²) and is divided into 60 wards. It is located about 350 kilometers (km) west of the state capital, Bangalore.

This resettlement plan is prepared for the replacement of the pumping main component of the sewerage system of Mangalore proposed as part of Project 2 of KIUWMIP. This proposed sub-project for Mangalore city involves the replacement of the old pumping mains of zone 3, zone-4, zone-6 and zone 7 of the seven drainage zones of the city. Sewer networks in these old areas are choked and frequently overflow, sewage is leaking and many of the laterite stone manholes have collapsed. Due to the growth of the city in the past, the existing sewer network does not have carriage capacity to cope with the current load. The following pipes are proposed for upgrading:

- (i) 1,100 millimeters (mm) dia ductile iron K9 class pipe pumping mains (7.65 km) from wet well No-3, Kudroli to sewage treatment plant (STP) at Kavoov, all along the road;
- (ii) 900 mm dia ductile iron K9 class pipe pumping mains (0.95 km) From wet well No-4, Kandathpalli to wetwell No-3, Kudroli all along the road;
- (iii) 450 mm dia ductile iron K9 class pipe pumping mains for 1.7 km from wet well No-6, Mulihitlu to Ridge Manhole near Morgans gate all along road; and
- (iv) 450 mm dia ductile iron K9 class pipe pumping mains for 1.10 km from wet well No-7, Jeppu Bappal to Ridge Manhole near Yekkur, inside old STP.

Resettlement Plan. This draft resettlement plan identifies potential involuntary resettlement impacts based on the detailed project report (DPR) for replacement of old sewerage pumping main for Mangalore city. It identifies compensation and mitigation measures for identified impacts in accordance with ADB's Safeguard Policy Statement (SPS) 2009, and applicable Government of India law, the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013. The resettlement plan will be updated based on detailed measurement survey prior to start of construction and ADB's approval obtained. The final and draft resettlement plans will be disclosed to affected persons and other stakeholders.

Scope of Land Acquisition and Resettlement. Joint site visits were conducted by the resettlement specialist and design engineer of the consultant team between 20 November 2016 and 10 December 2016 along the alignment of the project. The site visits confirmed that the

pumping main alignment is proposed along existing public right-of-way (ROW) of city roads. There is no land acquisition envisaged. A total of 68 shopkeepers are likely to face temporary loss of income for 15 days during the construction period. Facilities for pedestrian movement will be provided, and impact will be minimized through the implementation of traffic management plans and simple mitigation measures such as provision of access planks and barricading for safety.

Categorization. This subproject is classified as Category 'B' in accordance with ADB SPS, 2009.

Consultation and Disclosure. Goals and objectives of the project have been disclosed to stakeholders (including, beneficiaries, affected persons, elected representatives and institutional stakeholders) through consultation meetings and focus group discussions. A program of continuous consultation and disclosure is underway.

Resettlement Budget. The cost of all resettlement activities will be an integral part of the overall project cost, which will be borne by the project. The resettlement cost estimate in the draft resettlement plan for the proposed subproject package is \$60,000.

Monitoring and Reporting. The social development officer (SDO) at the project management unit (PMU) will confirm and update the resettlement plan. The safeguards officer of the regional project management unit (RPMU) will be responsible for regular monitoring. The PMU will prepare monitoring reports on construction progress, resettlement plan implementation and identifying potential problems. Monitoring reports will contain resettlement compliance and will be submitted to ADB on a half yearly basis.

I. PROJECT BACKGROUND

A. Introduction

1. Asian Development Bank (ADB) is helping the Indian state of Karnataka improve water resources management in selected urban areas of the Upper Tungabhadra sub-basin. Water supply and waste water systems suffer from under-investment throughout the state of Karnataka. Current water supply is intermittent. The absence of scientific wastewater treatment and sewerage systems contaminates ground water posing a health risk to the public. If the issues associated with the poor water management in the state are not resolved, the state's economic growth will be stunted, public health will deteriorate, and water resource disputes will escalate.

2. Project I of the Karnataka Integrated Urban Water Management Investment Program (KIUWMIP) was initiated by the ADB with the Government of India on 30 December 2014 with the aim to improve water resource management in urban areas in a holistic and sustainable manner consistent with the principles of Integrated Water Resources Management (IWRM). Investment support is being provided to modernize and expand urban water supply and sanitation (UWSS), and strengthen institutions to improve water use efficiency, productivity, and sustainability. Assistance under the first phase has been used to expand and upgrade water supply and sanitation infrastructure in three towns - Byadagi, Davanagere, and Harihara. The project will also improve water resource planning, monitoring, and service delivery. Project 2 will comprise four water supply subprojects (Kundapura, Mangalore, Udupi and Puttur) and one sewerage subproject (Mangalore). This draft resettlement plan is prepared for the replacement of the pumping main component of the sewerage system of Mangalore proposed as part of Project 2 of KIUWMIP, at detailed design stage. The draft resettlement plan is prepared based on ADB's Safeguard Policy Statement (SPS), 2009, and the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Act 30 of 2013), and the agreed resettlement framework.

B. Scope of this Report

3. The existing sewerage system was designed in 1961 for a total flow of 27.04 million liters per day (MLD) to cater to a population of 200,000 till 1991. The total length of sewerage network constructed was about 250 kilometers (km) with pipe dia. varying from 150 millimeters (mm) to 600 mm. Sewers are made of stoneware and reinforced cement concrete (RCC) pipes. There are about 7,000 manholes and eight wet well-cum-pump houses in the system. From 1974, the sewerage system was extended within the city area by 245 km with 8000 manholes. In 2007, the sewerage system was upgraded for a flow of 88.75 MLD for a population of 624,432. The total length of the sewerage network constructed was about 360 km including 14,875 manholes with pipe dia. varying from 150 mm to 900 mm. However, at present, due to insufficient carrying capacity of the existing pumping main, the full quantity of sewage is not pumped to the sewage treatment plant (STP). Sewage flows into a natural nala (drain), bypassing the STP.

4. The subproject components include the replacement of the old pumping mains of zone 3, zone-4, zone-6 and zone 7, out of the seven drainage zones of the city. Five zones are currently being drained into the Gurupura River basin and the other two to the Nethravathi River basin. Sewer networks in these old areas are choked and frequently overflow at many locations. Manholes are punctured leading to flow of sewage towards the natural nala. Laterite stone manholes have also collapsed at many places. Due to growth of the city over the past few

years, the existing sewer networks do not have adequate carriage capacity. They are proposed to be replaced with the following pipes:

- (i) 1,100 mm dia ductile iron K9 class pipe pumping main (7.65 km) wet well No-3, Kudroli to STP at Kavoor, all along the road.
- (ii) 900 mm dia ductile iron K9 class pipe pumping main (0.95 km) from wet well No-4, Kandathpalli to Wetwell No-3, Kudroli, all along the road.
- (iii) 450 mm dia ductile iron K9 class pipe pumping main for a total length of 1.7 km from wet well No-6, Mulihitlu to Ridge Manhole near Morgans Gate, all along road.
- (iv) 450 mm dia ductile iron K9 class pipe Pumping Main for a total length of 1.10 km from wet well No-7, Jeppu Bappal to ridge manhole near Yekkur, inside old STP.

5. The subproject for the pumping main for sewerage for Mangalore is classified as "Category B" for involuntary resettlement impact as per ADB SPS, 2009.

6. This draft resettlement plan is prepared based on the detailed project design for the subproject components and the agreed resettlement framework, which is based on ADB's Safeguard Policy Statement 2009, and provisions of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act (also the Land Acquisition Act), Government of India, 2013. This report describes findings and provides copies of available land-related documents, public consultations and photographs. The draft resettlement plan will be updated based on detailed measurement surveys and census surveys.

7. The social safeguards personnel at PMU will be required to review and update this draft resettlement plan documenting any modifications to the subproject design, changes in alignments etc. based on the final detailed design and DMS/census surveys. The updated resettlement plan will be submitted to ADB and a 'no objection' confirmation will be sought from ADB prior to start of construction under the subproject.

C. Geographic Information of Mangalore

8. Mangalore is the Headquarters of the Dakshina Kannada District of Karnataka in Southern India. It is the fourth largest city in Karnataka and is located about 350 km west of the state capital, Bangalore. Mangalore is situated on the west coast of India, and is bounded by the Arabian Sea to its west and the Western Ghats to its east. The municipality covers an area of 132.45 square kilometers (km²) and is divided into 60 wards. The topography of the city is both plain and undulating with four hilly regions with natural valleys within the city.

9. **Climate.** Mangalore has a tropical monsoon climate and is under the direct influence of the southwest monsoon. It receives about 95% of its total annual rainfall within a period of about six months from May to October, while remaining extremely dry from December to March. The annual precipitation in Mangalore is 3,796.9 mm.

D. Demographic Information of Mangalore

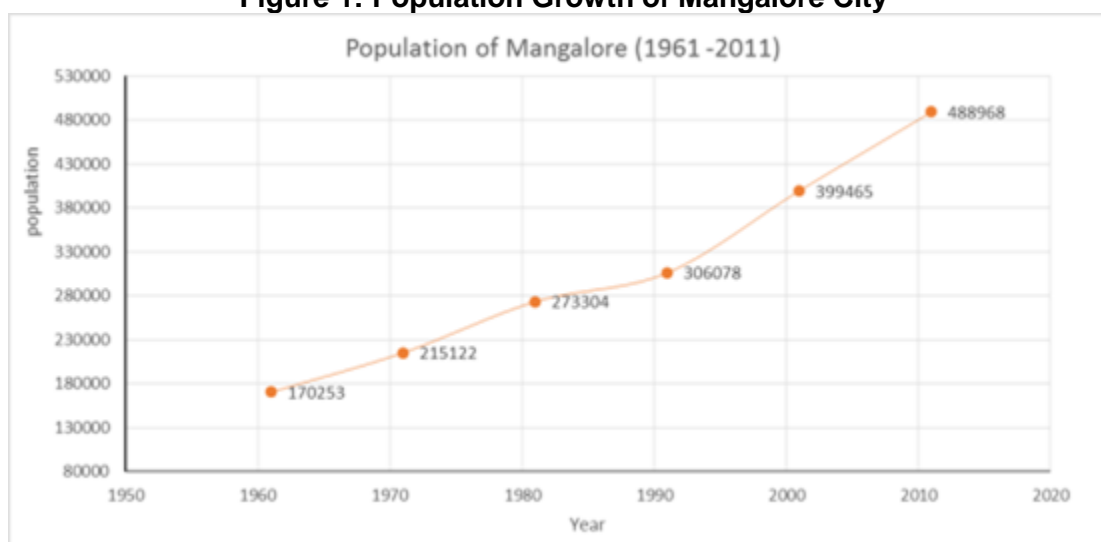
10. The population of Mangalore according to the Census 2011 is 488,968. Based on the tables below, the population has been steadily growing and in recent years, has stabilized at an average annual growth rate of 2.25%.

Table 1: Population and Growth Rate for Mangalore

Year	1961	1971	1981	1991	2001	2011
Population	170,253	215,122	273,304	306,078	399,465	488,968
Population growth rate (%)		2.63	2.70	1.19	3.05	2.24

Source: Census, 2011.

Figure 1: Population Growth of Mangalore City



Source: Census, 2011.

II. PROPOSED SUBPROJECT COMPONENTS

11. The table below presents details of proposed subproject components.

Table 2: Subproject Components

Subproject Component	Background	Proposed Works	Nature of Site
Pumping main	The sewage from zone 3, 4 and 5 is collected in wet well 3 located at Kudroli. Total area of zone 3 is 9.52 square kilometers (km ²) with projected population of 152,449 with sewage generation of 16.46 million liters per day (MLD) for 2046.	1,100 millimeters (mm) dia ductile iron K9 class pipe from wet well No-3, Kudroli to 43.5 MLD sewage treatment plant (STP) at Kavoar for 7,650 meters (m)	Government land- road belongs to Mangalore City Corporation

Subproject Component	Background	Proposed Works	Nature of Site
Pumping main	The sewage from zones 4 and 5 is collected in wet well four located at Kandathpalli. Total area of zone 4 is 1.71 km ² with projected population of 25,061 with sewage generation of 3.38 MLD for 2046.	900 mm dia ductile iron K9 class pipe from wet well 4, Kanadathpalli to wet well 3, Kudroli for 950 m	Government land- road belongs to Mangalore City Corporation
Pumping main	The sewage from zone 6 is collected in wet well 6 located at Mulihitlu. Total area of zone 6 is 1.31 km ² with projected population of 25,739 with sewage generation of 3.47 MLD for 2046.	450 mm dia ductile iron K9 class pipe from wet well No-6, Mulihitlu to Ridge Manhole near Morgans gate for 1700 m.	Government land- road belongs to Mangalore City Corporation
Pumping main	The sewage from zone 7 is collected in wet well 7 located at Jeppu Bappal. Total area of zone 7 is 1.33 km ² with projected population of 25,041 with sewage generation of 3.38 MLD for 2046	450 mm dia DI K9 class pipe from wet well No-7, Jeppu Bappal to Ridge Manhole inside premises of old STP at Ekkur for 1,100 m.	Government land- road belongs to Mangalore City Corporation

12. Pumping mains of 1100 mm dia, 900 mm dia and 450 mm dia have been proposed all along the existing road within the city. All these roads have existing gravity sewers, existing pumping mains, electrical poles, transformers, water supply lines, house service connections, abutting compound walls, road side drains and cross culverts. While laying new pumping mains on these roads, it is possible that due to the high-water table of the area and the upkeep of the older pipelines, the existing utilities may collapse. Hence it is recommended that along with the laying of pumping mains, the shifting of utilities, and the reconstruction of sewer lines, manholes, water supply lines, and house service connections is also undertaken. A detailed Project Management Report will be added to the updated resettlement plan, detailing resettlement avoidance and minimization measures.

III. SCOPE OF LAND ACQUISITION AND RESETTLEMENT

A. Main Findings

13. A joint site visit was conducted by the resettlement specialist and design engineer of the consultant team between 20 November 2016 and 10 December 2016 along the alignment of the project city. The site visit confirmed that the pumping main alignment is proposed within the existing (public right-of-way) of city roads. There is no land acquisition or permanent impact envisaged. The figure below shows the main alignments of the pipelines (details by zone are presented in Appendix 2).

Table 3: Pumping Main Details and Involuntary Resettlement Impact

No	Location		Material	Length (m)	Trench Width	Economical Pipe Dia (mm)	Road width (m)	Owner-ship	Involuntary Resettlement Impact
	From	To							
1	WW-3	Kavoor Sewage Treatment Plant	DI-K9	7650	1.8	1100	4	Right-of-way (ROW)/ urban local body (ULB)	Temporary economic impact to 47 shops anticipated.

No	Location		Material	Length (m)	Trench Width	Economical Pipe Dia (mm)	Road width (m)	Owner- ship	Involuntary Resettlement Impact
	From	To							
2	WW-4	WW-3	DI-K9	950	1.6	900	4	ROW/ ULB	Temporary economic impact to 16 shops anticipated.
3	WW-6	RMH	DI-K9	1700	1.1	450	4	ROW/ ULB	Temporary economic impact to 05 shops anticipated.
4	WW-7	RMH	DI-K9	1100	1.1	450	4	ROW/ ULB	Nil

B. Temporary Impact

14. The joint site visit and surveys revealed that there will be temporary economic impact to 68 shopkeepers. These small business enterprises are located in the (i) Kandathpalli wet well to Kudroli (wet well No. 4 to 3), (ii) Kudroli wet well to Mullakadu - Kavoor STP (wet well 3 to Mullakadu STP), (iii) Urva market - Ashok Nagar Road junction, and (iv) the Mulihithlu road areas. No women-headed households or indigenous peoples were identified among the affected persons.

15. Most of the pumping main alignment is proposed along road widths above 5 m (see photographs of the proposed alignments with details of road widths in Appendix 3). At any given point in time, the trenching for the pumping mains will be along one stretch of the road. This is likely to minimize disruptions and impacts. Some traffic movement may be restricted during the construction period. Facilities (planking etc.) for pedestrian movement will be provided. Affected hawkers and vendors will be assisted by the contractor to move to the other side of the road and returning after construction is completed. Where they are not required to shift, access will be ensured by the contractor and community awareness, participation, rehabilitation and resettlement consultant (CAPRRC). The construction period will be minimized and is estimated to be approximately fifteen days per section of work. Other mitigation efforts will include (i) guarding open pits against safety hazards, managing traffic flows as per the traffic management plan prepared by the contractor in coordination with local authorities and communities; and (ii) conducting major portion of the works particularly in commercial areas at night, etc. Contact numbers of concerned local officials will be provided at work sites, so that the public can reach out for timely resolution of any issues that arise during implementation.

