

Resettlement Plan

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IND: Karnataka Integrated Urban Water Management
Investment Program (Tranche 2) – 24x7 Water
Supply Distribution Network for Udupi City

Package No: 02UPD01

CURRENCY EQUIVALENTS

(As of March 2020)

Currency Unit	=	Indian Rupee (₹)
₹1.00	=	\$0.014
\$1.00	=	₹72

ABBREVIATIONS

ADB	—	Asian Development Bank
AMRUT	—	Atal Mission for Rejuvenation and Urban Transformation
BPL	—	below poverty line
CAPRRRC	—	community awareness, participation, rehabilitation and resettlement consultant
CDP	—	comprehensive development plan
CLIP	—	city level investment plan
CMC	—	city municipal council
DC	—	Deputy Commissioner
DLRC	—	district level resettlement committee
DPR	—	detailed project report
ELSR	—	elevated level storage reservoir
GLSR	—	ground level storage reservoir
GoK	—	Government of Karnataka
GRC	—	grievance redressal committee
HSC	—	House Service Connections
IWRM	—	integrated water resource management
KUIDFC	—	Karnataka Urban Infrastructure Development and Finance Corporation
KUWSDB	—	Karnataka Urban Water Supply and Drainage Board
KUIWMIP	—	Karnataka Integrated Urban Water Management Investment Program
LA and R&R	—	land acquisition and resettlement and rehabilitation
MFF	—	multitranchise financing facility
NGO	—	nongovernment organization
OBC	—	other backward castes
PIU	—	project implementation unit
PMDSC	—	project management 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

WEIGHTS AND MEASURES

ha	—	hectare
kL	—	kiloliter
km	—	kilometer
lpcd	—	liters per capita per day
mld	—	million liters per day
m	—	meter
m ²	—	square meter

NOTE

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

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EXECUTIVE SUMMARY

1. 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 Dec 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). Assistance under the second phase of KUIWMIP will be used to expand and upgrade water supply and sanitation infrastructure in the four coastal towns of, Mangalore, Udupi, Kundapura and Puttur. The project also involves improving water resource planning, monitoring, and service delivery.

2. Udupi is a city in the southwest Indian state of Karnataka. It is the headquarters of Udupi District. The municipality spreads across an area of 69.28 square kilometer (km²) and is divided into 35 wards. The municipal area comprises the surrounding areas of Manipal, Parkala, Malpe, Udyavara and Santhekatte. Currently, water supply is from Swarna River tapped under a scheme implemented in 1971. Under the later Karnataka Urban Development and Coastal Environmental Management Project (KUDCEMP), water supply was improved in 2005-2006 with the Swarna River again as its source. Current treatment facilities comprise a capacity of 27.24 million liters per day (MLD). However, the infrastructure coverage for water supply is not comprehensive. To optimally utilize the assets created under KUDCEMP, the ADB assisted KIUWMIP seeks to improve the urban water supply and sanitation in Udupi. The Udupi City 24x7 water supply distribution network subproject is proposed in Tranche -2 of the KIUWMIP.

3. It is proposed to draw water from the Varahi River at Bharatkal (near Halady, Kundapura) to meet the water demand of Udupi residents. An existing abandoned lift irrigation scheme is proposed to be revitalized. Bulk (improvement) water supply components (associated facility) such as intake well, jack well cum pump house, raw water transmission main, water treatment plant and clear water transmission main are proposed in Package-2 detailed project report (DPR) of Bulk Improvements under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) project of the Government of India.

4. The KIUWMIP 24 x 7 Water supply project for Udupi town proposes the upgradation of existing distribution lines, the replacement of existing transmission lines and the replacement of old and faulty meters in house service connections (HSC). The rehabilitation and replacement of the old water treatment plant (WTP) to augment water supply is being proposed under State funding (associated facility). The KIUWMIP subprojects to improve the 24 x 7 water supply distribution network include: (i) clear water feeder mains of ductile iron and mild steel pipes of dia 150 millimeter (mm) to 355.60 mm for a length of 7.47 kilometer (km) to feed clear water to new overhead tanks (OHTs); (ii) construction of seven overhead tanks OHTs of total storage capacity 5.2 milliliters (ml); (iii) construction of 358.17 km distribution pipe lines; and (iv) the replacement of 16,870 non-functioning water meters (for existing connections) and providing 15,000 new water supply connections to un-covered households.

5. Resettlement Plan. This updated resettlement plan identifies potential involuntary resettlement impacts based on the Detailed Project Report (DPR). It is prepared 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. This resettlement plan has been updated based on the final detailed design prepared by the design build operate (DBO) contractor and detailed measurement surveys (DMS) prior to start of construction, and ADB's approval.

6. **Scope of Land Acquisition and Resettlement for Bulk water supply and Distribution network.** A total of three hawkers and vendors who are likely to face temporary income loss during pipe laying activities were identified during a transect walk on 9 August 2017. They are located along Poornaprajna Road. In case any of the assessed impacts are possible to avoid during civil works, no compensation needs to be paid. Any such avoided impacts will be carefully documented with photographic evidence during construction and consultations with persons assessed as affected in this RP, to confirm impact avoidance. Details of any impact avoidance will be presented in the next SSMR.

7. **Associated Facilities.** Any involuntary resettlement impacts arising from the associated facilities, i.e., pipelines, intake or any other components being laid/constructed with government funds, which will be part of the same water supply project, will be identified and the details shared with ADB. Government of Karnataka will ensure that such impacts are compensated/mitigated prior to displacement or start of construction work on those components. Field visits to associated facilities sites (along the AMRUT pipeline alignment and the old WTP and intake well) indicate that there are no involuntary resettlement impacts expected.

8. **Categorisation.** This subproject is classified as Category 'B' in accordance with ADB's SPS, 2009.

9. **Consultation and Disclosure.** Over 25 public consultations have been held in Udupi since 2018. Of these, two were town level and four were held in en route villages. Over 1085 stakeholders attended these consultations. Of these, 231 (21%) were women. Details of most of these consultations are presented in the past Social Safeguard Monitoring Reports (SSMRs). More ward level consultations and discussions are planned through the implementation of the project. Discussions were also held with the community along the associated facility sites and alignments in October 2017.

10. **Grievance Redress Mechanism (GRM).** GRM is established in Udupi to receive, evaluate and facilitate concerns of, complaints and grievances of the affected persons. The main objective of the GRM is to provide time bound action and transparent mechanisms to resolve social and environment-related concerns.

11. **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 total resettlement budget for this resettlement plan is \$8,500.

12. **Monitoring and Reporting:** The Social Development Officer (SDO) at the project management unit (PMU) Head Office will confirm the resettlement plan and when required the regional project management unit (RPMU) will be responsible for regular monitoring. The monitoring report will contain safeguards policy compliance information along with progress on subproject implementation. The reports will be submitted to ADB half yearly in the social safeguard monitoring report (SSMR).

I. PROJECT BACKGROUND

A. Introduction

1. ADB is assisting the Indian state of Karnataka improve water resources management in selected urban areas. 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 1 of the Karnataka Integrated Urban Water Management Investment Program (KIUWMIP) was initiated by the Asian Development Bank (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 currently is being processed and will comprise of four water supply subprojects (Mangalore, Udupi Kundapura and Puttur,) and one sewerage subproject (Mangalore). This updated resettlement plan report is prepared for the water supply subproject in the town of Udupi. It is based on the detailed project report (DPR). The updated 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 (RF).