Figure 2: Map Indicating Pumping Main Alignment and Affected Locations with Temporary Impact

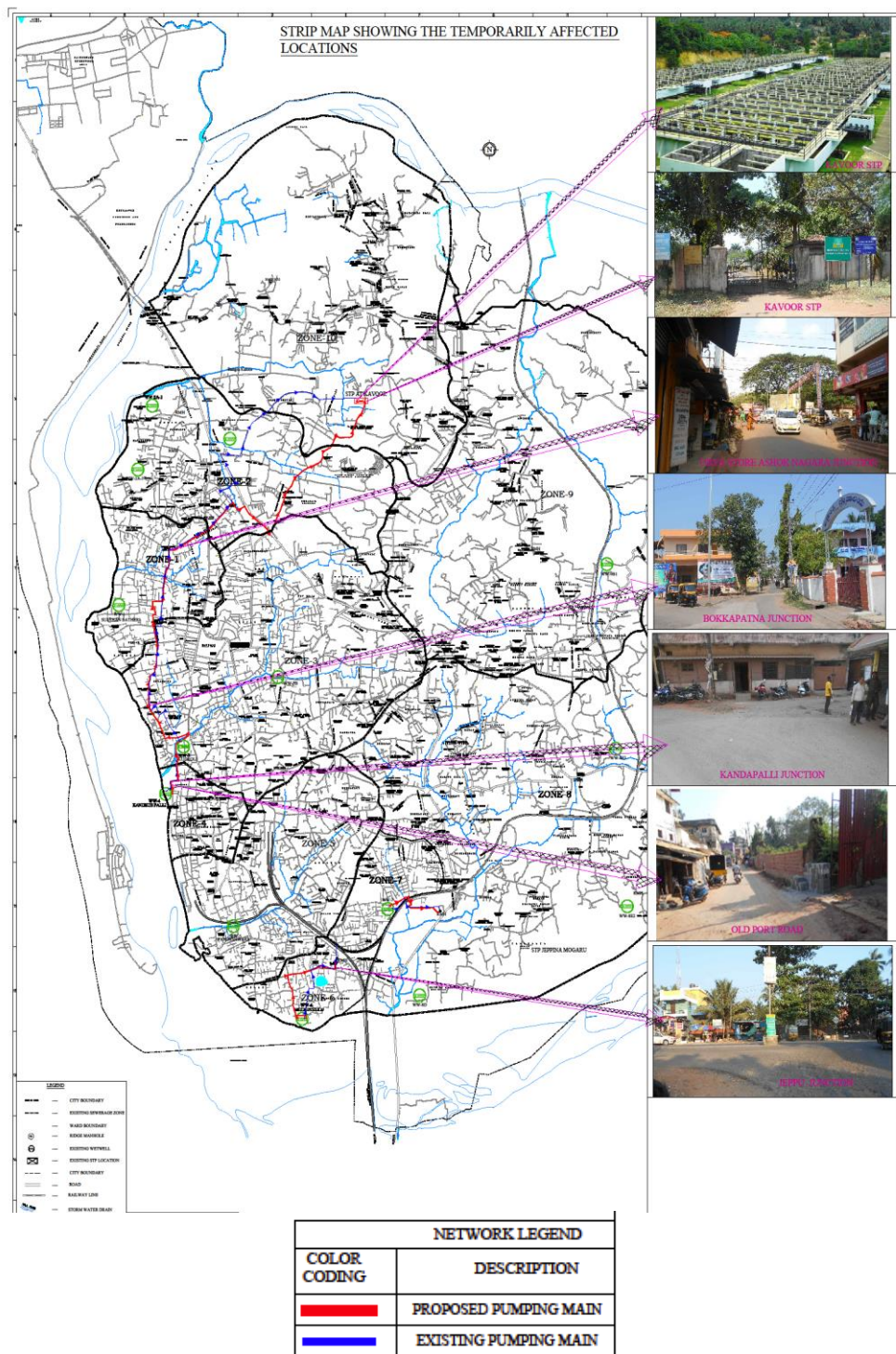
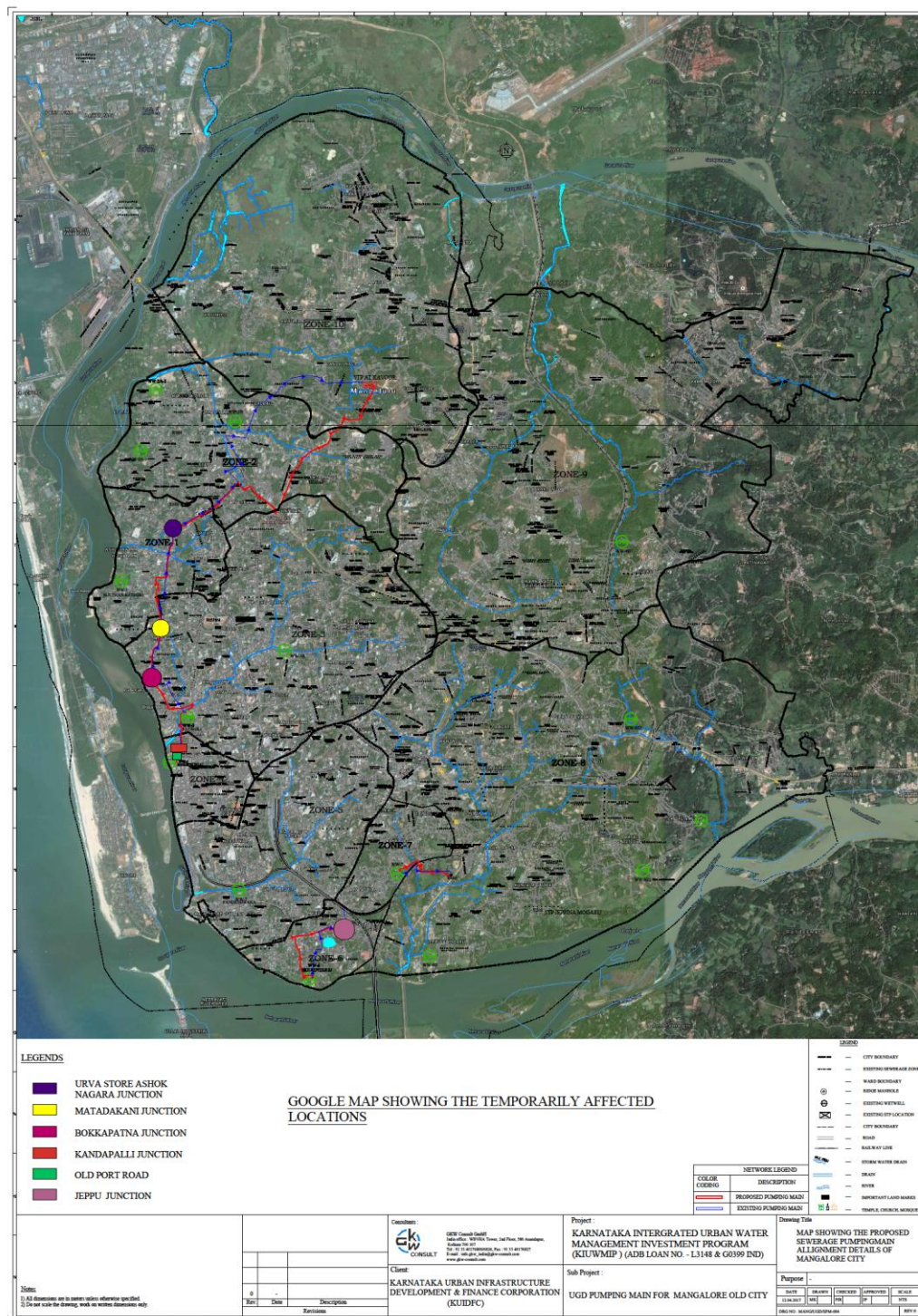


Figure 3: Google Map showing Temporarily Affected Locations¹



Source: Google Maps.

¹ This google map identifies the temporarily affected locations of Urva Store, Ashok Nagara Junction, Matadakani Junction, Bokkapatna Junction, Kandapalli, Old Port Road, and Jeppu Junction.

16. The following mitigation measures are proposed to avoid and/or reduce temporary impacts to businesses during linear pipe laying works:

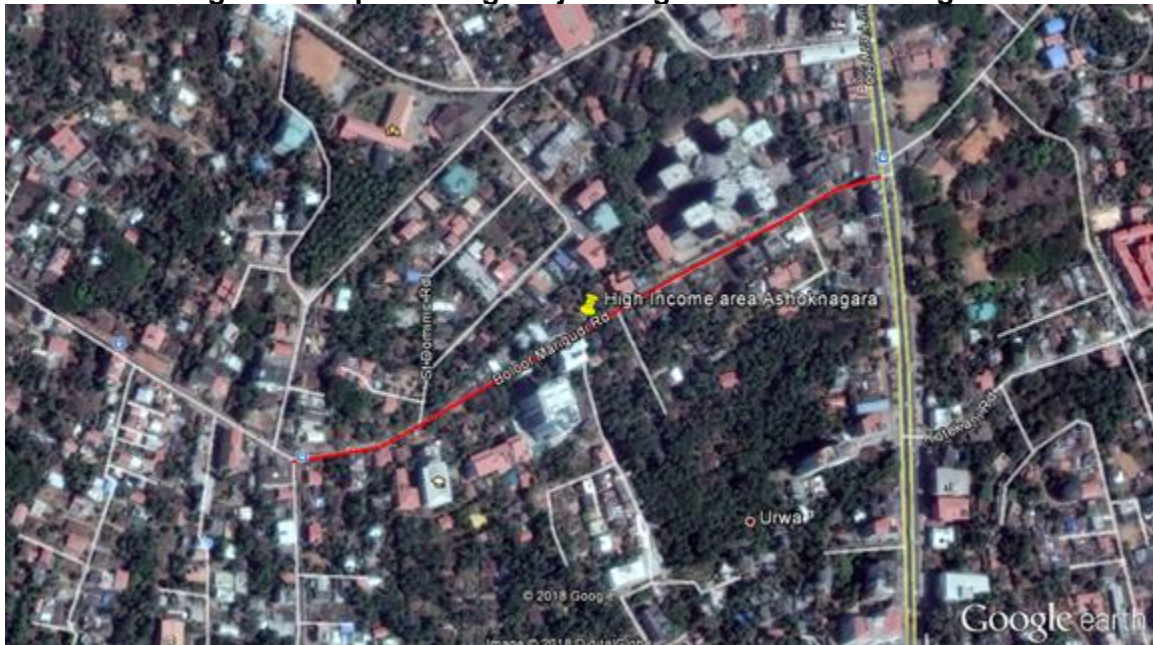
- (i) Provision of advance notice to businesses to shift their merchandise, vending items, and mobile shops at least 30 days prior to construction work;
- (ii) Conducting door-to-door awareness campaign with the support of the CAPRRC;
- (iii) Maintaining access to shops by providing planks and leaving spaces to avoid disturbance to residents and businesses;
- (iv) Open pits to be guarded properly for safety reason, especially during day time working period, near road crossings, near school complex, etc.;
- (v) Managing traffic flows as per the traffic management plan prepared by the contractor in coordination with local authorities and communities;
- (vi) Limiting the time period for open trenches;
- (vii) Completing works quickly where large numbers of businesses are located;
- (viii) Avoiding full street closure to the extent possible;
- (ix) Providing employment opportunities to the displaced persons during construction works, especially vulnerable affected persons, as necessary;
- (x) Placing telephone hotlines on signages in visible areas to enable contact in case of emergency;
- (xi) Making the community fully aware of the grievance redress mechanism;
- (xii) Providing contact numbers of responsible persons in the RPMU and urban local body (ULB) offices; and
- (xiii) Assistance to vendors and hawkers to shift to nearby locations and helping in shifting back and/or resumption of their business early.²

C. Impact in Low Lying Area

17. The affluent locality of Ashok Nagar (see map below with alignment) included under the subproject, is a low-lying area. This alignment consists of 1,100 mm and 900 mm dia pipelines along 2 km of a narrow road. The area has a high water-table and collapsible sandy soil, and faces potential temporary impacts (access disruptions) due to these physical conditions. Access disruptions will have to be managed through close monitoring of the contractor's work in the area and following a strict protocol during construction as described below.

² Shifting assistance will be provided to the displaced persons if required to move. The amount of the shifting assistance will be decided based upon volume of material/assets to be shifted and distance to new place. ULB may provide free transport facility for this.

Figure 4: Map showing Project Alignment in Ashok Nagar



Source: Google Earth.



Ashok Nagar Main Road,
Road width 3.8 m; Dia of pipe 1100 mm dia DI K9 class



Stakeholder Interactions in Ashoka Nagara Main Road

18. To deal with the situation in Ashoka Nagara, the following technical solutions are being considered. These include:

- (i) Excavation will be conducted only for small stretches at any time e.g., 6 meters (m) at a time. Pipes will be laid one at a time and the trench will be back filled immediately. The excavation for the second pipe length will be conducted only after the first back fill is completed. This procedure will be repeated along the entire narrow stretch. As it will be possible to lay only a few pipes in a day, the 2 km stretch may require 45 days to complete.
- (ii) To control the high water-table in the area, 'well point type dewatering' will be considered. This will lower the water table quickly and make the working area dry. High capacity electric/diesel pumps are used for dewatering. At any time, a 70 m stretch will be dry. One or two pipes will be laid, and the trench will be immediately backfilled.
- (iii) In the stretches with collapsible soil, the sides will be protected with trench sheet piling which will prevent the collapse of the road.
- (iv) To prevent the collapse of the existing sewer line along the alignment, the sewer line may be bypassed. Submersible pumps will be placed on upstream manholes to pump sewage into the next two or three downstream manholes. In this way, the collapse of live lines will not affect sewage flow in the area; and
- (v) During finalization of work program, work will be executed only in night time so that access disruptions can be completely avoided.

19. Discussions were held with the locals to appraise them of the project, the alignment passing through the area, the issue of the low-lying area and how technology was going to be used to minimize the impact of the project.

IV. SOCIOECONOMIC INFORMATION AND PROFILE

20. The joint site verification by design engineer and resettlement specialist during April 2017 indicates that there will be minimal impact on the communities of Mangalore during the construction the Pumping Main project. There will be some travel restrictions, but these will be handled through traffic management plans to as to minimize disruptions and impacts on business and residents. No permanent impact is envisaged as a result of the proposed subproject components.

21. A total of 68 temporarily affected shops were identified during a transect walk conducted in April 2017. These shops are primarily located along the Urva Store Ashok Nagara Junction, Matadakani Junction, Bokkapatna Junction, Kandapalli, Old Port Road and Jeppu Junction. A survey for inventory/listing of all potentially affected businesses was conducted. The list of affected businesses and details of reported daily incomes is provided in Appendix 7. The list of businesses and estimation of loss to the businesses will be confirmed during detailed measurement survey/census survey prior to start of construction. Average daily income was reported by 35 (51%) of the 68 temporarily affected businesses; the remaining business owners either did not wish to disclose their daily incomes or were found closed during the period of survey. Some of the identified temporarily affected business owners indicated willingness to bear the loss without compensation, during the business survey. The overall average income reported by the businesses works out to ₹2,760 per day. A few outliers or businesses with significantly higher earnings than others were found to be pulling up the average. After discounting the outliers, the average daily income was found to be ₹1,650.

22. In addition to the business survey, a sample socio-economic survey of 15 (20%) of the 68 affected businesses was conducted between 18 January 2018 and 22 January 2018. Presented below is the socio-economic profile of affected persons, based on the sample survey.

Table 4: Business Type of Affected Persons

Business Type	No. of Sample Affected Persons (%)
Vehicle Works	4 (26.7%)
Engineering Works	3 (20%)
Paint Works	1 (6.7%)
General Trading	6 (40%)
Medical Store	1 (6.7%)
Total	15 (100%)

Source: Socio-economic survey of temporarily affected persons, 2018.

Table 5: Average Household Size of Temporarily Affected Persons

No. of Household Members	No. Sample Households (%)
1-4 persons	12 (80%)
5-8 persons	3 (20%)
Total	15 (100%)

Source: Socio-economic survey of temporarily affected persons, 2018.

Table 6: Religious affiliation of Affected Persons

Religion	No. of Sample Affected Persons (%)
Hindu	9 (60%)
Muslim	6 (40%)
Other	0 (0%)
Total	15 (100%)

Source: Socio-economic survey of temporarily affected persons, 2018.

Table 7: Social Groups of Affected Persons

Social Group	No. of Sample Affected Persons (%)
Scheduled caste	0 (0%)
Scheduled tribe	0 (0%)
Other Backward Caste	9 (60%)
Other castes or communities	6 (40%)
Total	15 (100%)

Source: Socio-economic survey of temporarily affected persons, 2018.