B. Scope of this Report

3. The Udupi City 24 x 7 water supply distribution network subproject is proposed in Tranche -2 of KIUWMIP. Currently, water supply is from Swarna River implemented under a scheme in 1971. Under the Karnataka Urban Development and Coastal Environmental Management Project (KUDCEMP) water supply was improved in 2005-2006 with the Swarna River as its source. Under KUDCEMP, the water supply distribution network was designed for a population of 2, 90,278 people for 2026. The treatment facilities were designed for a capacity of 27.24 million liters per day (MLD). However, the infrastructure coverage developed under KUDCEMP is not comprehensive due to the paucity of funds. To optimally utilize the assets created under KUDCEMP, the ADB assisted KIUWMIP seeks to improve the urban water supply and sanitation system in Udupi.

4. The water supply project in Udupi town proposes the upgradation of existing distribution lines, the replacement of existing transmission lines and the replacement of old and faulty House Service Connection (HSC) meters. The rehabilitation and replacement of the old WTP to augment water supply being proposed under State funding (an associated facility). The subproject to improve the 24 x 7 Water Supply Distribution Network includes: (i) clear water feeder mains of ductile iron (DI) and mild steel (MS) pipes of dia ranging from 150 millimeters (mm) to 355.60 mm for a length of 7.47 kilometers (km) to feed clear water to new OHTs; (ii) Construction of 7 OHTs of total storage capacity 5.2 milliliters (ML); (iii) construction of 358.16 km distribution pipe lines;

and (iv) replacement of 18,423 non-functioning water meters for existing connections and providing 15,000 new water supply connections to un-covered households.

5. The proposed subproject for 24 x 7 water supply distribution system for Udupi under Project 2 of KIUWMIP is classified as “Category B” for involuntary resettlement impact as per ADB’s SPS, 2009.

6. This updated resettlement plan is prepared based on the detailed project report based on the final detailed design and DMS/census surveys for the subproject components, ADB’s SPS, 2009, and the provisions of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act (RFCTLARR), Government of India, 2013. This report describes the findings and provides copies of available land-related documents, public consultations and photographs.

7. Upon project implementation, the social safeguards personnel at PMU will be required to undertake a review of this resettlement plan, prepare a confirmation letter or report documenting any modifications for the subproject and submit to ADB; and receive a ‘no objection’ confirmation from ADB prior to start of construction in the subproject

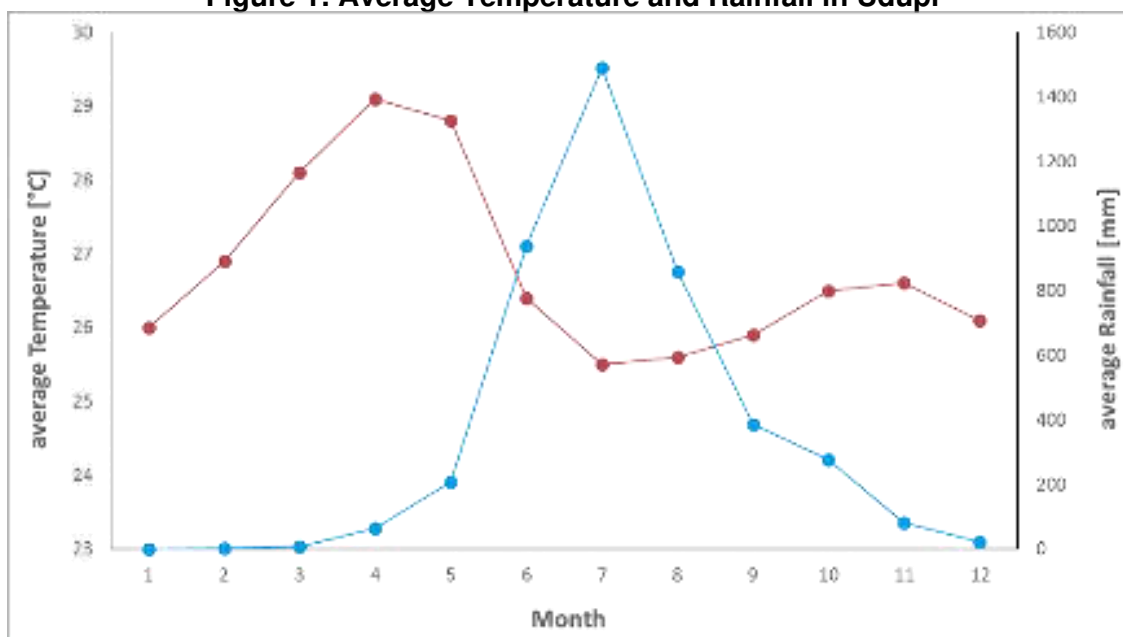
C. Geographic/ Climate and Demographic Information of Udupi

8. **Location.** Udupi is a city in the southwest Indian State of Karnataka. It is the headquarters of Udupi District. It is situated about 58 km north of Mangalore and about 422 km northwest of Bangalore. Geographically, Udupi district is separated from the rest of the South Indian Peninsula by the Western Ghats. It spreads from the Western Ghats towards the sea to the west. Udupi municipality covers an area of 69.28 km² and is divided into 35 wards. The municipal area comprises the surrounding areas such as Manipal, Parkala, Malpe, Udyavara and Santhekatte. Udupi is notable for the Krishna Temple, a center of pilgrimage.

9. **Accessibility.** Udupi is well connected. National Highway NH 66 passes through Udupi connecting it to Mangalore and Karwar via Kundapur. Other significant roads include State Highways to Karkala and Dharmastala and to Sringeri. Udupi is connected by the Konkan Railway to Bangalore, Mumbai, and New Delhi. The nearest International Airport is the Mangalore International Airport, 50 km away. The nearest harbour/ports are at Malpe, 5 km away, and Gangolli (Byndoor), 36 km away. The New Mangalore Port is 50 km away from Udupi.

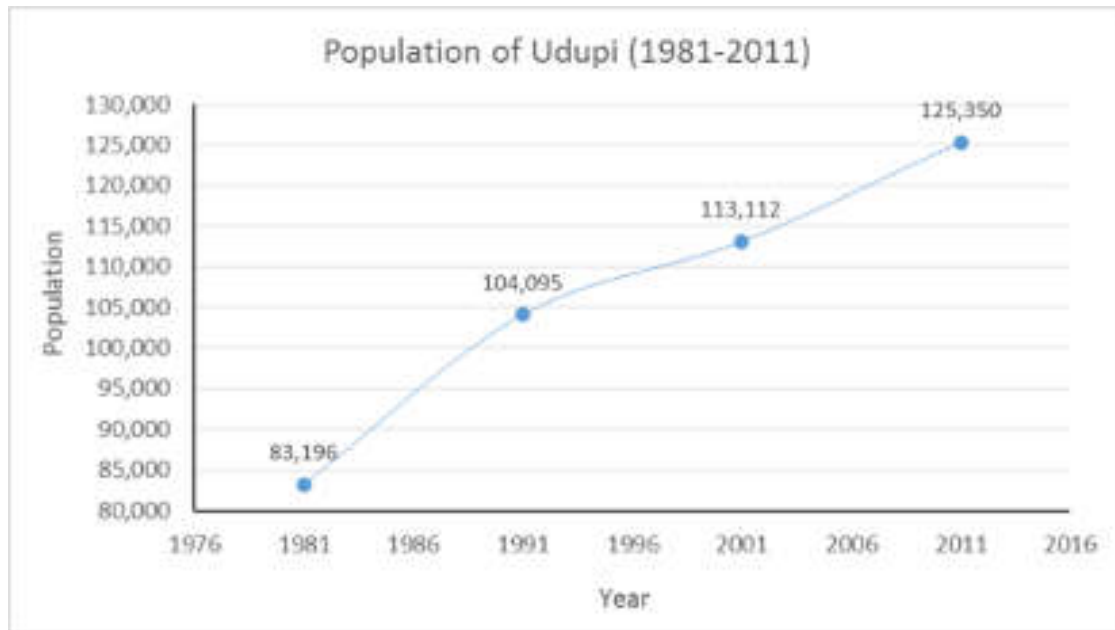
10. **Climate.** Udupi has a tropical monsoon climate and is affected by the southwest monsoon. It receives about 95% of its total annual rainfall within a period of 6 months from May to October. Rainfall averages 4,000 mm every year.