Table 8: Income Levels of Temporarily Affected Persons

Annual Household Income (₹)	Sample Households No. (%)
Below 1 lakh	0
1-2.99 lakhs	7 (46.66%)
3-5.99 lakhs	6 (40.00%)
6-7.99 lakhs	1 (6.66%)
8-10 lakhs	1 (6.66%)
Total households	15 (100%)

Source: Socio-economic survey of temporarily affected persons, 2018.

Note: A lakh = 100,000.

Table 9: Possession of Below Poverty Line Ration Cards

Whether Below Poverty Line Ration Cards Possessed	No. of Sample Households (%)
Yes	3 (20%)
No	12 (80%)
Total	15 (100%)

Source: Socioeconomic survey of temporarily affected persons, 2018.

23. Results of the sample socioeconomic survey of affected persons are summarised below:

- (i) None were women-headed households;
- (ii) All the affected persons self-identified as other backward castes³ (OBC) or other communities; none belong to scheduled castes and tribes;
- (iii) The reported annual household income of the affected persons ranges between ₹1,80,000 and ₹10,00,000. Discounting the outlier of ₹10 lakhs (who will be asked to validate his/ her claims with tax records or sale receipts to prove loss of income), the average daily income of the affected persons is estimated at ₹1,128 per day. None of the affected households fall below the poverty line (income below ₹2,081⁴ per capita per month in urban areas used to define below poverty line or BPL), and none were found to belong to vulnerable groups;⁵ and
- (iv) Three of the affected persons indicated that they possess BPL ration cards. However, based on their stated incomes, it does not appear that they are below poverty line.

24. Details of the subproject components were shared with all the affected vendors. The vendors indicated that they are willing to support the project. They also indicated that planks should be provided for the customers to access their shops during the construction period. The vendors were told that compensation would be provided to them prior to the construction. The resettlement budget identifies compensation at replacement cost for the affected vendors. The updated resettlement plan will provide for net income loss based on DMS/census surveys.

V. FIELD WORK AND PUBLIC CONSULTATION

25. Formal consultations were carried out by the project implementation unit (PIU) of Mangalore to prioritize and finalize works under the program. These were supplemented by a series of discussions with stakeholders by the PMDCSC consultants.

26. Between 6 December 2016 and 8 December 2016, discussions were conducted with residents, shopkeepers, vendors etc. along the alignment of the pumping mains to seek their feedback on the assessed temporary impacts of proposed civil work.

- (i) Ward Councillors were present during the discussion process and supported the project by creating awareness about the subproject and requested the people to support the project during implementation;

³ Socially and educationally backward classes other than scheduled castes and scheduled tribes.

⁴ The Planning Commission determined the poverty line in Karnataka (reference year 2011-2012) as a per capita monthly income of ₹975.43 in rural areas and ₹1,373.28 in urban areas. Based on annual inflation rates for Karnataka (Finance Department, Government of Karnataka, Medium Term Fiscal Plans), the per capita monthly income for rural areas for 2016-2017 are estimated as ₹1,438 while that in urban areas as ₹2,081.

⁵ Vulnerable groups in the context of Karnataka are defined as those below the poverty line (BPL), women-headed households, those belonging to the scheduled castes and scheduled tribes, landless and those without legal title, elderly, women and children, persons with disabilities and out-of-school/working children and orphaned children.

- (ii) Over 19 stakeholders including five (26%) women were consulted with across the following localities/wards: (i) Hoigebazar, Bolar Ward, (ii) Bolar, Emmekere, Morgansgate ward; (iii) Derebail (S); (iv) Derebail (NE); (v) Mannagudda, Kudroli. Appendix 4 contains details of the consultations and photographs of the ward-level consultations;
- (iii) Issues discussed in the stakeholder discussions included (a) providing details of the subproject to stakeholders; (b) information on likely inconvenience to access shops and residences during the construction period and proposed compensation and mitigation measures; (c) information on assistance for shifting to hawkers and vendors (to be provided if required); (iv) the grievance redress mechanism (GRM) and the entitlement matrix for KIUWMIP. Contact details of the responsible people in the ULB were provided and suggestions were requested;
- (iv) The following feedback and suggestions were received from the stakeholders:
 - (a) indication of willingness to support project implementation;
 - (b) willingness to deal with the inconvenience of the subproject;
 - (c) need to limit the time period for open trenches;
 - (d) maintenance of access to shops by providing planks and leaving spaces to avoid disturbance to residents and businesses,
 - (e) open pits to be guarded properly for safety reason, especially during day time working period, near road crossings, near school complex, etc.;
 - (f) managing traffic flows as per the traffic management plan prepared by the contractor in coordination with local authorities and communities;
 - (g) completing works quickly where large numbers of businesses are located,
 - (h) avoiding full street closure to the extent possible; and
 - (i) providing employment opportunities to the displaced persons during construction, especially to vulnerable displaced persons.

27. The inventory of affected businesses was completed on 17 December 2016. The cut-off date for payment of compensation to temporarily affected persons will be the date of detailed measurement/census survey. The cut-off date will be formally announced in the affected areas by the PIU. During the resettlement plan implementation phase, details of procedural formalities for access to entitlement benefits will be further disclosed to the affected persons. The PIU at the ULB level and RPMU-PMU at Karnataka Urban Infrastructure Development and Finance Corporation (KUIDFC) will extend and expand the consultation and disclosure process during the project implementation stage.

28. On 20 February 2018, a town level stakeholder consultation meeting was held to disseminate the details of the plan as well as to ascertain the views of the public.

- (i) The meeting chaired by the Mayor of Mangalore City, was attended by about 118 people. Attendees included elected representatives such as the deputy mayor, member of legislative assembly, municipal officials, general public, affected persons and representatives of civil society. The project director, ULB chief officer, executive engineer, assistant executive engineer and assistant engineer of PIU, GKW Consultants and self-help group members were present;
- (ii) Some of the critical questions asked in the meeting included project details, the decision-making process, how long the project will take, cost of the project and loan interest details;
- (iii) Vendors expressed willingness to support the project. They requested that planks be provided for the customers to access their shops during construction;

- (iv) Vendors were informed that compensation will be paid prior to construction. The resettlement budget includes compensation at replacement for the affected persons;
- (v) Other issues raised included the quality of works under the KUDCEMP project, the need to remedy that work and wastage of funds due to the poor quality of work; and
- (vi) Minutes of the meeting (in Kannada), photographs and signature sheets are included in Appendix 6.

29. Information dissemination and disclosure have been a continuous process since the beginning of the program. To provide for more transparency in planning and for further active involvement of affected persons and other stakeholders, the project information will be disseminated through disclosure of final resettlement planning documents by ULB to the affected persons, community leaders, people's representatives and will be translated into the local language. A brief Public Information Disclosure (PID) leaflet containing project details, anticipated involuntary resettlement impact, entitlements, grievance redress mechanism and institutional arrangements will be printed in Kannada and disseminated to the public. The resettlement plan will be available at prominent government offices, ward offices and ULB offices and will be disclosed on ULB, KUIDFC and ADB websites.

30. A series of town level and ward level consultation meetings are planned throughout the duration of project implementation. Details of these meetings will be attached to the updated resettlement plan and subsequently, to the semi-annual social safeguards monitoring reports.

VI. GRIEVANCE REDRESS MECHANISM

31. As per the orders of Joint Managing Director KUIDFC Official Memorandum dated 28 June 2017 has been issued to the concerned for formation of project specific grievance redress mechanism (GRM). A scanned copy of Official Memorandum for formation of grievance redress committee (GRC) is provided in Appendix 10. It will be established to receive, evaluate and facilitate concerns of, complaints and grievances of the affected persons in relation to project's social and environmental performances. The main objective of the GRM will be to provide time bound action and transparent mechanisms to resolve social and environment concerns.

32. A project GRM will cover the project's towns for all kinds of grievances and will be regarded as an accessible and trusted platform for receiving and facilitating project related complaints and grievances. The multi-tier GRM for the program will have realistic time schedules to address grievances and specific responsible persons will be identified to address grievances and whom the displaced persons have access to interact easily.

33. Awareness on grievance redress procedures will be created through Public Awareness Campaign with the help of print and electronic media. The Safeguards Officer of RPMU will ensure that vulnerable households are also made aware of the GRM and assured of their grievances to be redressed adequately and in a timely manner.

34. There will be multiple means of registering grievances and complaints by dropping grievance forms in complaint/ suggestion boxes at accessible locations, or through telephone hotlines, email, post or writing in a complaint registrar book in ULB's project office. There will be complaint registrar book and complaint boxes at construction site office to enable quick response of grievances/ complaints for urgent matters. The name, address and contact details of the persons with details of the complaint/grievance, location of problem area, date of receipt

of complaint will be documented. The RPMU's Safeguards Officer will be responsible at the project level for timely resolution of the environmental and social safeguards issues and registration of grievances, and communication with the aggrieved persons.

A. Grievance Redressal Process

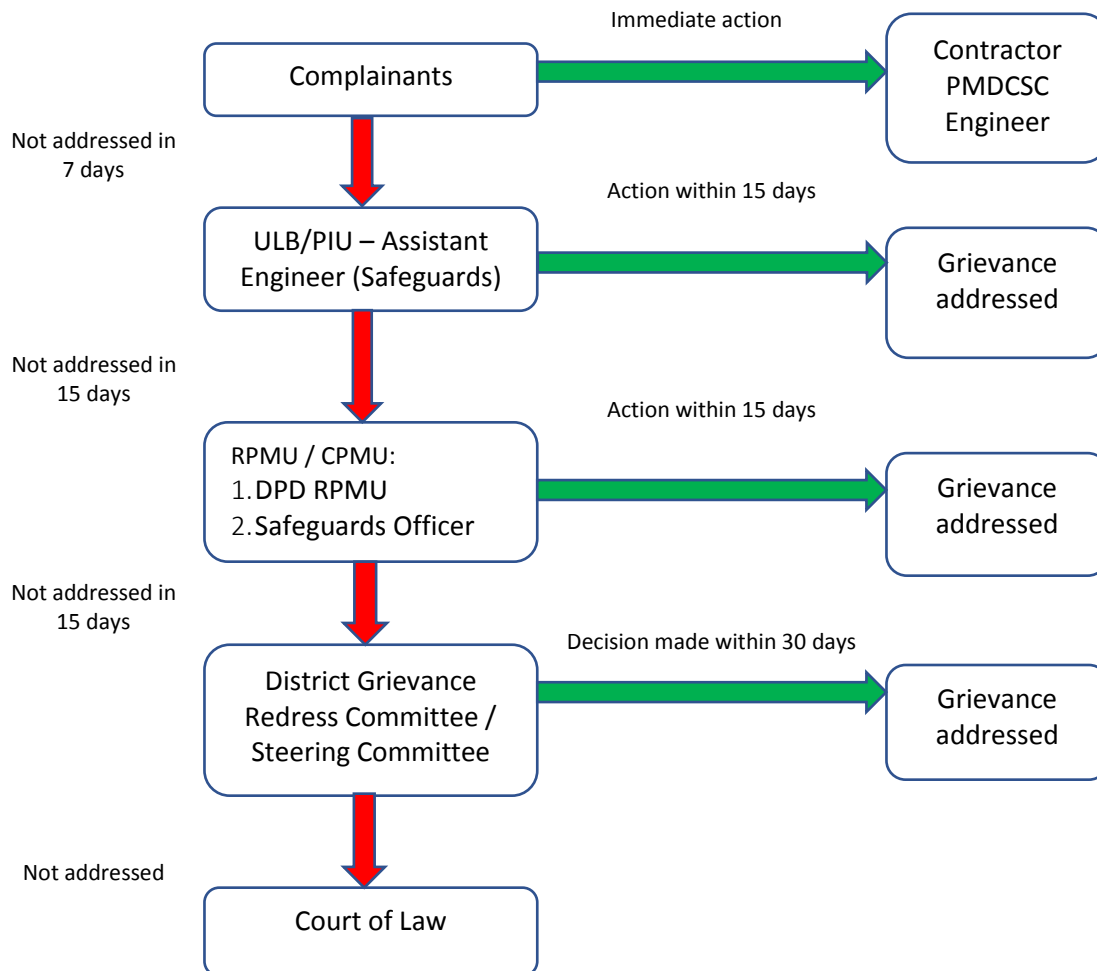
35. There will be several tiers for grievance redress process. Simple grievances for immediate redress will first be resolved at site by Contractor. If unaddressed for up to 7 days the complainants may go to PIU officer in ULB responsible for addressing resettlement/social issues. Resident engineer and the ULB will assist in resolving the issues. Name, designation and contact number of personnel responsible for grievance redress at ULB and RPMU, will be posted at the contractor's and PMDCSC's site office in full visibility of public. Grievances of immediate nature should be resolved at site/ within ULB/ PIU level within 15 days of registration of grievances.

36. All the grievances that cannot be resolved at ULB/ PIU within 15 days will be forwarded to the GRC headed Special Land Acquisition Officer/Assistant Commissioner of the concerned sub division who will review and resolve within 15 working days of grievance being registered with assistance of the concerned PIU/ULB personnel if required. The grievances of critical nature and those cannot be resolved at GRC level should be referred to District Level Implementation Committee (DLIC) set up at district level headed by Deputy Commissioner who will review the grievances and to be settled within 30 days. All documents related to grievances, follow up action taken to resolve along with explanatory note on nature, seriousness and time taken for grievance redress shall be prepared by RPMU Safeguards Officer and circulated to DLIC members at least a week prior to scheduled meeting. The decision taken at the DLIC level will be communicated to the complainant by Safeguards Officer, RPMU through ULB/PIU.

37. For any issues that remain unresolved by the GRC, it is referred to DLIC at the District Level. The complainants /displaced persons can approach the Court of Law at any time during the process.

B. Grievance Redress Committee Composition and Selection of Members

38. The GRC for the project will be headed by a Special Land Acquisition Officer/ Assistant Commissioner of the concerned sub-Division as Chairman of the subdivision with members as follows: (i) ULB Commissioners/chief officer of the concerned ULB towns; (ii) deputy project director as member secretary and convener; (iii) PMDCSC engineer; (iv) affected community member/nongovernment organization (NGO); and (v) safeguards officer RPMU KIUWMIP and will shoulder responsibility of keeping records of grievances/complaints in details. The Safeguards Officer of RPMU will be responsible for coordinating with all GRC members and the displaced persons for grievance redressal. The grievances of critical nature and those cannot be resolved at Divisional level should be referred to DLIC set up at District level they will determine the merit of each grievance and attempt to resolve the same within a month from the date of lodging of complaints. The decision of DLIC is final and cannot be contested in any other forum except in the Courts of Law.

Figure 5: Grievance Redress Process

CPMU = central project management unit, DPD = deputy project director, PMDCSC = project management construction and design supervision consultant, PIU = project implementing unit, RPMU = regional project management unit, ULB = urban local body.

39. **Record keeping.** Records of all grievances received, including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date these were effected and final outcome will be kept by PIU (with the support of PMDCSC) and submitted to PMU.

40. **Information Dissemination Methods of the Grievance Redress Mechanism.** The PIU, assisted by PMDCSC/CAPRRC will be responsible for information dissemination to affected persons and general public in the project area on grievance redress mechanism. Public awareness campaign will be conducted to ensure that awareness on the project and its grievance redress procedures is generated. The campaign will ensure that the poor, vulnerable and others are made aware of grievance redress procedures and entitlements per agreed entitlement matrix including whom to contact and when, where/ how to register grievance, various stages of grievance redress process, time likely to be taken for redress of minor and major grievances, etc. Grievances received and responses provided will be documented and reported back to the affected persons. The number of grievances recorded and resolved, and the outcomes will be displayed/disclosed in the PIU, offices, ULB notice boards and on the web,

as well as reported in the semi-annual environmental and social monitoring reports to be submitted to ADB.

41. **Periodic Review and Documentation of Lessons Learned.** The PMU will periodically review the functioning of the GRM and record information on the effectiveness of the mechanism, especially on the PIU's ability to prevent and address grievances.

42. **Costs.** All costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the respective PIU. Cost estimates for grievance redress are included in resettlement cost estimates.

43. **Country Legal Procedure.** An aggrieved person shall have access to the country's legal system at any stage and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.

44. **ADB's Accountability Mechanism.** 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 through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB India Resident Mission. The complaint can be submitted in any of the official languages of ADB's developing member countries. Before submitting a complaint to the Accountability Mechanism, it is recommended that affected people make a good faith effort to resolve their problems by working with the concerned ADB operations department (in this case, the resident mission). Only after doing that, and if they are still dissatisfied, they could approach the Accountability Mechanism. The ADB Accountability Mechanism information will be included in the project-relevant information to be distributed to the affected communities, as part of the project GRM.

VII. POLICY FRAMEWORK AND ENTITLEMENT

45. The objective of the policy framework and entitlement section is to identify key national, state and project-specific resettlement policies and legal issues involved in land acquisition and compensation. The policy framework describes the principles and approach to be followed in minimizing and mitigating negative social and economic impacts by the projects. This Resettlement Plan will be disclosed to the affected persons and submitted to ADB for review and approval prior to commencement of any civil works. Compensation and other assistances will have to be paid to affected persons prior to any physical or economic displacement.