Figure 1: Average Temperature and Rainfall in Udupi



11. **Demographic information:** The population of Udupi Municipal Corporation according to the Census 2011 is 125,350. Over the last few decades, the population has grown steadily and in recent years, has stabilized at 1.07%. The estimated population of Udupi city currently is 133,485. The population of surrounding four en-route villages is 31,064, the five outgrowth villages is 16,354 and the seven adjacent villages is 45,238. The floating population of the city is approximately is 12,000.

Figure 2: Population Growth in Udupi (1981-2011)



II. PROJECT DESCRIPTION

A. Current Infrastructure

12. The first surface water supply scheme for Udupi was introduced in 1971 with the river Swarna as the source of water. The scheme was designed for a capacity of 9.00 MLD. A RCC jack well (dia 5.50 m and depth 10.75 m) was constructed on the River Swarna under the 1971 scheme.

13. Due to the negligible flow of water in the River Swarna during the summer, the amount of water available is not adequate for supply to Udupi and enroute villages for approximately 101 days during February to May. A second water supply scheme was developed in 2006 under the KUDCEMP to cater to 2026 demand. A RCC jack well with a diameter of 10.0 m and a depth of 16.05 m was constructed. The scheme was designed for a capacity of 27.24 MLD.

14. Additionally, there is a barrage at Baje village (near Hiriyadaka) located 15 kms from Udupi that has a storage capacity of 1.22 cubic millimeter (mm^3) and a water spread of about 5 km on upstream side. Raw water transmission mains built in 1971 convey water from the jack well directly to a break pressure tank located at Hiriyadka with the help of two vertical turbine pumps (incl. 100% standby) of 150 HP, capable of pumping 116 LPS against a head of 67 m, through a 450 mm dia CI rising main of length 2,400 m.

15. Under the KUDCEMP project, raw water transmission mains from the newly constructed jack well to the new 27.24 MLD WTP were laid (20 hours pumping time). The raw water transmission main is a MS pipe with a diameter of 700 mm for a length of 160 m. Although no flow meters were installed to measure the conveyed and actual consumed water visual inspections confirm that the transmission main is in good condition. However, the raw water transmission mains are insufficient to meet the demand in 2046.

16. **Water Treatment Plant (WTP).** The conventional WTP built in 1971 was designed to treat 9.0 MLD water at Manipal. This WTP is in good condition and is working satisfactorily. Another

WTP built under KUDCEMP at Baje village uses the conventional water treatment method with clariflocculator and treats 27.24 MLD water. This WTP is also working satisfactorily.

17. A vented dam (constructed under KUDCEMP in 2005-2007) with a storage capacity of 0.734 cubic meter (m^3) is located 7.1 km upstream of the weir at Baje. The water spread length of the reservoir is about 5 km going up to Manai village upstream of the dam. The total length of the dam is 111 m, of which the effective overflow length of dam is 82.2 m and remaining length of the dam has four scouring sluices. An augmentation scheme under KUDCEMP constructed a vented dam near Sirur Matt village across River Swarna, 7.1 km upstream of Baje.

18. **Clear Water Pumping Mains.** The clear water pumping station transports the treated water from the WTP to the service reservoirs. The first pumping station was implemented in 1971 on the premises of the WTP and consists of a horizontal split case pump set with two motors (100 kilowatt [kW]; one working and one standby) pumping 108 liters per second (lps) with a total head of 67m. In 2006 during KUDCEMP, another pumping station was constructed on the premises of the 27.24 MLD WTP. It consists of a horizontal split case pump set with two motors (425 kW; one working and one standby) pumping 1042 cum / hr with a total head of 102 m. Inspections indicate that the pumps are in good condition. Brief assessment has been made regarding actual discharge from the pumping stations and it has been found that the installed pumps are designed up to 2016. The replacement in 2016 will be designed for 2031.

19. **Clear Water Transmission Mains.** The first Clear Water Transmission Mains (CWTM) was built in 1971. The clear water was pumped from the clear water sump at the water treatment plant to a 3.0 LL ground level surface reservoir (GLSR) at Manipal through a CI rising main with a diameter of 450 mm for 600 m and through a pipe with diameter of 200 mm CI for 60 m. This pipe line needs to be replaced. The second CWTM was built under KUDCEMP during 2006. The clear water transmission main has a diameter of 762 mm OD mild steel pipe was laid from 27.24 MLD WTP to Master GLSR for a length of 11,747 m. The capacity is not sufficient to meet the demand in 2046.

Figure 3: Current Water Infrastructure- Udupi and Enroute villages



Swarna River



Vented Dam at Baje



Barrage at Baje, Udupi



Jackwell (1971 scheme)

Jackwell constructed under KUDCEMP



Vented Dam at Sirur Mutt



Clear Water Pump House	Filter House
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20. **Existing Service Reservoirs.** Udupi is divided into 10 water supply zones. The existing service reservoirs in the service area of Udupi are identified below.

Figure 4: Current Water Infrastructure- 10 Water Supply Zones in Udupi**Table 1: Existing Service Reservoirs in Udupi**

SL. No	Location	Capacity (LL)	Staging Height (m)	Type of Service Reservoirs	Zone Nos	Area Served
1	Parkala (New)	10	15	ESR	1	Shettybettu, Parkala
2	Manipal MBR (new)	50 (25X2)		Twin GLSR	2	Manipal, Manchi, Saralabettu, Eshwaranagar
3	Manipal	10	15	ESR	2	
4	V.P. Nagar	5	12.5	ESR	4 & 5	Manoligujji, Mooduperampalli, Moodasagri
5	Indira Nagar New	5	15	ESR	6	Kunjibettu, Volakad, Bailur, Kinnimulki, Chitpady, Indiranagar
6	AjjaraKad	9	15	ESR	7A	Ambalpady, Bannanje, Shiribeedu, Ajjarkad, Kannarpadi, Thenkapete
7	S.P office	10	15	ESR	7B	
8	HUDCO colony new	5	12.5	ESR	8	Gundibail, Kadiyali, Paduperampalli, Kodankoor
9	Puttur Sub Office	5	15	ESR	9	Puttur, Gopalapura, Subrahmanyannagar, Mudabettu
10	Kodavoor	5	7.5	ESR	10	Kola, Malpe Central and Vadabandeshwara
11	Kalmadi	2.5		GLSR	10	



OHT at Parkala



25 LL Twin GLSR at Manipal



2.5 LL GLSR at Kalmadi



9 LL OHT at Ajjarkadu



10 LL OHT at S.P. Office



5 LL OHT at Indiranagara



10 LL OHT at Manipal



5 LL OHT at Kodavoor



5 LL OHT at Puttur Sub
Office



OHT at V P Nagara



OHT at Hudco Colony

B. Projected Water Demand

21. Water demand is calculated for a projected population in 2031 and 2046 (see table below). The domestic water demand is assumed at a rate of 135 lpcd excluding losses. The following table is based on the draft DPR prepared for the Udupi Water Supply Distribution KUIWMIP project in October 2017.