46. The resettlement plan has been developed based on the national law - The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Act 30 of 2013) and Asian Development Bank's Safeguards Policy Statement, 2009.

47. Core principals discussed in the policy include that: (i) land acquisition, and other involuntary resettlement impacts will be avoided or minimized exploring all viable alternative subproject designs; (ii) where unavoidable, time-bound resettlement plans will be prepared and affected persons will be assisted in improving or at least regaining their pre-program standard of living; (iii) consultation with affected persons on compensation, disclosure of resettlement information to affected persons, and participation of affected persons in planning and implementing subprojects will be ensured; (iv) vulnerable groups will be provided special assistance; (v) payment of compensation to affected persons including non-titled persons (e.g., informal dwellers/squatters, and encroachers) for acquired assets at replacement rates; (vi) payment of compensation and resettlement assistance prior to the contractor taking physical

acquisition of the land and prior to the commencement of any construction activities; (vii) provision of income restoration and rehabilitation; and (viii) establishment of appropriate GRM.

48. The salient features of ADB and government policies and entitlements are discussed in detail in the resettlement framework. The resettlement framework specifies that in case of discrepancy between the policies of ADB and the government, ADB policy will prevail.

A. Types of Losses and Affected Person Category

49. The only type of loss anticipated under the Mangalore Sewerage Pumping Main Subproject is the temporary disruption of livelihood to small businesses.

50. The entitlement matrix below summarizes the types of possible losses and corresponding entitlements in accordance with ADB and government policies, based on the principle of replacement cost. In addition to the estimated potential temporary impacts, the entitlement matrix safeguards unforeseen impacts.

Table 10: Entitlement Matrix^a

	Type of Loss	Application	Definition of Entitled Person	Compensation Policy ^b	Implementation Issues ^c	Responsible Agency ^d
1	Temporary disruption of livelihood	Commercial and agricultural activities	Legal titleholders, tenants, leaseholders, employees, hawkers or vendors.	<p>1. 60 days advance notice regarding construction activities, including duration and type of disruption.</p> <p>2. Cash assistance based on the net income from the affected business or minimum wage for the loss of income/livelihood for the period of disruption, whichever is more.</p> <p>3. For construction activities involving disruption for a period of more than a month, provision of alternative sites for hawkers and vendors for continued economic activities. If not possible, allowance based on the net income^e of the affected business or minimum wage rate for the affected households up to 3 months or the actual period of disruption whichever is more.</p> <p>4. Free transport facility, or, one-time shifting allowance of ₹4000 per shift, or, shifting cost in the town, whichever is higher, if required to shift.</p> <p>5. Vulnerable households will be given priority in employment in the project construction activities.</p>	<ul style="list-style-type: none"> • Census survey will identify households whose livelihoods are temporarily affected, extent and type of loss. Census survey will also identify vulnerable households. • During construction, the regional project management unit (RPMU) and urban local body (ULB) will identify alternative temporary sites to the extent possible, for vendors and hawkers to continue economic activity. • RPMU/project management, design, construction and supervision consultant (PMDSC) in consultation with the ULB and project implementation unit (PIU) will ensure civil works will be phased to minimize disruption through construction scheduling in co-ordination with the contractors • Shifting cost likely to be incurred in a town 	RPMU in coordination with ULB, PIU and Contractors will identify alternative locations

	Type of Loss	Application	Definition of Entitled Person	Compensation Policy ^b	Implementation Issues ^c	Responsible Agency ^d
					will be determined on the basis of surveys and will be calculated as the cost incurred in shifting from and returning back to the same location.	
2	Any other loss not identified			<p>1. Any unanticipated impacts of the project will be documented and mitigated based on the spirit of the principles agreed upon in this resettlement framework and the Right to Fair Compensation and Transparency in Land Acquisition, Resettlement and Rehabilitation Act (RFCTLARRA)</p> <p>2. Unanticipated involuntary impacts will be documented and mitigated based on the principles provided in the ADB involuntary resettlement Policy.</p>		The RPMU in consultation with the concerned ULB and DLRC will ascertain the nature and extent of such loss. The PMU in consultation with RPMU will finalize the entitlements in line with the ADB Safeguard Policy Statement.

Note: All allowances and assistances in the entitlement matrix will be adjusted for inflation from the year of resettlement framework preparation to the year of compensation payment.

^a The complete entitlement matrix for KIUWMIP is presented in the resettlement framework.

^b Transportation costs, monthly subsistence allowance and resettlement costs are not incremental. For example, if an affected household loses land, shelter and commercial business in one lot, the family will get each of these allowances only once. Statutory compensation rates will be adjusted for inflation till the year of compensation payment.

^c For any design, build and operate (DBO) contracts, the DBO contractor undertakes design tasks.

^d For any design, build and operate (DBO) contracts, the DBO contractor carries out design responsibilities.

^e Verification of reported income will be undertaken based on net income as per income tax returns, or in the absence of such records, based on survey of similar businesses in the vicinity.

VIII. INCOME RESTORATION

51. The objective of income restoration activities is to ensure that no affected person shall become worse-off compared to pre-project status due to project. In case of temporary economic impacts, the entitlement matrix provides for compensation at replacement cost. Compensation against temporary income loss or the minimum wage for the period of disruption whichever is greater will be provided. Compensation and assistance to affected persons must be made prior to displacement. The Safeguard Officer of the RPMU will develop an appropriate plan to ensure that project affected persons, particularly vulnerable affected persons are accorded priority in project construction work, should they be willing and available. The plan shall be developed in consultation with the affected persons. Special attention will be given to the vulnerable affected persons. Sufficient budget for income restoration activities is provided in the resettlement budget.

IX. RESETTLEMENT BUDGET AND FINANCING PLAN

52. The resettlement budget includes potential income losses to small business enterprises who will experience temporary impacts. The budget will be updated as required to as per the detailed survey and based on the detailed design and latest replacement costs and resettlement plan will be updated. The resettlement budget includes: (i) detailed costs for resettlement assistance for temporary income loss; (ii) source of funding; (iii) administrative costs; (iv) monitoring cost; and (v) arrangement for approval, and the flow of funds and contingency arrangements. All resettlement assistances, administrative, monitoring and consultant cost, and income and livelihood restoration cost will be borne from the Project cost. The PMU will ensure timely disbursement of funds to the ULB for resettlement and rehabilitation assistance through the CAPRRC. The cost of all resettlement activities will be an integral part of the overall Project cost.

53. The business survey of 68 shops along the alignment in April 2017 indicates that the overall average income is ₹2,536.47 per day. After discounting the outliers, the average daily income was found to be ₹1,650. A budget has been created for the temporarily affected persons. The compensation is the average daily income times the number of days they will be affected (15) due to the construction.

Table 11: Indicative Budget for Resettlement Plan Implementation^a

No.	Compensation for Type of Loss	Quantity	Unit Rate (₹)	Total Amount (₹)	Total Amount (\$1=₹64)	Source of Fund	Timeline
A	Resettlement Cost: Temporary Impact						
1	Income loss for the 68 vendors	68 x 15 days	2,536.47 ^b	25,87,200 ^c		Project management unit (PMU) to place fund with urban local body (ULB) to be disbursed by ULB	Prior to displacement.
2	Provisional sum towards shifting allowance ^d	Lumpsum		50,000			Prior to displacement.
	Subtotal of A			2,637,200	41,206		
B	Other costs						
3	Grievance redress, project information disclosure in local language	Lumpsum		500,000			Grievance redress mechanism (GRM) costs e.g., meeting/ communication related expenses, transport costs for affected persons to attend GRC meetings/hearings will be met by project implementation unit (PIU). Any costs related to printing of project information disclosure materials, translation of resettlement plan/PID leaflets, costs of signage displaying contact details for grievance redress etc. shall borne by PIU.
5	Detailed measurement survey for resettlement plan updating	Lumpsum		300,000			Based on detailed design by design, build and operate (DBO) contractor
	Subtotal of B			800,000	12,500		
		Subtotal of A+B		3,437,200	53,706		
		Contingency at 10%		343,720	5,370		
		Grand Total ₹37,80,920 or \$59,077 (approx. \$60,000)					

Note: CAPRRC costs are not included in this resettlement plan budget; however, consultancy costs are part of overall project cost. It is envisaged that the CAPRRC will be responsible for communication and awareness generation regarding project benefits to beneficiaries and affected persons. The CAPRRC will provide assistance to the affected persons and to the ULB to ensure smooth execution of this resettlement plan.

^a Budget will be revised based on detailed measurement survey/census surveys in updated resettlement plan.

- ^b The overall average daily income reported by the affected persons is used for the purpose of preparation of budget in this draft resettlement plan. Costs in the updated resettlement plan will be based on a comparison of census and socio-economic survey data on income with the prevailing notified minimum wage rate at the time of compensation payment. Verification of reported income will be undertaken based on net income as per income tax returns, or in the absence of such records, based on survey of similar businesses in the vicinity. In case any of the businesses / affected persons wish to forego their compensation as recorded during the consultations and listing/inventory of affected businesses, the same will be indicated in writing by them and will require third party certification, which will be appended to the updated resettlement plan.
- ^c Calculated for 15 days per section of construction work.
- ^d Shifting allowance is budgeted based on average van hire charges (half a day each for shifting from and back to the location) in this region of Karnataka. The affected persons who are required to shift will be given the option of availing the budgeted shifting allowance or ULB-provided free transport for shifting, whichever is acceptable to them. The shifting allowance will be paid only in case the vendor is required to shift. The majority of affected businesses in Mangalore will not be required to shift. The need to utilize the provisional sum towards shifting cost will be confirmed based on the detailed measurement survey.

54. All costs involved in the complaints (meetings, consultations, communication, information dissemination and GRM) will be borne by the PIU. These costs will be added to the budget as they accrue in the updated resettlement plan.

X. INSTITUTIONAL ARRANGEMENTS AND IMPLEMENTATION

A. Institutional Structure and Capacity

55. Karnataka Urban Infrastructure Development and Finance Corporation (KUIDFC) is the nodal executing agency responsible for implementing KIUWMIP. KUIDFC is a fully owned Government of Karnataka company registered under the Companies Act, 1956. In the context of KIUWMIP, KUIDFC has established a project management unit (PMU) at KUIDFC headquarters in Bangalore and regional project management unit (RPMU) at the District level.

56. For this subproject, ULB of Mangalore will be the implementing agency, supported by its project implementation unit (PIU) to implement subproject components of water supply and waste water including resettlement activities. ULB staff, officers and the commissioner of Kundapura will need to be trained in ADB's involuntary resettlement policy as stated in SPS. The KUIDFC PMU will employ a social development officer (SDO) designated for implementing resettlement activities under KIUWMIP and a safeguards officer at RPMU. The persons would be selected based on their experience in handling resettlement activities for similar external aided projects. PMU, ULBs and PIU should ensure that the staff and officers are updated with recent safeguards requirement of ADB SPS, 2009. If required, orientation course should be organised to develop their capacity in understanding and implementing involuntary resettlement activities.

57. The community awareness, participation, rehabilitation and resettlement consultant (CAPRRC) of RPMU will have an important role in carrying out resettlement plan implementing activities from project preparation stage to completion of resettlement plan including income restoration activities, if any. The CAPRRC of the RPMU should have a thorough understanding and knowledge of ADB's safeguard policies/guidelines, preferably with experience of implementing resettlement plan activities for ADB or other external financing agencies. The CAPRRC of RPMU should also undergo capacity development and orientation course on ADB safeguard requirements. Most importantly, s/he has a key role in income restoration and livelihood rehabilitation activities, particularly for the vulnerable people who are entitled for such assistance. CAPRRC will help in identifying skill development government training institutes for alternative livelihood trainings for displaced persons if any due to construction activities.

58. The RPMU will be assisted by a safeguards officer as well as by resettlement specialist of the PMDCSC to assist and monitor project compliance on safeguards. In each PIU, an assistant engineer (Safeguards) will coordinate the safeguard tasks at PIU/town level. The following are institutional roles and responsibilities to ensure social safeguards requirements are followed during design and construction stages.

59. The responsibilities of the PMU's SDO include:

- (i) Ensure that the resettlement framework provisions are adhered to and the draft resettlement plans prepared during project processing are updated based on detailed designs;

- (ii) Engage in meaningful consultations with stakeholders and affected persons particularly through implementation of the consultation and participation;
- (iii) Update the resettlement plans upon the completion of detail design and submit to ADB for review, approval and disclosure;
- (iv) Prepare resettlement plans or DDRs for new subprojects with support from the national social safeguards specialists of PMDCSC. The outline of the resettlement plans and DDR is in Appendix 9 of the Project Administration Manual (PAM);
- (v) Ensure provision of timely payments by the local government to the affected persons before displacement/impact occurs in sections ready for construction;
- (vi) Inform ADB for any unanticipated impacts identified during project implementation, prepare/review the required corrective action plan (CAP) and implement/monitor its implementation;
- (vii) Ensure implementation of project grievance redress mechanism (GRM) and all grievances are addressed;
- (viii) Conduct regular monitoring and site visits for social safeguard compliance of all subprojects during civil works activities;
- (ix) Maintain safeguard data base and GRM records;
- (x) Conduct oversight and develop effective mechanism to monitor implementation of Resettlement Plans to ensure smooth project implementation;
- (xi) Review the consolidated monthly reports by PMDCSC social safeguards specialist, CAPRRC, and submit semi-annual monitoring reports to ADB. The monitoring reports should record the progress of resettlement activities and any compliance issues, grievances, corrective actions taken, follow-up actions required and status of compliance with relevant loan covenants.
- (xii) assist project director and guide CAPRRC in implementation of the GESI action plan; and
- (xiii) review monthly monitoring reports to be submitted by RPMU/PIUs and consolidate/ prepare quarterly progress report on GESI progress to be submitted with project QPR to ADB.

60. The Safeguards Officer of regional offices will be responsible for the following tasks:

- (i) Engage in ongoing meaningful consultations with stakeholders and affected persons particularly through consultation and participation;
- (ii) Undertake pre-construction consultations on the work breakdown structure with the temporarily affected persons who will be identified through the detailed measurement survey, including affected vulnerable persons and women if any, to help identify work that fits their skills and capacities.
- (iii) Update the resettlement plans upon the completion of detail design and submit to PMU for onward submission to ADB for review, approval and disclosure;
- (iv) Prepare resettlement plans or DDRs for new subprojects, as needed, with support from the national social safeguards specialists of PMDCSC. The outline of the resettlement plans and DDR is in Appendix 9 of the PAM;
- (v) Translate and disclose the final resettlement plans/ DDRs into proper language and forms that are accessible to the affected communities/ people;
- (vi) Ensure provision of timely payments by the Municipality to the affected persons before displacement/impact occurs in sections ready for construction;
- (vii) Assist in identification of third party in case of any negotiated settlement/land donation;

- (viii) Guide and assist PIUs to ensure that NOCs, land documents, third party certifications as required for each subproject are obtained;
- (ix) Inform ADB of any unanticipated impacts identified during project implementation, prepare the required CAP and implement it;
- (x) Ensure implementation of project GRM and all grievances are properly addressed;
- (xi) Conduct regular monitoring and site visits for social safeguard compliance of all subprojects during civil works activities;
- (xii) Ensure that internal monitoring covers income restoration activities and results of monitoring are reported in the semi-annual monitoring report;
- (xiii) Monitor the work of CAPRRC on resettlement, CAPP and GESI activities; and
- (xiv) Maintain safeguard database, GRM records, key gender results and good practices.

61. The Social Safeguards and Gender Specialist PMDCSC will be responsible for the following tasks:

- (i) Establish a system to monitor social safeguards and gender outcomes of the Project; including the implementation of the income restoration plan, the functioning of the grievance redress mechanism, and prepare indicators for monitoring important parameters of safeguards and gender;
- (ii) Take proactive action to anticipate the gender equality and social inclusion and social safeguards aspects of the project to avoid delays in implementation;
- (iii) Support PMU/RPMU to prepare resettlement plans for proposed subprojects;
- (iv) Support the PMU in ensuring that the social safeguard and GESI activities are carried out in accordance with the agreed plans and frameworks; and
- (v) Ensure that the relevant measures specified in the resettlement plans, and GESI action plan will be incorporated in bidding documents and approved by ADB prior to issuance of invitation for bidding and monitor their compliance on behalf of PMU/RPMU; and ensure monitoring of social safeguards plans and GESI action plan and address unanticipated impacts, if any; and provide training programs to PMU/RPMU/PIU staff and contractors involved in the project implementation for strengthening their capacity in managing and monitoring social safeguards and gender.