Table 2: Projected Water Demand in Udupi

City /Village	2016		2031		2046	
	Population	Water Demand in MLD	Population	Water Demand in MLD	Population	Water Demand in MLD
Udupi MC	133,485.00	18.02	161,195.00	21.76	194,657.00	26.28
Outgrowths						
Ambalpady	2,245	0.30	3,095	0.42	4,358	0.59
Kidiyoor	4,807	0.65	5,749	0.78	7,345	0.99
Kuthupady	3,587	0.48	4,081	0.55	4,623	0.62
Kadekar	4,951	0.67	6,048	0.82	7,750	1.05
Mudanidambur	763	0.10	1,362	0.18	2,360	0.32
Adjacent Village						
Badanidiyoor	4,248	0.30	5,022	0.35	5,937	0.42
Thenkanidiyoor	6,854	0.48	9,316	0.65	12,662	0.89
KelarkalaBettu	4,725	0.33	6,956	0.49	10,239	0.72
Udyavara	11,995	0.84	12,430	0.87	12,880	0.90
Koragnrapady	5,306	0.37	6,561	0.46	8,113	0.57
Alevoor	7,001	0.49	9,596	0.67	13,155	0.92
Manipura	5,107	0.36	5,440	0.38	5,795	0.41
Enroute Villages						
Hirebettu	2,671	0.19	2,833	0.20	3,004	0.21
Hiriyadka	9,693	0.68	12,282	0.86	15,564	1.09
Kodibettu	4,379	0.31	4,061	0.28	3,766	0.26
80 Badagubettu	11,213	0.78	19,599	1.37	34,256	2.40

City /Village	2016		2031		2046	
	Population	Water Demand in MLD	Population	Water Demand in MLD	Population	Water Demand in MLD
Athrady	3,109	0.22	3,980	0.28	5,095	0.36
Industrial demand (MLD)		0.50		0.58		0.65
Floating Population	20,000	0.90	22,000	0.99	24,200	1.09
MAHE water demand		5.61		6.45		7.29
Fire Demand (100x√P Kiloliters, where P is populations in thousands in MLD (Udupi CMC)	133,485.00	1.16	161,195.00	1.27	194,657.00	1.40
Total Water Demand in MLD		33.73		40.66		49.41
Unaccounted water@15% in MLD		5.06		6.10		7.41
Total Bulk water Demand in MLD		38.80		46.76		56.82
Existing WTP Capacity at Baje in MLD		27.24		27.24		27.24
Additional Bulk water Demand in MLD		11.56		19.52		29.58
Say		12.00		20.00		30.00

MC = Municipal Corporation, MLD = million liters per day, WTP = water treatment plant.

Source: DPR for Udupi Water Supply

22. Total Water Demand for 2016 for the greater Udupi (including outgrowths, adjacent and enroute villages) region is 38.80 MLD, 46.76 MLD for 2031, and 56.82 MLD for 2046. The current infrastructure is insufficient to meet water demand.

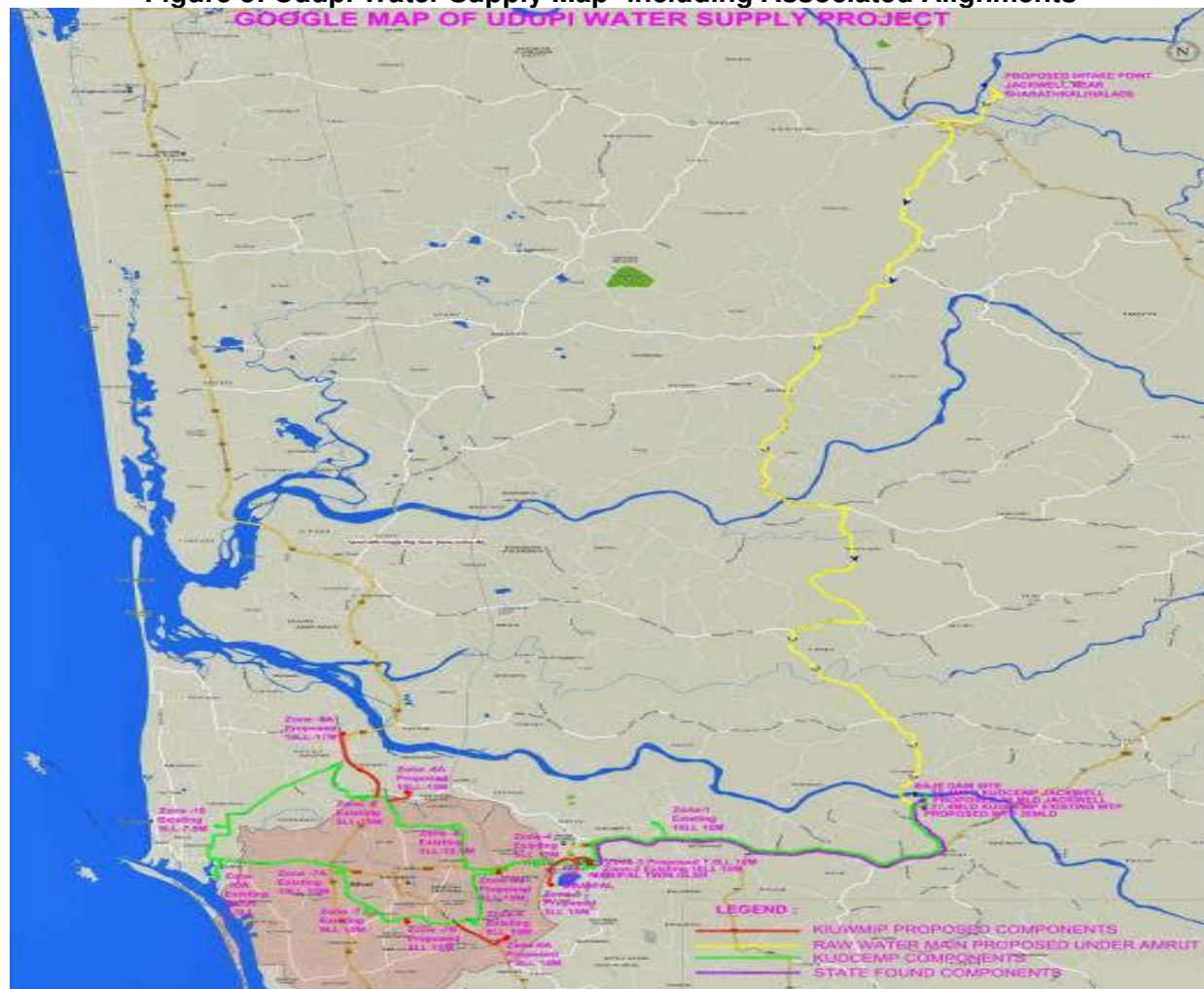
23. As per the DPR, the total beneficiary population of the KIUWMIP Udupi Water Supply project in the Udupi CMC is 140,000. The 24x7 Water Supply project will provide for water connections to the outgrowth, adjacent and enroute villages too.