62. A CAPRRC will be appointed by Government of Karnataka according to the Government of Karnataka procurement guidelines. The roles and responsibilities of CAPRRC include:

- (i) Conducting socioeconomic survey of the temporary or permanent displaced persons/affected persons, and identification of vulnerable groups;
- (ii) Disclosure of affected land and list of affected families and persons in the local newspapers/municipality website/public places in local language, Identification of temporary displacement places;
- (iii) Formation of GRM at municipality level as per the resettlement framework, identification of options of affected persons for enhancement of their livelihoods, in consultation with affected persons;
- (iv) Motivation of affected persons to ensure proper utilization of the compensation money for purchase of equipment and tools, especially vulnerable families;
- (v) Facilitation and distribution of compensation for affected persons and temporarily displaced persons;

- (vi) Identification of local resource institutions for Income Generating Activities (IGA) for affected persons;
- (vii) Providing data on inputs, outputs and impact indicators for the ULB to monitor resettlement plan implementation;
- (viii) Organizing IGA Activities for Displaced Persons and Linking affected persons with other government departmental schemes for enhancement of livelihood promotions. Preparation of documentation on best practices on R&R related issues;
- (ix) Assisting ULB in public information campaign in Kannada at the commencement of the project to inform the affected communities of the need for shifting of squatters and encroachers from temporary impact zone along construction sites; and
- (x) Providing orientation/training to the ULB and Project Officials on Land Acquisition, Rehabilitation and Resettlement Act, 2013 (LARR) and ADB SPS.

63. **Resettlement Plan Implementation.** A well-coordinated action plan for all the responsible organizations/ Government Departments is necessary for successful and timely implementation of resettlement plan. The Institutions involved are the District Authorities, Requisitioning Authorities/PIU, and RPMU with the assigned Social Development officer as its focal person. Besides, PMU at Head office -will be responsible for the updated resettlement plan and will ensure approval from ADB prior implementation. ULB will be the implementing agency and will be primarily responsible for implementing resettlement plan activities on a day to day basis. Each of these bodies is responsible for certain functions related to resettlement plan implementation and hence coordination among them is essential.

64. The resettlement plan finalization and implementation activities will cover:

- (i) Identification of cut-off date, resettlement plan updating/ finalization, conducting census and preparation of photo identity cards and notification for land acquisition, if any, and final consultations to the affected peoples. All eligible displaced persons will be issued identity cards containing details and types of loss, entitlement as early as possible to avoid encroachers and squatters taking possession of land after cut-off-date. These identity cards will be verified by PIU, and issued by the concerned ULBs.
- (ii) Preparing the displaced persons for physical relocation through consultation process, as required, and identification of eligible displaced persons for economic rehabilitation with the help of providing income restoration trainings.
- (iii) During implementation, the safeguard officer/CAPRRC of RPMU will review resettlement plan implementation progress. The ULB will be supported by the Safeguard Officer/CAPRRC of RPMU to conduct regular internal monitoring of resettlement implementation. Semi Annual Social Safeguards monitoring report will be prepared by PMDCSC consultants and required to be submitted by PMU for onward submission to ADB for review and disclosure. The reports will contain progress made in resettlement plan implementation with particular attention to compliance with the principles and Entitlement Matrix set out in the Resettlement Framework. The report will also document consultation activities conducted, provide summary of grievances or problems identified, complaints lodged by the displaced persons and actions taken to redress such complaints.
- (iv) The SDO, safeguards officer, CAPRRC of RPMU, ULB officials will undergo an orientation and training program designed for resettlement management. The training activities will focus on issues concerning (a) principles and procedures of

land acquisition; (b) ADB's safeguard policy requirement; (c) public consultation and participation; (d) entitlements and compensation disbursement mechanisms; (e) grievance redressal; and (f) monitoring of resettlement operation. The orientation and training will be financed under the project and will occur prior to commencement of resettlement plan preparation, in the beginning of resettlement plan implementation and once midway through resettlement plan implementation. KUIDFC will ensure that resettlement budgets are delivered on time to the ULB, the PIU for timely resettlement plan implementation.

- (v) The physical resettlement, including payment of compensation and assistances must be completed before the start of civil works. affected persons will get sufficient notice to vacate their property before civil works begin. All physical relocation, compensation/ assistance payment schedule will be completed in one and a half years. However, economic rehabilitation activities including income restoration programs may take longer time to complete depending on nature of trainings. The vocational training will commence after physical relocation, if any and payment of compensation and assistance is likely to continue from a period of three to six months depending on nature of trainings.

65. The roles and responsibilities of the various Institutions/organizations are listed in the table below.

Table 12: Roles and Responsibilities of Institutions

No.	Activities	Responsible Authority/Agency	Time Schedule
Project Preparatory Stage			
1	Finalization of designs/alignments Detailed project report by finalizing design option to minimize resettlement impact	Karnataka Urban Infrastructure Development and Finance Corporation (KUIDFC) appoint program management design construction supervision consultants (PMDSC)	15 days 7 days
2	Disclosure of final design option Formation of district level implementation committee (DLIC) Consultation/focus group discussion (FGD) with displaced persons/road side hawker/vendors to be affected by temporary impact	Project management unit (PMU) to complete formation of DLIC Depute/appoint designate Safeguards officer Safeguard officer/community awareness, participation, rehabilitation and resettlement consultant (CAPRRC) to start consultation with Land owner/all affected persons with permanent or temporary impact.	90 days
Resettlement Plan Finalization Stage			

No.	Activities	Responsible Authority/Agency	Time Schedule
3	Detailed measurement survey/Census enumeration/social impact assessment survey of displaced persons for updating resettlement plan, identifying temporary impact, preparation and distribution of photo identity cards, if necessary Formal announcement of project cut-off date	Safeguards officer of regional project management unit (RPMU) will help urban local bodies (ULBs) prepare photo Identity cards after verification of displaced persons with support of the concerned ULB officials and CAPRRC.	15 days for DMS/census verification 15 days for preparation of updated resettlement plan and distribution of identity cards as and when necessary
5	Categorization of all displaced persons for entitlement eligibility	Safeguards officer of RPMU with support of the ULB and CAPRRC to categorize displaced persons, as per entitlement eligibility/type of loss.	15 days
6	Calculation of replacement costs for temporary income loss	ULB will compute replacement cost of all losses.	15 days
7	Formulating all compensation and assistances for the displaced persons and economic rehabilitation measures, as required Conduct consultation/meeting with the displaced persons for compensation/assistance as per entitlement matrix	ULB to calculate resettlement assistance for disbursement and special assistance for vulnerable affected persons (project related construction work). ULB/CAPRRC to organize consultation /meeting with affected persons to disclose detailed information on loss, entitlement, compensation and assistance.	15 days 15 days (both activities to continue simultaneously)
8	Finalizing compensation and rehabilitation packages and Preparation of updated/Final Resettlement plan	ULB to finalize compensation packages, PMDCSC will update resettlement plan based on detailed measurement survey during implementation period. PMU to evaluate resettlement plan in the light of Asian Development Bank (ADB) compliance and resettlement plan budget and send to ADB for its approval.	15 days 15 days

No.	Activities	Responsible Authority/Agency	Time Schedule
9	Disclosure of updated resettlement plan, particularly final entitlement and rehabilitation packages to all displaced persons	ULB to circulate copies of updated resettlement plan with entitlement packages to all stakeholders in disclosure meeting, where safeguard office of RPMU, CAPRRC and affected person/affected person's representatives will be present affected persons to accept entitlement and rehabilitation as per resettlement framework/entitlement matrix.	15 days 15 days
10	Approval of final resettlement plan	ADB to approve final resettlement plan KUIDFC-PMU to arrange for translation and disclosure of final resettlement plan among the displaced persons and stakeholders	15 days 15 days
Resettlement Plan Implementation Stage			
11	Payment of resettlement assistance to eligible displaced persons/incl. assistance for vulnerable displaced persons for income restoration	KUIDFC will provide fund allocation Disbursement of compensation by KUIDFC Disbursement of resettlement assistance to be monitored by safeguard office at RPMU level.	15 days for disbursement of assistance
12	Grievance redress SDO to coordinate with RPMU, assist displaced persons, especially the vulnerable ones to have access to GRC/DLIC	Grievance redress committee (GRC) set up at divisional and DLIC at district level ULB to address grievances at initial stage More serious grievances to be addressed by GRC at divisional and DLIC at district level	To continue throughout resettlement plan implementation
13	Monitoring and reporting	PDMCSC will prepare half yearly Semi-annual social safeguards monitoring report/and send to PMU through RPMU PMU to report resettlement plan activities to ADB on safeguard compliance.	Semi-annual during resettlement plan implementation Throughout resettlement plan implementation

B. Training and Capacity Building

66. The safeguards personnel of the project consultants (RPMU, PMU, PDMCSC, SDO, safeguards officer and CAPRRC), and other key project related staff of RPMU and PMUs, will be oriented and trained by ADB on ADB safeguards policy and the approved project resettlement framework; resettlement plan preparation and updating process; monitoring, reporting and disclosure requirements, roles of different stakeholders in safeguards implementation and GRM, envisaged consultation and participation process, reporting and

monitoring requirements, core labour standards for contractors, handling issues in social inclusion, potential conflict resolution, typical implementation issues, and lessons learnt in safeguards implementation in other ADB funded water supply projects. The key focus area of the training program will be ADB resettlement policy and principles and the training will focus on the differences between the provisions of the ADB policy and Government of India/Government of Karnataka laws, as the awareness of these differences and the need to follow the provisions of ADB policy are critical for successful implementation of resettlement plans.

67. The PMU will be responsible for development of a training program based on a capacity assessment of target participants (contractor(s), field staff, and PIU) and for implementation of the training program to build capabilities on resettlement policy, planning, mitigation measures and safeguards. Basic principles of resettlement planning, avoidance of involuntary resettlement impacts and minimization measures with an emphasis on protection of the poor and vulnerable, access to project information and benefits by affected persons, grievance redress process and its importance, and monitoring shall be covered in the training. Training on involuntary resettlement and gender issues shall not only be given to social safeguards personnel of project consultants, PMU and PIUs but also to design and supervision engineers and contractors' personnel.

68. To implement all these activities Safeguards Officer of RPMU will need to have a comprehensive knowledge of ADB's safeguard policy requirement. Keeping all these in view training modules will be prepared before implementation commences. One orientation training course will be organized for awareness about ADB policy and project implementation in compliance with ADB safeguards policy and a rigorous orientation training will be arranged for the SDO, who will be primarily responsible for implementation of resettlement plan, making the affected persons, particularly the vulnerable ones, aware about their rights and entitlement, make GRM effective and last but not the least monitoring all resettlement plan activities according to plan. Since the ULB is the major implementing authority the personnel responsible for resettlement plan implementation will be given training in ADB safeguard policy as well along with RPMU. Those responsible at ULB level are: land revenue officials, the Commissioner/Chief Officer, community affairs personnel – all these personnel will be given orientation training and then followed by refreshers' course with experience sharing in resettlement plan implementation. In the event of negotiated land purchase or donation of land, independent third-party monitoring is an essential requirement and a part of compliance for social safeguard issue. The training component will also include modality of such third-party monitoring, evaluation process, documentation and endorsement procedures. The training activity will be conducted by KUIDFC Social Development Officer or assigned National safeguard specialist with qualified experience and familiarity with ADB SPS, 2009 and requirement of ADB financed project. They will be provided with a course on Training of the Trainers which will enable them to guide ULB personnel and monitor resettlement plan activities.

XI. IMPLEMENTATION SCHEDULE

69. Project implementation period (civil works) is expected to require 33 months to complete. Resettlement plan finalization and implementation are 12 months. All compensation and assistance per the entitlement matrix will be completed prior to the start of the civil work at each specific site and/or stretch. Written confirmation is required to be sent by the PMU to ADB stating that all compensation has been paid to affected persons. Construction work can begin only in sites and sections where compensation has been paid.

Table 13: Implementation Schedule

Activities	Base Year Prior to Implementation				Year 1				Year 2				Year 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Appoint safeguards officer at Regional Project Management Unit																
Establish Grievance Redress Committee and District Level Investment Committee																
Appoint Contractor and Community Awareness, Participation, Rehabilitation and Resettlement Consultant with safeguards personnel																
Conduct involuntary resettlement training for, Consultants, Project Staff and contractors for awareness building																
Conduct detailed measurement surveys																
Update draft resettlement plan to reflect final impact and vulnerable affected persons according to final design and as per DMS																
Consultations and disclosure of Updated resettlement plan to urban local body (ULB)																
Review and approval (by Project Management Unit and ADB), proceed with resettlement plan disclosure to displaced persons including entitlement, Grievance Redress Mechanism																
Issuance of notice to displaced persons, as required																
Compensation to affected persons ^a																
Start of civil works																
Internal monitoring, including surveys of affected persons on entitlements, satisfaction surveys																
Repair/reconstruction of affected facilities, structures, connections, utilities if any affected facilities, structures, connections, utilities if any	Immediately, in co-ordination with other departments, as required															

^a Implementation of the project civil works is in stages; compensation will be paid before each stage of civil work.

XII. MONITORING AND REPORTING

A. Monitoring

70. Monitoring involves periodic checking to ascertain whether resettlement activities are progressing according to resettlement plan. Monitoring will cover physical and financial components and provides feedback to keep the program on schedule. Monitoring indicators include: (i) number of days of income loss for which affected persons are compensated, (ii) period of actual disruption along alignment where affected persons are located, (iii) when incomes recovered to pre-project level, and (iv) whether access to the vending sites continued. The RPMU/PMDCSC will conduct regular internal monitoring of resettlement implementation and prepare semi-annual monitoring reports for submission to ADB. The reports will contain progress made in resettlement plan implementation with particular attention to compliance with the principles and entitlement matrix set out in the resettlement plan. It will identify potential difficulties and issues hindering resettlement plan implementation in coordination with civil works. The report will provide summary of issues or problems identified and actions taken to resolve the issues; and provide a summary of grievances or complaints lodged by households and actions taken to redress such complaints. The PMDCSC will prepare semi-annual social safeguards reports and submit them to the RPMU, who in turn will submit the reports to PMU Head Office of KUIDFC.

71. In resettlement plan implementation, the internal monitoring system will perform the following key tasks:

- (i) Administrative monitoring to ensure that implementation is on schedule, funds for resettlement plan execution is released in a timely manner and those grievances are dealt with adequately;
- (ii) A sample baseline database on socioeconomic condition of the displaced persons will be prepared with pre-project information derived from SIA database at resettlement plan preparation stage and a comparison will be made with the present condition of the displaced persons during resettlement plan implementation stage and after the relocation process, if involved; and
- (iii) Feedback of rehabilitation measures will be taken to ensure that people are settled and recovering from resettlement process. This will be part of impact evaluation process that will assess effectiveness of the resettlement plan and re-establishment of the displaced persons post resettlement stage.

B. Reporting

72. ADB will monitor and evaluate the resettlement plan implementation and economic rehabilitation activities during entire project period. The monitoring report will contain evaluation of the resettlement plan implementation, its efficacy and provide valuable insight into the constraints in the way of implementation of resettlement plan.

73. The monitoring indicators for evaluation of the objectives achieved under the resettlement and rehabilitation program are of three kinds:

- (i) Process indicators, indicating project inputs, expenditure, staff deployment;
- (ii) Output indicators, indicating results in terms of numbers of affected people compensated/assisted and resettled, skill development training organized, credit

- disbursed, and number of displaced persons capable of reorganizing their economic livelihood; and
- (iii) Impact indicators, related to the long-term effects of the project on people's lives, including social network regained, economic standard sustained.

74. Monitoring will also cover the physical progress of project provided resettlement sites, if any such are established. It will also evaluate access to infrastructural facilities at the relocation sites, and performance of ULB, and PMU in implanting resettlement activities. Monitoring reports will be prepared/submitted semi-annually by PMU to ADB for review and disclosure.

SAMPLE PAMPHLET OF PROJECT INFORMATION DISCLOSURE

A. Program Background

1. Karnataka Integrated Urban Water Management Investment Program (KIUWMIP) is an Asian Development Bank (ADB) financed program on improvement of sustainable urban service of water supply and sanitation (UWSS) for selected towns/urban local bodies (ULBs) of Karnataka. The towns suffer from irregular and insufficient urban service in the state. The towns were selected based on IWRM principle and manageability of program implementation through the Public-Private Partnership (PPP) model. Selection process of the towns was in consultation with the project proponent, Karnataka urban Infrastructure Development and Finance Corporation (KUIDFC) and subject towns through a series of stakeholder consultation process.

B. Project Description and Component

2. The ULB of Mangalore is the statutory entity responsible for providing water and waste water service to the people. However, the ULB suffers from a resource crisis without capacity or capability to operate and maintain these civic infrastructure systems. At present only part of the town is covered by the sewerage network and water supply system also needs renovation and augmentation of water treatment facility, additional water storage capacity and renovation of distribution network.