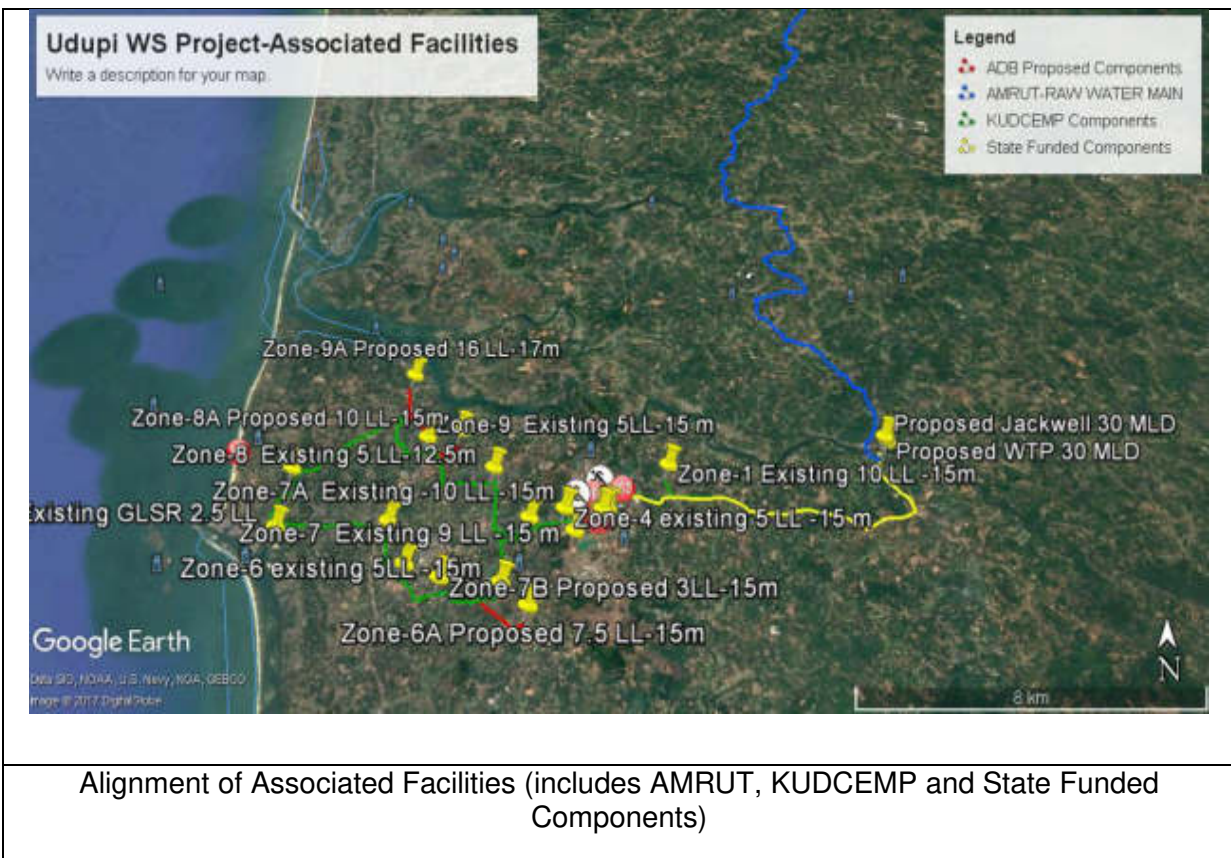
24. Due to the infeasibility of a vented dam on the Swarna River, it has been proposed to draw water from the Varahi River at Bharatkal (near Halady, Kundapur- see picture below). This project (AMRUT funded- see alignment below) is funded by the Government of India and is an associated facility. Under this associated project, it is proposed to pump raw water for four months (120 days) during the summer from river Varahi and construct a M-30 RCC intake well (of 4 m diameter and 6.2 m depth) near the river bank. For the withdrawal of water to the jack well, two 1200 mm dia. RCC NP-4 Raw water feed pipes (one from Intake well to Jackwell and another directly from the river to the jack well) for a length of about 40 m are proposed. At the inlet at the Jack well, a DI

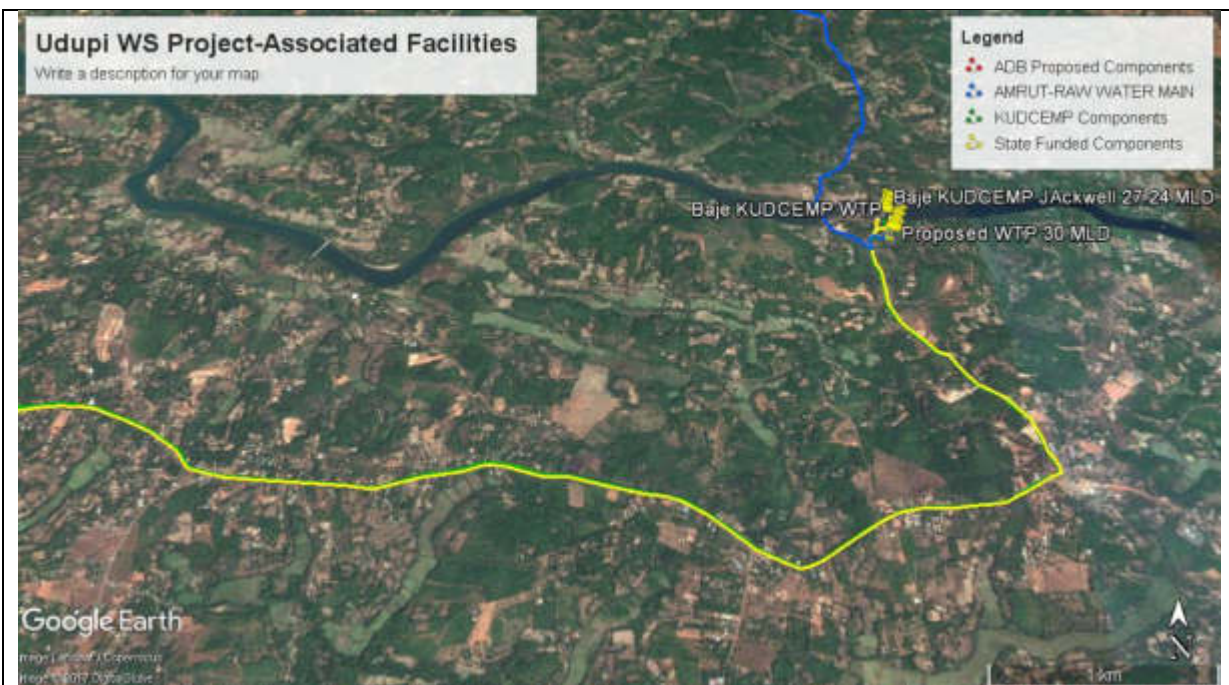
Sluice Valve of 1200 mm diameter is proposed to control the flow. It is proposed to construct a RCC Jackwell of RCC M-30 with 1.2 m dia, 12.5 m depth near the bank of the river.

25. The construction of the intake well, jack well cum pump house at Bharatkal, Halady will be within the existing abandoned lift irrigation pump house premises that belongs to Karnataka Niravari Nigama (a Government of Karnataka [GOK] entity responsible for planning, investigation, estimation, execution, operation and maintenance of all irrigation projects in the state), Siddapura. It is proposed to pump raw water with vertical turbine pumps of capacity 750 cum/hr against of total head of 100 m including 50% standby raw water pumping mains of 41 MLD capacity (864 mm OD 10mm thick MS Pipe) from the Jack Well to the proposed WTP at Halady. Additionally, three electromagnetic flow meters (to measure the flow), an electrically operated travelling crane, surge anticipating valves and zero velocity valves with RCC valve chambers are proposed. Road restoration for 18 kms and RCC pipe carrying bridges are proposed across four major rivers. From Baje (see alignment below), a state funded clear water pumping main (762 mm dia MS pipes of approx. 12 km) alignment connects to the Master Balancing Reservoir (MBR) at Manipal. The MBR was constructed under KUDCEMP and is a twin GLSR facility each with a 2.5 ML capacity.

Figure 5: Udupi Water Supply Map- including Associated Alignments



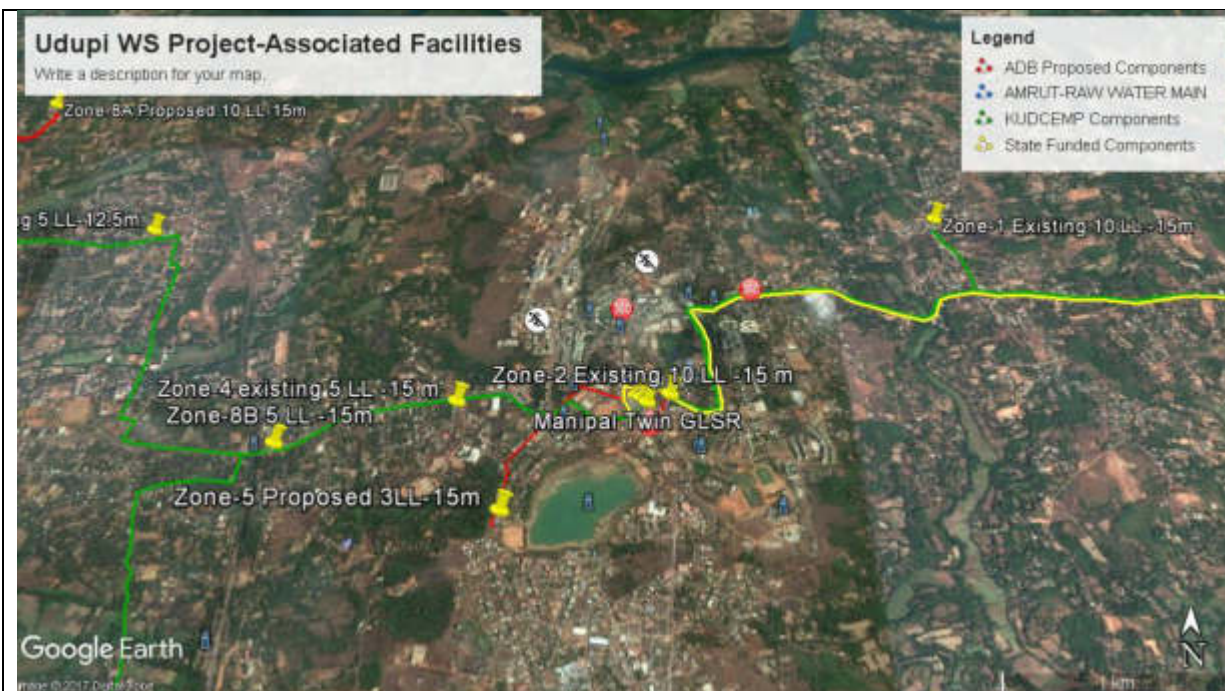




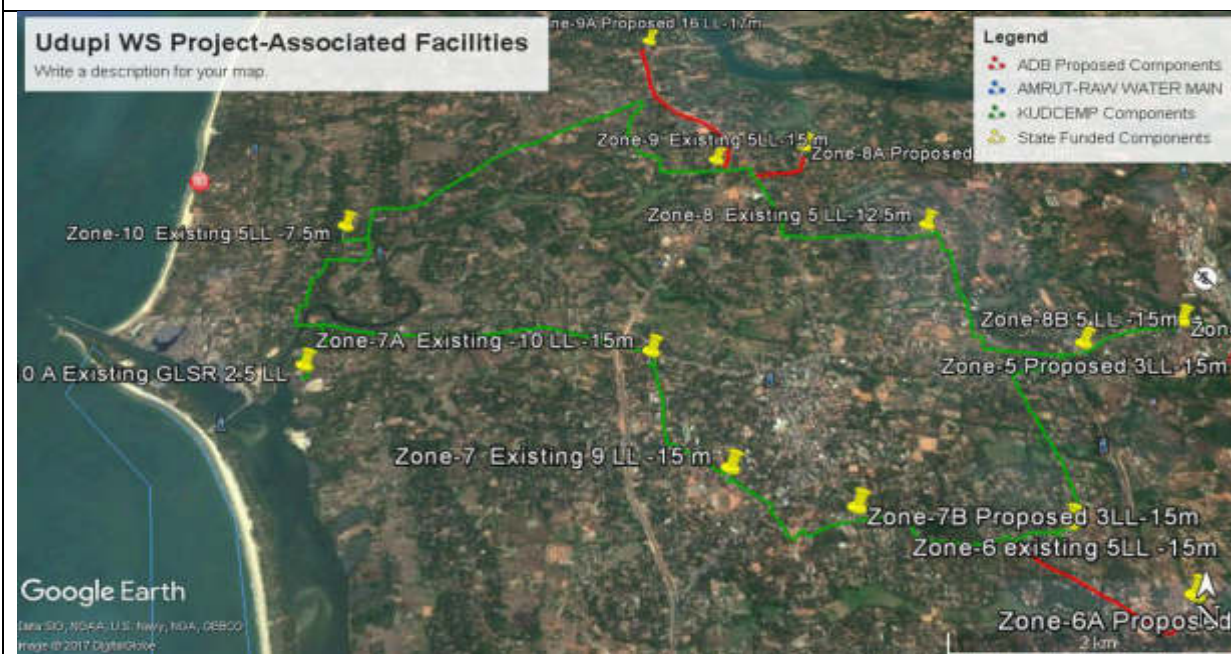
Alignment from Bharatkal, Halady to MBR at Manipal (38.88 km)



Zone 1 Alignment- KUDCEMP and State Funded



Alignment till Manipal MBR



Alignment of KUDCEMP Project

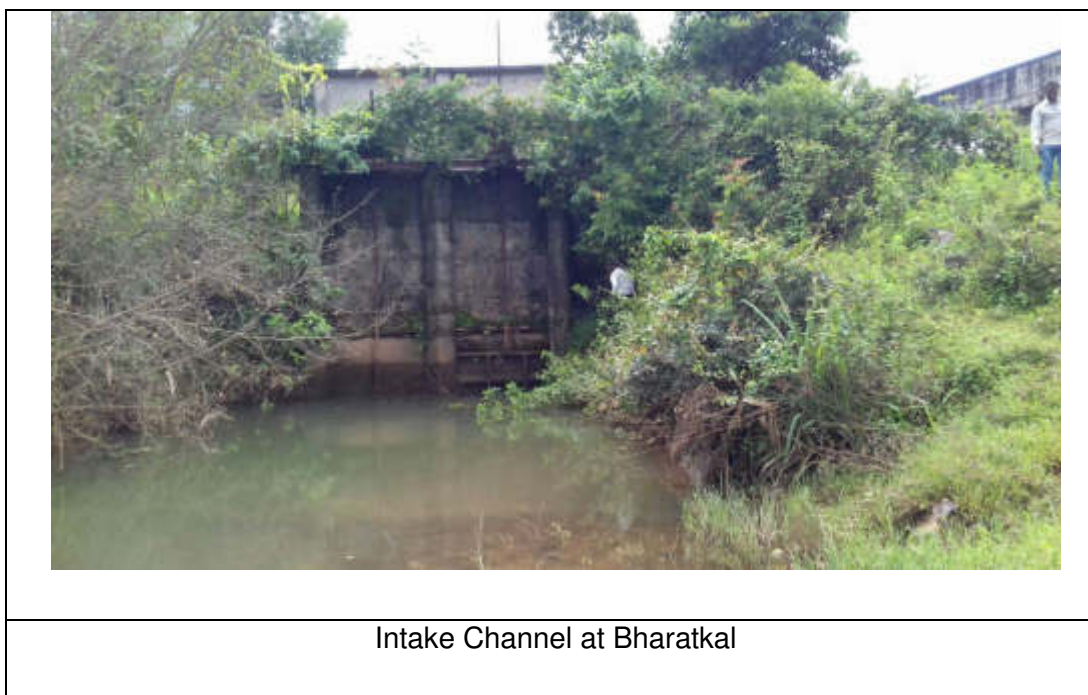
Figure 6: Project Details for Intake from Varahi River



Varahi River and Location of Intake Channel



Varahi River and Location of Intake



Intake Channel at Bharatkhal

Consultations with people living in and around the project sites and alignments as well as consultations with downstream users of the new water source were conducted on 16th August 2017 to ascertain potential impacts and people's perception of the project

26. The proposed Water Treatment Plant (WTP) at Halady is another associated facility (state funded). The land required for the WTP is a 0.6 acre. A site has been acquired from a private party, Mr K Jayaprakash Hegde through a negotiated settlement on 30th Dec 2019. Details are available in Appendix 8.