- (i) 1,100 millimeters (mm) dia ductile iron K9 Class Pipe from Wet well No-3, Kudroli to 43.5 million liters per day (MLD) sewage treatment plant (STP) at Kavor for a length of 7650 meters (m).
- (ii) 900 mm dia ductile iron K9 class pipe from Wet Well No-4, Kanadathpalli to Wet Well No-3, Kudroli for a length of 950 m.
- (iii) 450 mm dia ductile iron K9 class pipe from Wet Well No-6, Mulihitlu to Ridge Manhole near Morgansgate for a length of 1,700 m.
- (iv) 450 mm dia ductile iron K9 class pipe from Wet Well No-7, Jeppu Bappal to Ridge Manhole inside premises of old STP at Ekkur for a length of 1,100 m.

C. Policy and Principle of Resettlement Plan Implementation

3. The resettlement principles adopted for mitigating involuntary resettlement impact will adopt the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (Act 30 of 2013), and the relevant ADB Safeguards Policy Statement (SPS) of 2009 and Operations Manual F1 (2010). The resettlement plan has been prepared keeping all these policies and principles in view and will be implemented after updating impact in detailed design and measurement survey.

D. Entitlement

4. No land acquisition is involved. A total of 68 shopkeepers are estimated to suffer a temporary loss to livelihood for 15 days each during the construction period. They will be compensated by the project.

E. Institutional Arrangement

5. The social development officer at PMU will confirm and update the resettlement plan. The safeguards officer of RPMU will be responsible for regular monitoring, resettlement plan

implementation and identifying potential problems. Monitoring reports will also contain resettlement compliance, apart from progress in resettlement plan implementation. The reports will be submitted to ADB on a half yearly basis by the PMU.

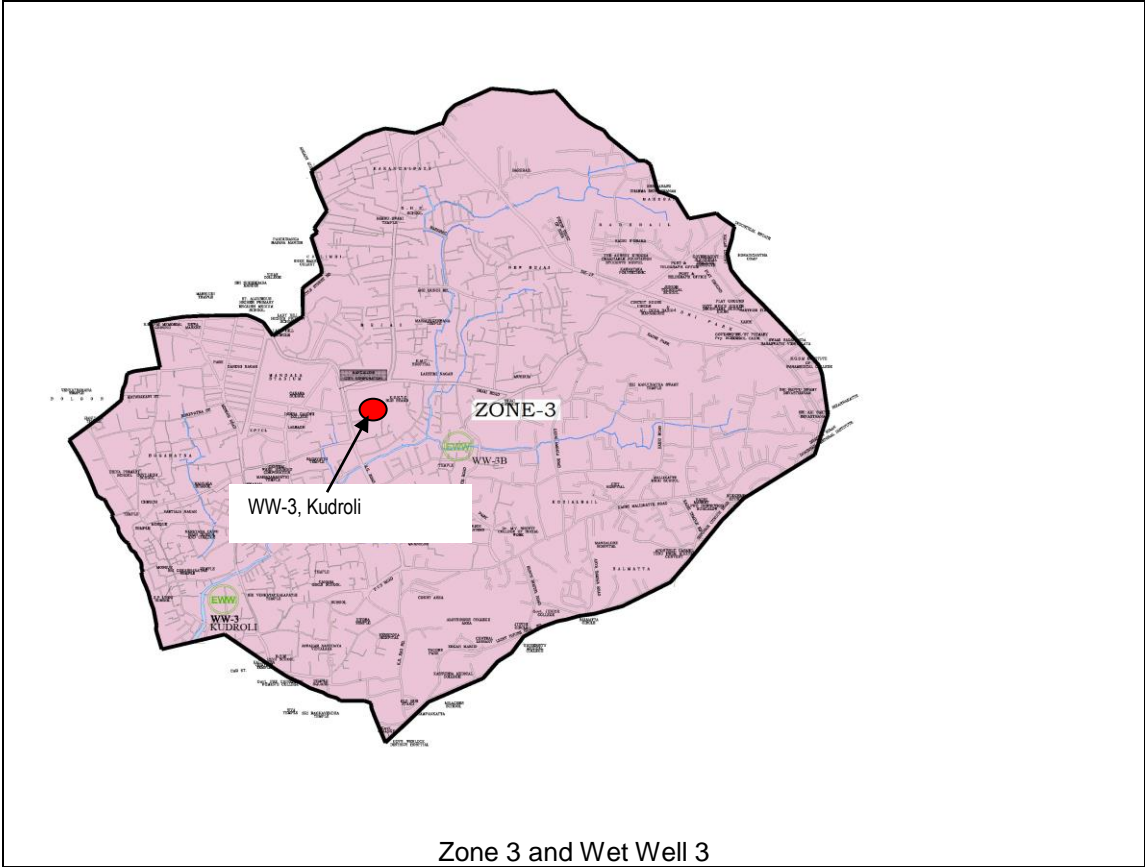
F. Grievance Redress Mechanism

6. As per the orders of Joint Managing Director KUIDFC, an Official Memorandum dated 28 June 2017 has been issued to the concerned for formation of project specific grievance redress mechanism (GRM). The GRM is established to receive, evaluate and facilitate concerns of, complaints and grievances of the affected persons in relation to project's social and environmental performances. The main objective of the GRM is to provide time bound action and transparent mechanisms to resolve social and environment concerns.

Details for inquiries:

Name: Mohammed Nazeer Designation: Commissioner Project implementation unit (PIU) KIUWMIP Telephone: 0824- 2220310 Mob: 9945794353 E-mail: commissioner.mcc@gmail.com Address: Mangalore City Corporation Mangalore Karnataka State	Name: B. Nagabhushana Aradhya Designation: Assistant Executive Engineer PIU KIUWMIP Telephone No: 9448061285 0824- 2981109 E-mail: jalasitrancher2dpd@gmail.com Address: MCC commercial complex, 1st Floor, Mallikatta, Mangalore, Mangalore District. Karnataka State PIN 575002
Name: Prabhakar Sharma Designation: Deputy Project Director KIUWMIP, RPMU Telephone No: 9448446099 0824- 2981109 E-mail: jalasitrancher2dpd@gmail.com Address: MCC commercial complex, 1st Floor, Mallikatta, Mangalore, Mangalore District. Karnataka State PIN 575002	

PUMPING MAIN ALIGNMENTS BY ZONE

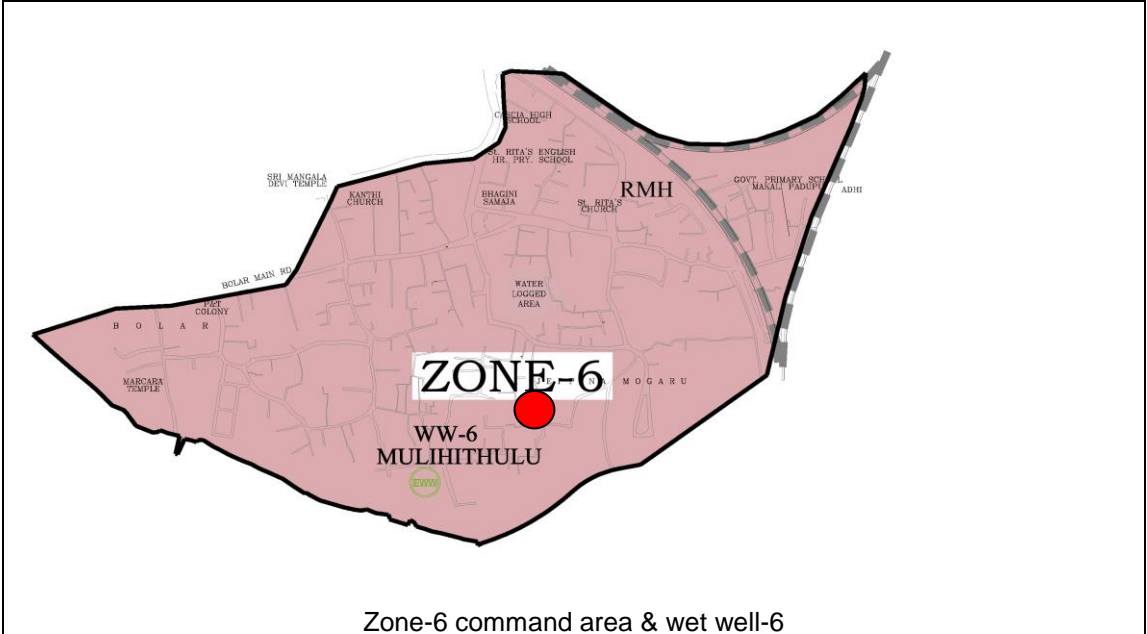


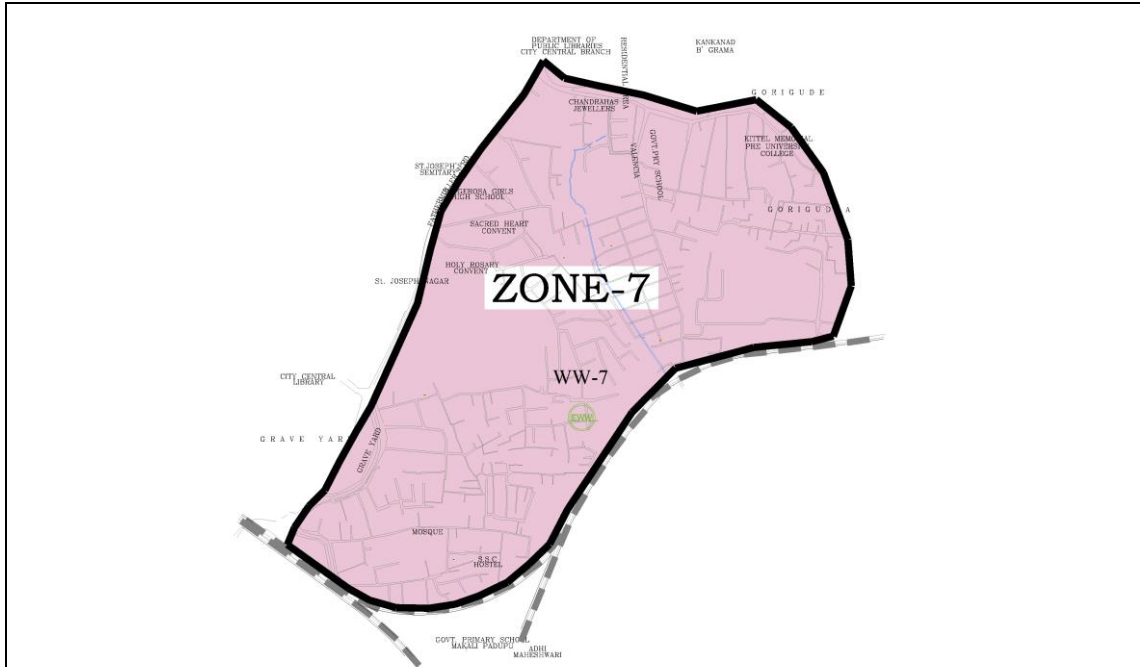
Zone 3 and Wet Well 3



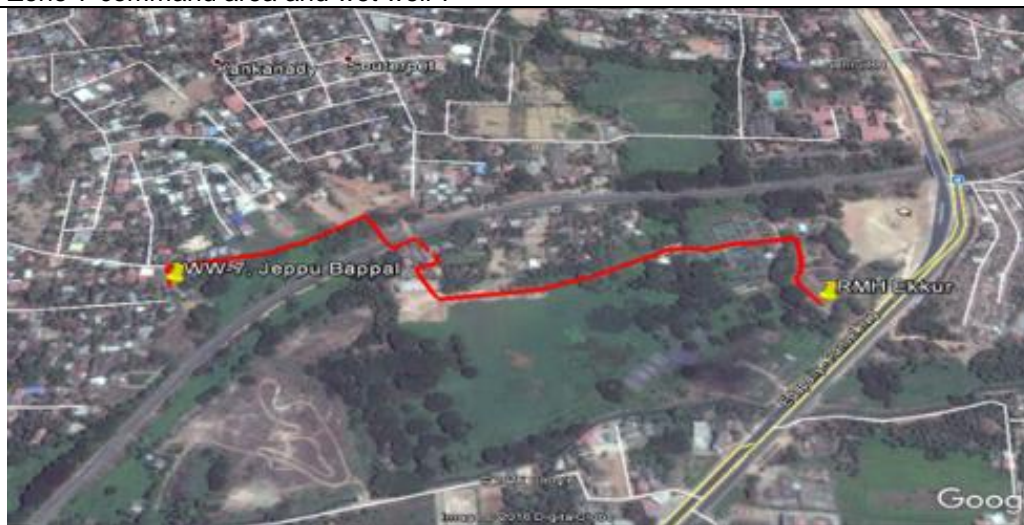
Alignment of Pumping Main from WW-3 to STP Kavoer







Zone-7 command area and wet well-7







Alignment of Pumping Main from WW-7 to Ridge Manhole shown on Google Earth
The land belongs to the Fisheries Department, Government of Karnataka. Pipelines will be laid along ROW of existing road on site

PHOTOS OF THE ALIGNMENT IN MANGALORE CITY

Photos of Pumping Main Alignment from Wet Well 3 Kudroli to Sewage Treatment Plant Kavoar

	
<p>Gokarnanatha Temple Road (GT Road), Road width 4 M Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Jamia Masjid Road , Road width 4 M Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>Jamia Masjid Raod, Road width 4 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Matadakani Road, Road width 4 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>

	
<p>Matadakani Road, Road width 4 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Matadakani Road, Road width 4 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>Matadakani Road, Road width 7 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Urva Marigudi Temple Cross Road, Road width 4 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>Urva Marigudi Temple Main Road, Road width 6 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Urva Marigudi Temple Main Road, Road width 6 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>

	
<p>Urva Marigudi Temple Main Road, Road width 6 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Urva Marigudi Temple Main Road, Road width 6 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>AshokNagara Main Road, Road width 3.8 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Kuntikan-Bajpe Road, Road width 10 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>

	
<p>Kuntikan-Bajpe Road, Road width 10 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Kuntikan-Bajpe Road, Road width 10 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>Kuntikan-Bajpe Road, Road width 10 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Kuntikan-Bajpe Road, Road width 8 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>
	
<p>Kuntikan-Bajpe Road, Road width 7 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>	<p>Kuntikan-Bajpe Road, Road width 7 m Dia of Pipe 1100 mm dia DI K9 class Pipe</p>

Kuntikan-Bajpe Road, Road width 8 m Dia of Pipe 1100 mm dia DI K9 class Pipe	Kuntikan-Bajpe Road, Road width 8 m Dia of Pipe 1100 mm dia DI K9 class Pipe
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Kuntikan-Bajpe Road, Road width 8 m Dia of Pipe 1100 mm dia DI K9 class Pipe	Kuntikan-Bajpe Road, Road width 8 m Dia of Pipe 1100 mm dia DI K9 class Pipe

Photos of Pumping Main Alignment from Wet Well 4 Kandathpalli to Wet Well 3 Kudroli

	
Old Port Road, Road width 6 M Dia of Pipe 900 mm dia DI K9 class Pipe	Old Port Road, Road width 6 M Dia of Pipe 900 mm dia DI K9 class Pipe
	
Old Port Road, Road width 6 M Dia of Pipe 900 mm dia DI K9 class Pipe	Old Port Road, Road width 6 M Dia of Pipe 900 mm dia DI K9 class Pipe
	
Old Port–Kudroli Road, Road width 4.5 M Dia of Pipe 900 mm dia DI K9 class Pipe	Old Port–Kudroli Road, Road width 4.5 M Dia of Pipe 900 mm dia DI K9 class Pipe




	
Old Port-Kudroli Road, Road width 4.5 M Dia of Pipe 900 mm dia DI K9 class Pipe	Wet Well Layout, Dia of Pipe 900 mm dia DI K9 class Pipe

Photos of Pumping Main Alignment from Wet Well 6 Mulihitlu to Ridge Manhole

	
Mulihitlu Road, Road width 4.0 M Dia of Pipe 450 mm dia DI K9 class Pipe	Mulihitlu Road, Road width 4.0 M Dia of Pipe 450 mm dia DI K9 class Pipe

	
<p>Mulihitlu Road, Road width 4.0 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Mulihitlu Road, Road width 4.0 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>Jeppu Market Road, Road width 6 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Jeppu Market Road, Road width 6 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>Morgansgate Road, Road width 8 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Morgansgate Road, Road width 8 M Dia of Pipe 450 mm dia DI K9 class Pipe</p>

Photos of Pumping Main Alignment from Wet Well 7 Jeppu Bappal to Ridge Manhole

	
<p>Wetwell-7, premises Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Nandigudda first cross road, road width 4m Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>Nandigudda first cross road, road width 4m Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>ULB land road width 5m Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>ULB land road width 5m Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Railway Crossing at Sooterpete Dia of Pipe 450 mm dia DI K9 class Pipe</p>