27. Supporting documentation concerning the associated facilities, comprising the intake, water treatment plant and raw water mains to confirm that there are no pending issues related to compensation payment or litigation or disputes will be submitted to ADB in subsequent SSMRs

C. Proposed Subproject Components

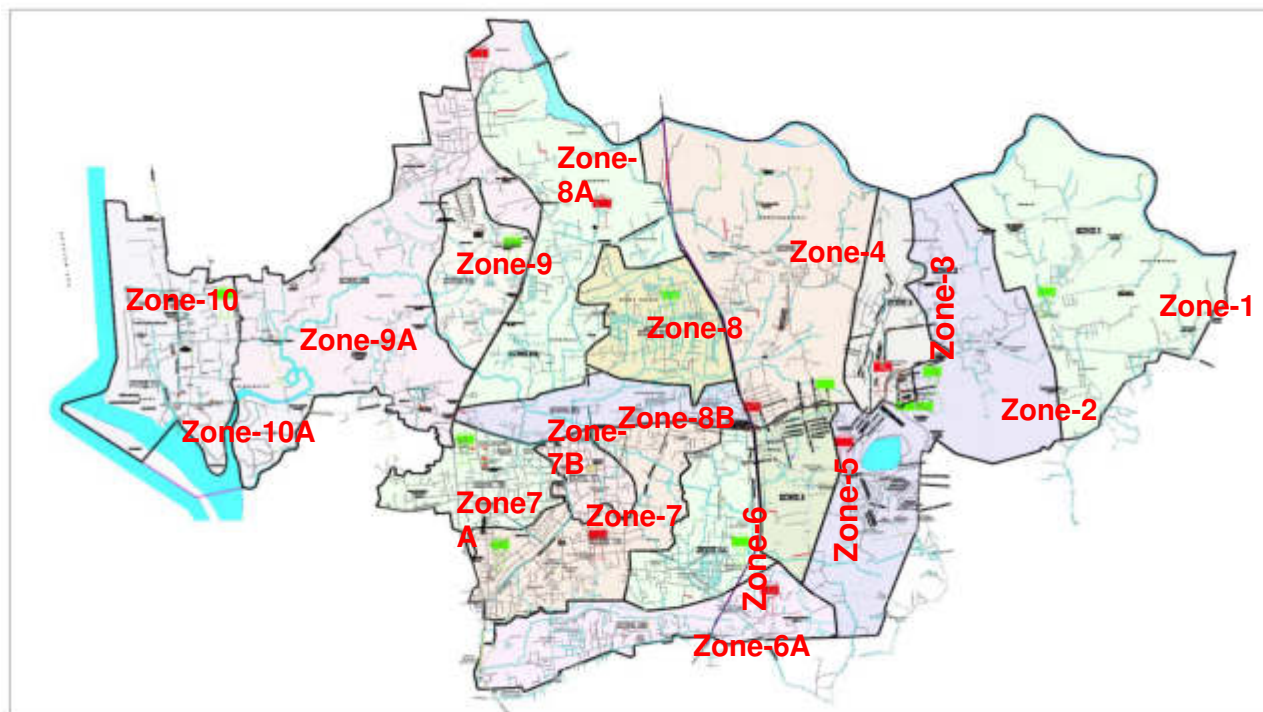
Table 3: Proposed Subproject Components, Udupi Water Supply

	Infrastructure	Function	Description	Location
1	Clear water feeder mains	Distribution of water from GLSR to newly proposed OHTs	Laying of 7.47 km	New clear water feeder main of 150 mm dia, DI K9 pipe for 1.5 kms length Pumping main from GLSR to OHT for zone-5, new clear water gravity main 5.97 kms, MS pipes from GLSR to newly proposed OHTs
2	Service Reservoirs	Storage of treated water prior to distribution	Construction of seven Elevated Storage Reservoirs	7 OHTs (Total 5.2 ML storage capacity) –Zone wise details- Zone-3 (7.5LL), Zone-5 (3 LL) , Zone-6B (7.5 LL), Zone-7C (3 LL), Zone-8B (10 LL), Zone-8C (5 LL) and Zone-9B (16 LL)

	Infrastructure	Function	Description	Location
3	Distribution system	Proposed for the uncovered areas of all zones and rider lines.	Laying of 358.16 km of Distribution network	Laying 358.17 kms of distribution pipe ranging from 63 mm dia to 350 mm dia HDPE pipes are proposed as follows.
4	Installation of house service connections (HSC)	Water audit	Replacement of 18,423 non-functioning water meters for existing connections and 15,000 new water supply connections to uncovered households	Water meters to be installed on each HSC connection

DI = ductile iron, GLSR = ground level storage reservoir, HSC = house service connection, HPDE = high-density polyethylene, OHT = overhead tank, km = kilometer, ML = milliliter, mm = millimeter.

Figure 7: Proposed Reorganization of 17 Water Supply Zones in Udupi



III. SCOPE OF LAND ACQUISITION AND RESETTLEMENT

28. In order to identify the adverse social impact of the project, a joint site visit was carried out by the ULB engineers, Resettlement Specialist and Design Engineer of the consultants' team from the 1 April 2016 to 30 May 2016 along the busy areas, commercial centres and narrow streets of Udupi. The site verification indicates that all components of the water supply sub project are either located on vacant government land or along the existing right of way (ROW) of the city roads.