	
<p>Kanakarabettu road, Road width 3.5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Kanakarabettu road, Road width 3.5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>Kanakarabettu road, Road width 3.5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Kanakarabettu road, Road width 3.5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>
	
<p>Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>	<p>Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe</p>

	
Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe	Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe
	
Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe	Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe
	
Kanakarabettu road, Road width 5 m Dia of Pipe 450 mm dia DI K9 class Pipe	Ridge Manhole at Ekkur Dia of Pipe 450 mm dia DI K9 class Pipe

DETAILS OF INTERACTIONS WITH THE GENERAL PUBLIC IN MANGALORE

1. The details of consultations with the general public are as follows:

Name of the Ward: Hoigebazar, Bolar

Name of the Councillor: Mrs. Kavitha

Area: Mulihithlu

No.	Name and Address of the Person Consulted	Contact No.	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Mr. Yathish Shetty S/o Shashindra Shetty Door No 22-7-1061 Mulihithlu Mangalore-575001	7026696 920	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Amitha K Sanil S/o Karunakar Sanil Door No 22-7-987 Mulihithlu Mangalore-575001	9242855 917	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
3	Mrs. Vani W/o Madhava Shrimatha Door No 22-7-1061/5 Mulihithlu Mangalore	9986864 998	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
4	Mr. H Sheena Shetty S/o Madarappa Shetty D. N 22-7-1061/3 Mulihithlu Mangalore	9141614 488	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
5	Mrs. Umavathi W/o Shashindra Shetty D. No 22-7-989 Mulihithlu Mangalore	9591063 388	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

No.	Name and Address of the Person Consulted	Contact No.	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
			natural Nala.			
6	Mrs. Hema W/o Bhaskar Shetty D. No 22-7-1061/8 Mulihithlu Mangalore	9845869 521	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

Name of the Ward: Bolar, Emmekere, Level, Morgansgate, Mahakalipadpu

Name of the Councillor: Mrs. Rathikala

Area: Morgansgate

No.	Name and address of the person consulted	Contact No.	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Sri. Bhagavathi Co-operative Bank Morgan's gate Mangalore	7760328964	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Mr. Suresh S/o Manjanna Shreya Medicals Morgansgate Mangalore	9035423679	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
3	Mr. Vinodh Shetty S/o Sadashiva Shetty Siddi canteen Morgansgate Mangalore	7259892378	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

No.	Name and address of the person consulted	Contact No.	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
4	Mr. Devadas Shetty S/o Sheenappa Shetty Morgansgate Mangalore	9449894578	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
5	Mr. Abdulla S/o Late Y Musthaf K. Mohammed and Co. Plywood shop Morgansgate Mangalore	9980246367	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

Name of the Ward: Derebail-3 (South), Daddalkad

Name of the Councillor: Mr. Rajaneesh

Area: Derebail- Daddalakadu

No.	Name and Address of the Person Consulted	Contact No.	Present Condition of UGD System	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Mr. Dasharath S/o Late Mudara D. No 1-8-534 Derebail-Daddalakad mangalore	9901638209	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Mr. Justin D'Souza W/o Late D'Souza Philip D. No 1-9-535 Derebail Daddalkadu Mangalore	0824-2458048	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

Name of the Ward: Derebail-5 (North East)

Name of the Councilor: Radhakrishna

Area: Urva Market

No.	Name and address of the person consulted	Contact No	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Mr. Radhakrishna Councilor, Ward No 26 Derebail North East Mangalore	9845054799	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Mr. Nagesh S/o Narayan Souza Chiken Urva Market Mangalore	9972022381	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

Name of the Ward: Mannagudda

Name of the Councilor: Jayanthi Achar

Area: Mannagudda, Matadakani Junction

No.	Name and address of the person consulted	Contact No	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Mrs. Jayanthi Achar W/o Harish Achar Councilor Ward No 28 Mannagudda Mangalore	7760054523	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Mr. V. Hari Kamath	-	Over flow due to	Replacement of old	Yes	No

No.	Name and address of the person consulted	Contact No	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
	Matadakani Main Road Mangalore		insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	pumping mains with sufficient carrying capacity		

Name of the Ward: Kudroli

Name of the Councillor: Mr. Abdul Azeez

Area: Bokkapatna

No	Name and address of the person consulted	Contact No	Present condition of UGD system	What improvement is required in the present condition	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No (If Yes, provide details)
1	Mr. M Abdul Azeez Councilor Ward No 43 Kudroli Ward Mangalore	9845337500	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No
2	Mr. Dinakar S/o Doomanna Mariamma cycle shop Bokkapatna Matadakani Road Mangalore	9980185556	Over flow due to insufficient carrying capacity of pumping main, sewerage bypassed to natural Nala.	Replacement of old pumping mains with sufficient carrying capacity	Yes	No

PHOTOGRAPHS OF STAKEHOLDER INTERACTIONS IN MANGALORE

Stakeholder interactions with the Ward Councillor Mrs. Kavitha in Mulihithlu area



Public Consultation conducted along with Ward Councillor Mrs Rathikala in Morgansgate



Stakeholder Interactions with ward councillor Mr. Rajaneesh



Public consultation conducted along with Ward Councillor Mrs. Jayanthi Achar



Stakeholder Interactions conducted along with Ward Councillor Mr. Abdul Azeez



Stakeholder Interactions along with Ward Councillor Mr. Radhakrishna





ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
 ದಿನಾಂಕ - 15-2-2018
 ಸ್ಥಳ - HCC ಕಛೇರಿ
 ಸಮಯ - 10:30 ಗಂಟೆಗೆ 12:30 ಗಂಟೆಗೆ

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು

ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು
 ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಪ್ರತಿಷ್ಠಾಪಕ ನಿರ್ದೇಶಕರು

ಕ್ರ. ಸಂ.	ಹೆಸರು	ಹುದ್ದೆ	ಹೆಸರು
1	Kavitha Sani	Mayor	M.C.C.
2	Rajaram	deputy mayor	M.C.C.
3	S.A. @ 2000000000	deputy mayor	M.C.C.
4	R. S. @ 2000000000	deputy mayor	M.C.C.
5	R. S. @ 2000000000	deputy mayor	M.C.C.
6	R. S. @ 2000000000	deputy mayor	M.C.C.
7	R. S. @ 2000000000	deputy mayor	M.C.C.
8	R. S. @ 2000000000	deputy mayor	M.C.C.
9	R. S. @ 2000000000	deputy mayor	M.C.C.
10	R. S. @ 2000000000	deputy mayor	M.C.C.
11	R. S. @ 2000000000	deputy mayor	M.C.C.
12	R. S. @ 2000000000	deputy mayor	M.C.C.
13	R. S. @ 2000000000	deputy mayor	M.C.C.
14	R. S. @ 2000000000	deputy mayor	M.C.C.
15	R. S. @ 2000000000	deputy mayor	M.C.C.
16	R. S. @ 2000000000	deputy mayor	M.C.C.

15.	8588	ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರ	54
17.	Kumar Omlu	Atm. Corporator	K
18.	Dinesh P.S.	Nominated Corporator	(K)
19.	Tajanth Achar	Corporator	Tajanth
20.	Ata Dima	Corporator	A
21.	Vijay Kumar Singh	"	(V)
22.	Sudhir Shetty	Corporator	S
23.	Kanitta	Corporator	K
24.	Prabhu	Corporator	P
25.	Rupa B. Bhangra	Corporator	R
26.	GUNASHEKAR SHETTY	Corporator	G
27.	S. Bannurajan	"	S
28.	Rajendra Kumar	Corporator	R

28.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676
29.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676
30.	Patric Lobo	Patric Lobo	9845149676
31.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676
32.	Vatthakalai KCT	Vatthakalai KCT	9845149676
33.	Yogish. Soppinawaru	CITU City Secretary	Yogish
34.	Plamenia Fernandes	St. Agnes MSW (BIO Resource Centre)	P
35.	Atin Tony	St. Agnes College MSW	A
36.	Shruti Joley	St. Agnes College MSW	S
37.	Bibin Jaleel	St. Agnes College MSW	B
38.	Tom Mathew	St. Agnes College MSW	T
39.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676

40.	Mercy Aline Mariga	New Horizon Trust Managing Director	M
41.	B.A. SHETTY	Advocate 9830079157	B
42.	Roshan M. Kamath	Parachandy Karam	R
43.	A. Satish & Co. Chartered Accountants	Atm. Bannurajan	A
44.	Ganga Chatterjee B	9449076519	G
45.	Victor B. Sa	9148519951	V
46.	Dr. R. P. Nambur	9986012191	D
47.	Satish Ben. M	Flat D, Bhoja Building, Malakpet, 1st Cross road, Bhoja Building	S
48.	Chitharan Nambur	8884031151	C
49.	M. Purnima Anand Nayak	9448363368	M
50.	K. HARISH KUMAR	8277166677	K
51.	P. SHIVARAMA BHAT	9482363354	P

52.	ASHWINI ATTANANT	ASHWINI ATTANANT	988613305
53.	M. JAGDISH ANNA	M. JAGDISH ANNA	9845149676
54.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676
55.	HARINI	Uppala Ramesh Centre Programme co-ordinator	H
56.	M. Raghava	N.G.O. Oshorita	M
57.	Rajendra Kumar	Am Andu Party	R
58.	UMA S. RAO	Am Andu Party	U
59.	B. JAGDISH	FORGET DEPT. MANAGER	B
60.	SUNIL KUMAR	9544507719	S
61.	Dr. B. Subramanyam	Dr. B. Subramanyam	9845149676
62.	Ravindra H	9483492849	R

3. No.	Photo	Address	Age	Sex
62.	Suresh B.S.	9740629846		Male
63.	M. Sampath Reddy	9791813355		Male
64.	Sankar Singh Reddy	8970854816		Male
65.	Surya	9764185931		Male
66.	Vijay Lalita Y	8861650107		Female
67.	Sanjay Hemant	9845590299		Male
68.	Vinod Kumar	9448529358		Male
69.	K.B. Karanth	9449056790		Male
70.	R. S. Yashwanth	9986983063		Male
71.	Thirubalan	9449139903		Male
72.	MOHAN ANCHAN	7795857565		Male
73.	Immaculate Conception	9964141944		Female

74.	RAT VATHKAR	Executive KEE		
75.	P.B. PRADH KANHO	Chief Executive KEE		
76.	Dr. Gnanesh	Program Manager CDP		
77.	N. S. Roshan	CADP		
78.	RAMESH K. K.	Corporate		
79.	Naradh Shetty	KEE, MA		
80.	GURUDEV - M. R. M. M. M.	EE, M. C. L.		
81.	D. S. S. S.	EE		
82.	S. S. S. S.	A. B. S.		
83.	G. S. S. S.	EE		
84.	Balakrishna M. R.	Chief Executive KEE		
85.	N. Benjamin	KEE, MA		

86.	R. S. S. S.	Chief Executive KEE		
87.	R. S. S. S.	Chief Executive KEE		
88.	A. K. D. S.	Chief Executive KEE		
89.	U. S. S. S.	Chief Executive KEE		
90.	B. S. S. S.	Chief Executive KEE		
91.	K. S. S. S.	Chief Executive KEE		
92.	S. S. S. S.	Chief Executive KEE		
93.	T. S. S. S.	Chief Executive KEE		
94.	C. S. S. S.	Chief Executive KEE		
95.	M. S. S. S.	Chief Executive KEE		
96.	N. S. S. S.	Chief Executive KEE		
97.	S. S. S. S.	Chief Executive KEE		
98.	H. S. S. S.	Chief Executive KEE		

99.	S. S. S. S.	Chief Executive KEE		
100.	N. S. S. S.	Chief Executive KEE		
101.	S. S. S. S.	Chief Executive KEE		
102.	S. S. S. S.	Chief Executive KEE		
103.	S. S. S. S.	Chief Executive KEE		
104.	S. S. S. S.	Chief Executive KEE		
105.	S. S. S. S.	Chief Executive KEE		
106.	S. S. S. S.	Chief Executive KEE		
107.	S. S. S. S.	Chief Executive KEE		
108.	S. S. S. S.	Chief Executive KEE		
109.	S. S. S. S.	Chief Executive KEE		
110.	S. S. S. S.	Chief Executive KEE		

LIST OF SHOPKEEPERS/AFFECTED PERSONS TEMPORARILY AFFECTED BY PROJECT

1. A survey of affected persons was held between 6 December 2016 and 17 December 2016 along the alignment of the proposed pumping mains in Mangalore. Local councillors, representatives of affected persons and municipality staff were present during the survey and consultations with affected persons.

Mangalore Pumping Main (UGD civil works)

Date: 10 April 2017 to 12 April 2017

Area: Kandathpalli to Kudroli wet well (Wet well 4 to 3)

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ Income per Day (₹)
1	Big Boy cold drinks Ansari Road Kandathpalli Mangalore Prop: Prabhakar	9008959162	Cold drinks	Not disclosed
2	Mr. Umesh Auto Garage Kandathpalli Mangalore	9880749719	Auto Rickshaw garage	500.00
3	Kerala Road ways Pvt. Ltd Ansari Road Bundar Mangalore	9880145099	Parcel services	10000.00
4	India Logistics Packers movers tour and travels Lorry booking and commission agents Ansari Road Mangalore	9980957155 9741407155 0824- 4267155	Packers movers tour and travels Lorry booking and commission agents	Not disclosed
5	Mr. Mustaq Ahmed S/o Palliyabba Ansari Road, Bundar Mangalore	9141504171	Sand, bricks and jelly sales	Rs 1300 profit per day will become loss.
6	GGC Logistics Kasaba Bazar Ansari Road, Bundar Mangalore	9482080999	Transport office	7000
7	Padma Scooter works Kasba bazaar Lower car street Ansar Road Mangalore	9845105073	Scooter Garage	1000
8	Durga Auto works Kandathpalli Ansari Road Mangalore	9731851546	Scooter, Auto welding services	3000
9	M G Sons Auto Electrical works Kandathpalli Mangalore	9945992692	Coil rewinding, Battery charging, magnet re- charging and other	600

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ Income per Day (₹)
			electrical works	
10	Royal Engineering Lower Car street Kandathpalli Mangalore	9886503070	Welding and fabrication works	5000
11	Kaveri Gas products Lower car street Road Kandathpalli Mangalore	8746828412 9442607065	Industrial Gas provider and rental industrial equipments	Not disclosed
12	M. S Interior point Lower Car street Road Opp. Kandathpalli Mosque Mangalore	9482521149	Sofa repair works	Not disclosed
13	Aluminum fabrications Bundar, Kandathpalli cross Road Mangalore		Door partitions, showcase, kitchen cabinet, ceiling steel railings, PVC and fiber molded bathroom doors etc supplier	Not disclosed
14	Sri Sai Samarth Enterprises D. No 7-T 552/1(1) Near Kandathpalli, Opp to Mosque compound Bundar Mangalore	-	Printing press	Not disclosed
15	New Halal chicken Kandathpalli Karbala Road, mangalore	9964718771	Chicken stall	Not disclosed
16	Deen's Chicken stall Kandathpalli, Karbala Road Mangalore	9964718771	Chicken stall	Not disclosed
17	R R Agencies Noor Plaza, Near Kandathpalli, Kudroli Road Mangalore	9900376874	Edible oil seller	10000
18	JAK Chicken centre Wholesale and retail seller Kudroli Road Mangalore	9686141724 9341123441	Chicken stall	Not disclosed
19	Bharath Beedi works Pvt Ltd Kudroli Mangalore	-	Beedi industry	Not disclosed

Kudroli to Mullakadu, Kavoor Sewage Treatment Plant
(Wet well 3 to Sewage Treatment Plant)

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ income per Day (₹)
1	Vinayaka Engineering Work Jayaram Building, Alake Kudroli, Mangalore	9880011835	Fabrication and welding shop	Not disclosed
2	Sumeru Enterprises Jayaram Building G. T Road Kudroli	9845550442	Whole sale and retail paint dealer	Not disclosed

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ income per Day (₹)
3	Mr. B Ananda S/o Monaiah Mestry, Old G T Road Alake Road, Mangalore	9611168991	Auto repair shop	1500
4	Michael spray painting works, G. T Road Kudroli- Mangalore	9590143208	Auto painting	500
5	Sindhu Mudranalaya G. T Road, Kudroli Mangalore	0824- 2495726 9343347288	Printing press	Ready to close the printing press for 2 days without any compensation. Restoration work should be done immediately.
6	World cooling Jayaram building G. T Road Kudroli Mangalore	Shop closed during transect walk	Installation, service, repair of room air conditioner, deep freezer, refrigeration etc	Shop closed during transect walk
7	Sri. Brahmashree Fancy and Gift centre G. T Road, Kudroli Mangalore	Shop closed during transect walk	Fancy and gift store	Shop closed during transect walk
8	Vinayaka Enterprises Go down G. T Road Kudroli, Mangalore	Shop closed during transect walk	Godown	Shop closed during transect walk
9	Roop Sagar Ladies Tailor G. T Road Kudroli Mangalore	0824-2492232	Ladies tailor	500
10	Shreya Finance Credit Corporation ® G. T Road Mangalore	9448011373 0824- 2491544	Financial services	Not disclosed
11	Sri. Bhramari Enterprises G. T Road, Kudroli Mangalore	9886279789	Fevicol dealer	Not disclosed
12	Firewood depot G. T Road Kudroli, Mangalore	Shop closed during transect walk	Fire wood depot	Shop closed during transect walk
13	Sri. Mookambika Engineering works G. T Road Kudroli, Mangalore	9980465674	Welding works	Not disclosed
14	New Power Batteries G. T Road Kudroli, Mangalore	9845162038	Battery sales and services	Willing to adjust during civil works for 2 days without any compensation. But restoration work needs to be done immediately.
15	Padma Engineering works G. T Road	9449591751	Welding machines, concrete digger,	Willing to support the implementation

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ income per Day (₹)
	Kudroli, Mangalore		grinder and disk cutter machines on rental basis.	of subproject without any compensation. Restoration work needs to be focused.
16	Durga Auto works Old G. T Road Kudroli, Mangalore	9986680265	Auto spares sales and fitting services.	Willing to support the implementation of sub project without any compensation. Restoration work needs to be done immediately.
17	Bhuvi Enterprises G. T Road Kudroli, Mangalore	9886600608	Franchisee of coffee (Retail trader)	Willing to support the implementation of sub project without any compensation.
18	S. M Electricals G. T Road Kudroli, Mangalore	9743606664	Repair of electric pump sets	1000/-
19	R M S Bakery G. T Road Kudroli, Mangalore	8971952435	Bakery items	Not disclosed
20	Mahalakshmi Service Station G. T Road, Kudroli Mangalore	9945703727 (Subbu)	Two wheeler service station	Not disclosed
21	Rahul Digital Studio G. T Road, Kudroli Mangalore	8197476924 8904786822	Photo studio (Studio was closed during transect walk)	Shop closed during transect walk
22	Kohinoor Medical Stores G. T Road, Kudroli Mangalore	9538722866	Medical store	3000
23	Ideal General Stores G. T Road, Kudroli Mangalore	8792203349	Petty shop	6000
24	Petty shop Next to Ankur Home Appliances G. T Road, Kudroli Mangalore		Small Petty shop selling chocolates, biscuits, fruits etc	Shop closed during transect walk
25	Jagadeesh Shetty Master Tailors, Navasuma complex G. T Road, Alake Mangalore	9845093413	Tailoring shop	600
26	Sarayu Water Supply Navasuma complex Old G. T Road, Alake Mangalore	8123626738	Water supply	7000

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ income per Day (₹)
27	Sneha hair Dressers Gents beauty parlor Old G. T Road, Kudroli Mangalore	9108148044	Beauty parlor	750
28	Ankur Home Appliances Old G. T Road Kudroli, Mangalore	0824- 4276245		2700
29	A K Fancy stores Near Nadupalli Kudroli, Mangalore	-	Fancy items, bags and other small read made garments	Shop closed during transect walk
30	Bajji shop Near Nadupalli Kudroli Mangalore	-	Food items shop	Shop closed during transect walk
31	N K A Traders Near nadupalli Kudroli, Mangalore	9448253421	Grocery shop	Shop closed during transect walk
32	Sayed Shanuvaz Tailor Near Jamia Maszid Jodupalli, Kudroli Mangalore	9611203011	Tailor	600
33	Mr. Ibrahim S/o Sheik Kasim Grocery merchant Opp Jodupalli Mangalore	9900767412	Grocery items	1000
34	Rafa General Stores Sulthan Batheri Road Near Jodupalli Kudroli Mangalore	8050299463	General stores	1000
35	Mr. Sayed Hussain Grocery merchant Near Jodupalli Kudroli, Mangalore	8123153067	Grocery shop	1000
36	Milan Bakery and juice centre Sulthan Batheri Road Kudroli, Mangalore	9880936080	Bakery and juice centre	1000
37	Mr. Vivekananda S/o Sanjeeva Mendon Karbali Road, Near Jodupalli, Kudroli, Mangalore	9341377595	Firewood seller	1000
38	Suraksha Foot Wear Bokkapatna Church Road Mangalore	8971090368	Foot wear	800
39	Sri. Ganesh Darshan Opp Bokkapatna Church gate Mangalore	9731199681	Hotel	3000
40	Mr. Mohammed Asif S/o Ibrahim Gujari shop Matadakani 6 th Cross	9901981239	Waste materials collection shop	2000 He is willing to support the project by shifting his

No.	Name and Address of the Temporarily Affected Person	Contact No.	Nature of the Business of the Affected Person	Earning/ income per Day (₹)
	Mangalore			materials behind his shop and support for digging work in front of his shop.
41	Vinisha Ladies Tailor Sulthan Batheri Road Near UBMC School Mangalore	9845929782	Tailoring shop	1500
42	Firewood shop Bokkapatna Church gate Mangalore	9343562635	Firewood shop	4000

Ashok Nagar Road Urva Stores junction





SI. No	Name and address of the temporarily affected person	Contact No	Nature of the business of the affected person	Earning/ income per day(Rs)
1	J. M Video Ashok Nagar Cross Road Urva stores Mangalore	9845258601	C. D sales and mobile phone currency recharging services	500
2	Kateelashwari Stores Ashok Nagar Cross Road Urva Stores Mangalore	9379434936	Grocery shop	Shop owner was not there during transect walk






Area: Mulihithlu





SI. No	Name and address of the temporarily affected person	Contact No	Nature of the business of the affected person	Earning/ income per day (₹)
1	Mangala ice factory Opp. Wet well Mulihithlu, Bolar Mangalore	9448239795	Ice factory	12000
2	Harsha General Stores Tilery Road Mulihithlu, Mangalore	9740937924	General Stores	Not disclosed
3	Expo Tailors Mulihithlu, Mangalore	9481017292	Tailoring shop	2000
4	Lee Electronics Tilery Road Mangalore	9886074099	Electrical stabilizer repair work	500
5	She beauty parlor Mulihithlu, Mangalore	9844039653	Beauty parlour	1000



SAMPLE SOCIOECONOMIC SURVEY OF AFFECTED PERSONS

Between 18 January 2018 and 22 January 2018, 20% of the affected person's (15 – 20% out of the 68 potentially affected vendors and shopkeepers) were interviewed to ascertain their socioeconomic status and the potential loss of income to them through the project. These vendors and shopkeepers are primarily located along Urva Store Ashok Nagara Junction, Matadakani Junction, Bokkapatna Junction, Kandapalli, Old Port Road and Jeppu Junction. Photographs of affected persons covered in the sample socio-economic survey are presented below. Socioeconomic information gathered from the survey is presented in the resettlement plan.

	Name and Address	Photograph of Affected Person
1.	Mr.Dhanjaya, Durga Auto Works, D.No.9-19-7/2, Kandathpalli, Ansari Road, Mangalore.	
2.	Mr.Lohithaksha, M.G. Sons Auto Electrical Works, D.No.9-19-7/2, Kandathpalli, Ansari Road, Mangalore.	
3.	Mr. Sayyed Mubashir, Royal Engineering, Lower car street, Kandathpalli, Mangalore.	
4	Mr. Nagesh, Padma Scooter Works, Kasba Bazaar, Lower car street, Ansar Road, Mangalore.	

	Name and Address	Photograph of Affected Person
5	Mr.Umesh, Auto Garage, Kandathpalli, Mangalore	
6	Mr.Gangadhar, Michael Spray Painting Works, G.T. Road, Kudroli, Mangalore.	
7	Mr. K.Naveen Chandra Shetty, Sumeru Enterprises, Jayaram Building, G.T. Road, Kudroli, Mangalore.	
8	Mr. Mohandas, Vinayaka Engineering Works, Jayaram Building, Alake Kudroli, Mangalore.	
9	Mr.Rajesh, Sri. Mookambika Engineering Works, G.T. Road, Kudroli, Mangalore.	

	Name and Address	Photograph of Affected Person
10	Mr.Jeevan, Bhuvi Enterprises, G.T. Road, Kudroli, Mangalore.	 A photograph of a man with dark hair, wearing a light yellow button-down shirt and dark trousers, sitting at a desk. A laptop and a keyboard are visible on the desk. The background is an orange wall. A timestamp '22-01-2018 12:09' is visible at the bottom right of the photo.
11	Mr.Mohammed Nabeel, Kohinoor Medical Stores, G.T. Road, Kudroli, Mangalore.	 A photograph of a man with glasses and a beard, wearing a bright pink shirt, standing behind a counter in a medical store. Shelves with various medical supplies are visible in the background. A timestamp '22-01-2018 12:10' is visible at the bottom right of the photo.
12	Mr. Musthaq, Ideal General Stores G.T. Road, Kudroli, Mangalore.	 A photograph of a man with glasses, wearing a dark blue polo shirt and grey trousers, standing in a general store. Shelves with various products are visible in the background. A timestamp '22-01-2018 12:10' is visible at the bottom right of the photo.
13	Mr.Abdulla, Ankur Home appliance, Old G.T. Road, Kudroli, Mangalore.	 A photograph of a man with glasses, wearing a black and white checkered shirt and khaki trousers, standing in a home appliance store. Shelves with various home appliances are visible in the background. A timestamp '22-01-2018 12:42' is visible at the bottom right of the photo.

	Name and Address	Photograph of Affected Person
14	Mr.Abdul Haneef A.K.Fancy Stores, Near Nadupalli, Kudroli, Mangalore.	
15	Mr. N.K. Aboobakkar, N.K.A Traders, Near Nadupalli, Kudroli, Mangalore.	

INVOLUNTARY RESETTLEMENT IMPACT CATEGORIZATION CHECKLIST

Probable Involuntary Resettlement Effects	Yes	No	Not Known	Remarks
Involuntary Acquisition of Land				
1. Will there be land acquisition?				No
2. Is the site for land acquisition known?				
3. Is the ownership status and current usage of land to be acquired known?				
4. Will easement be utilized within an existing Right of Way (ROW)?		No		
5. Will there be loss of shelter and residential land due to land acquisition?		No		
6. Will there be loss of agricultural and other productive assets due to land acquisition?		No		
7. Will there be losses of crops, trees, and fixed assets due to land acquisition?		No		
8. Will there be loss of businesses or enterprises due to land acquisition?		No		
9. Will there be loss of income sources and means of livelihoods due to land acquisition?		No		
Involuntary restrictions on land use or on access to legally designated parks and protected areas				
10. Will people lose access to natural resources, communal facilities and services?		No		
11. If land use is changed, will it have an adverse impact on social and economic activities?		No		
12. Will access to land and resources owned communally or by the state be restricted?		No		
Information on Displaced Persons:				
Any estimate of the likely number of persons that will be displaced by the Project? : [68 shopkeepers will face temporary loss of livelihood- 20% surveyed]				
Are any of them poor, female-heads of households, or vulnerable to poverty risks? [Of the 20% AP's surveyed none were; however, the complete survey may indicate otherwise]				
Are any displaced persons from indigenous or ethnic minority groups? [Of the 20% AP's none were; however the complete survey may indicate otherwise]				

OFFICE MEMORANDUM REGARDING ESTABLISHMENT OF GRIEVANCE REDRESS MECHANISM

ಕರ್ನಾಟಕ ನಗರ ಮೂಲಸೌಕರ್ಯ ಅಭಿವೃದ್ಧಿ
ಮತ್ತು ಹಣಕಾಸು ನಿಗಮ ನಿಯಮಿತ
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಉದ್ಯಮ)



Karnataka Urban Infrastructure
Development and Finance Corporation Ltd.,
(Government of Karnataka Undertaking)

KUIDFC/KIUWMIP/DLIC/2014-15/228

Date: 28th June 2017

OFFICIAL MEMORANDUM

Sub: ADB Assisted KIUWMIP-Jalasiri Implementation of Resettlement and Rehabilitation Plans (RRP).

Under Karnataka Integrated Urban Water Management Investment Programme (KIUWMIP) land will be purchased/acquired for implementation of various components. A Resettlement and Rehabilitation Plan for Affected Families (AFs) and Programme Affected Persons (PAPs) is prepared for land being acquired and the compensation payable to them is determined as per the guide lines of LARR Act 2013.

A project specific Grievance Redressal Mechanism (GRM) is to be established to receive complaints, evaluate concerns and address grievances of the Affected Persons (APs). To provide time bound and transparent mechanism to resolve social and environmental concerns and ensure proper implementation and monitoring of the grievances, there is a need to designate Rehabilitation and Resettlement Officer and to constitute a Grievance Redressal Committee. Hence the following order:

ORDER

Rehabilitation and Resettlement Officer: The Special Land Acquisition Officer/the Assistant Commissioner of the concerned sub division shall be the "Rehabilitation and Resettlement Officer". He will be responsible for implementation of the Resettlement plans. He is authorised to release all compensation to the beneficiaries (based on land acquisition Awards and other assistance/ benefits decided by GRC based on approved Resettlement plans).

Grievance Redressal Committee: The committee shall consist of the following members:

The Special Land Acquisition Officer/Assistant Commissioner of the concerned subdivision	Chairman
The Commissioner / Chief Officer of concerned ULB	Member
Deputy Project Director KIUWMIP Mangalore	Member Secretary & Convener
PMDSC Engineer	Member
Affected community member/NGO	Member
SDO of RPMU- KIUWMIP Mangalore	member

DESPATCHED
ON 28/6/17

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KUIDFC

ANNEXURE

Guidelines for implementation of resettlement and rehabilitation Plan.

- A project specific redressal mechanism will be established to receive, evaluate and facilitate concerns, complaints and grievances of the Displaced Persons (DPs) in relation to project's social and environmental performances. The main objective of the Grievance Redressal Mechanism (GRM) will be to provide time bound action and a transparent mechanism to resolve social and environmental concerns.
- The Deputy Project Director KIUWMIP Mangaluru will convene the periodic meeting of the Grievance Redressal Committee (GRC) and will shoulder the responsibility of keeping records of grievances/complaints in details with help from SDO/Resettlement NGO as and when placed. Other members such as community based organizations (CBO) representatives, ward council representatives, displaced persons representative will be selected by the respective Commissioners of the ULB to represent in the GRC. NGO will also deploy one person who will be responsible for coordinating with all GRC members and DPs for grievance redressal.
- Grievance redressal committee (GRC) should ensure that the list of affected persons mentioned in the resettlement plan tally with the list of persons mentioned in the award passed by the Assistant Commissioner (AC)/ Special land acquisition officer (SLAO).
- The committee should finalize the subsistence allowance and other assistance/benefits payable to the affected persons based on the approved resettlement plans and ensure delivery of project affected persons (PAP) entitlements and benefits.
- All payments made to the beneficiaries and other expenses for implementation of the Resettlement plan should be through "Account Payee" cheques only. Proper documentation and acknowledgement for receipt be maintained to facilitate Audit.
- Grievance if any may be submitted by project affected persons (PAP) to the Chairman of the GRC.
- The Grievance Redressal Committee will redress the issues at the local level in a consultative manner.
- The date and time of the GRC meeting should be communicated to the PAPs by the implementing NGO or Regional Program management Unit (RPMU) Mangaluru office, a week in advance.
- Proceedings of the GRC meeting should be documented and copy should be sent to Task Manager KIUWMIP-KUIDFC Bengaluru.
- The GRC will determine the merit of each grievance and attempt to resolve the same within 15 days from date of lodging the complaint, failing which the grievance shall be addressed to the Deputy Commissioner.
- The Deputy Commissioner shall hear the appeals against the decision of the GRC. The decision of the Deputy Commissioner is final and cannot be contested in any other forum except in court of Law.
- All costs incurred in resolving the complaints will be borne by the concerned urban local Body.

SAMPLE GRIEVANCE REGISTRATION FORM

(To be available in Kannada & English)

The _____ Project welcomes complaints, suggestions, queries, and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name.

Thank you.

Date			Place of Registration			
Contact Information/Personal Details						
Name			Gender	* Male	Age	
				* Female		
Home						
Address						
Village/Town						
District						
Phone no.						
E-mail						

Complaint/Suggestion/Comment/Question – Please provide the details (who, what, where, and how) of your grievance below:

If included as attachment/note/letter, please tick here:

How do you want us to reach you for feedback or update on your comment/grievance?

FOR OFFICIAL USE ONLY

Registered by: (Name of Official Registering Grievance)

Mode of Communication:

Note/Letter
E-mail
Verbal/Telephonic

Reviewed _____ by: (Names/Positions of Officials Reviewing Grievance)

Action Taken: _____

Whether Action Taken Disclosed: _____

Means of Disclosure: _____