Figure 8: Map of the Proposed Water Supply Distribution

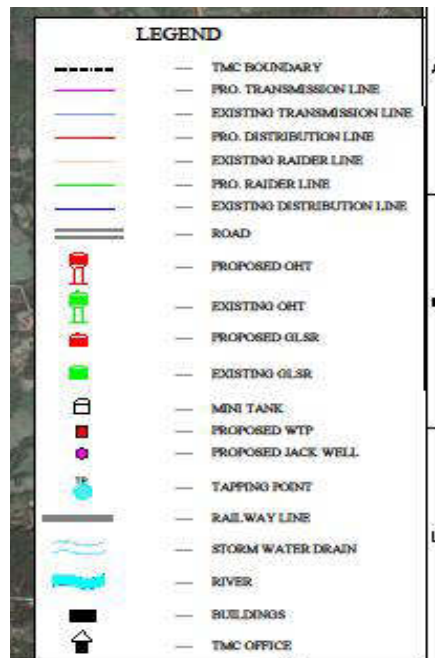
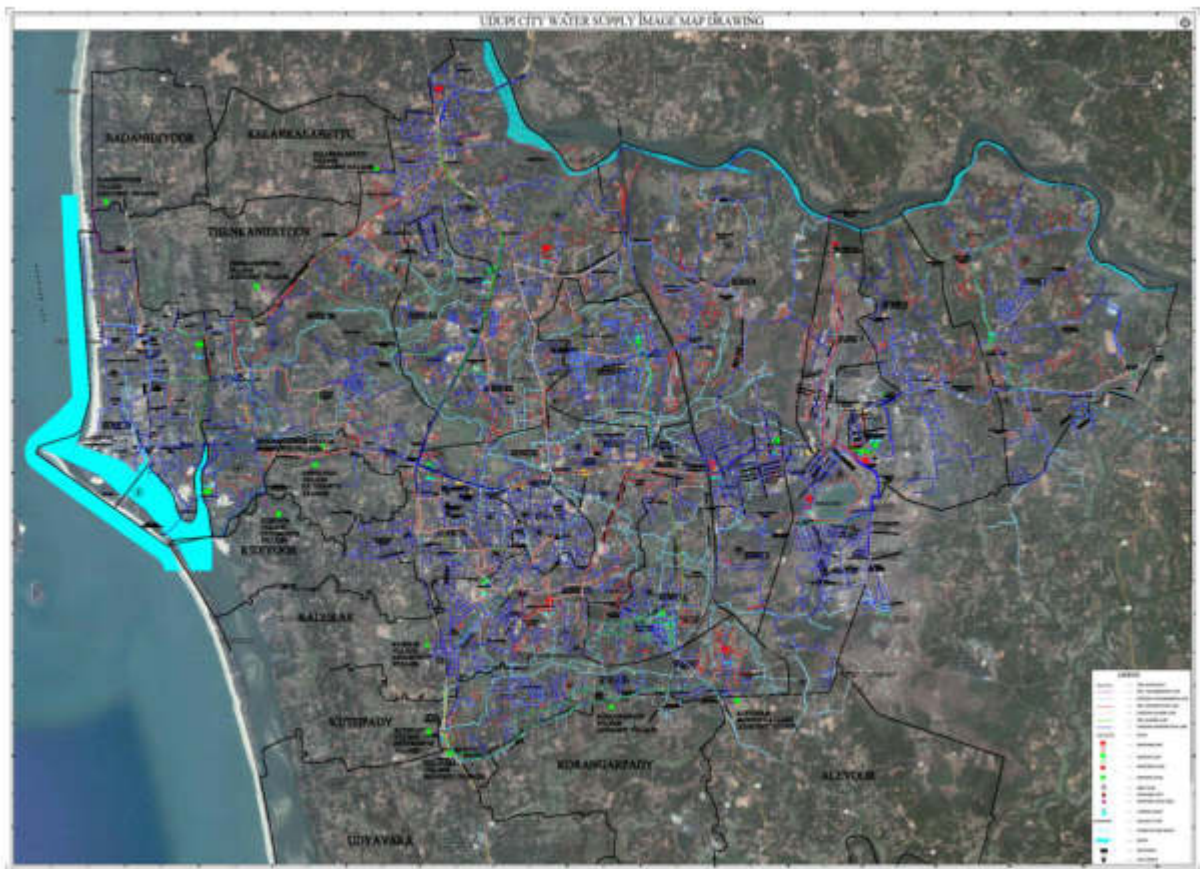
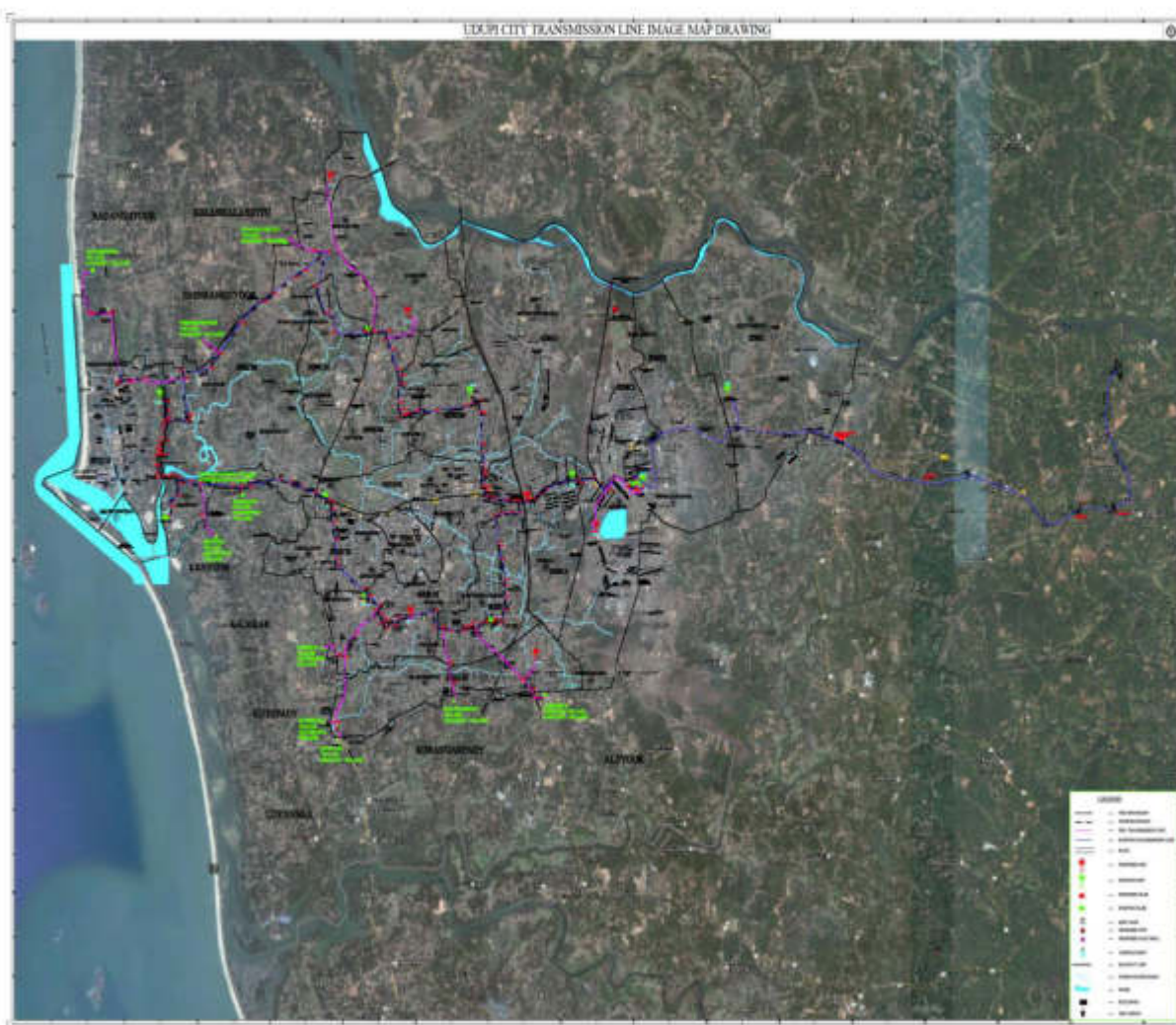


Figure 9: Map of the Transmission Line



29. The table below reflects the land requirement, availability, ownership and involuntary resettlement impacts for the proposed service reservoirs. Land records and details are presented in Appendix 1.

Table 4: Land Requirement- New Service Reservoirs








S.No	Zones	Location	Purpose	Required Land [m ²]	Ownership	Involuntary Resettlement Impacts/ Remarks
1	3	Manipal	Construction of OHT 7.5 LL	404.68	ULB land	Vacant, unused municipal land. No involuntary resettlement impact anticipated.
2	5	Near Manipal Mannampalla Lake	Construction of OHT 3 LL	202.34	ULB land	Vacant, unused municipal land. No involuntary

S.No	Zones	Location	Purpose	Required Land [m ²]	Ownership	Involuntary Resettlement Impacts/ Remarks
						resettlement impact anticipated.
3	7C	Kolambe (Near Ammani Rammanna Shetty Hall)	Construction of OHT 3 LL	222.57	ULB land	Vacant, unused municipal land. No involuntary resettlement impact anticipated. Consultations, awareness generation and disclosure activities have been held with proposed beneficiaries. They have proposed building the OHT towards another end of the site to allow college students to continue to play football and cricket on the ground. These suggestions have been incorporated into the design. The contractor will ensure safety of the public during construction. Appropriate safety measures such as hard barricading are included in the EMP/contractual requirements.
4	8C	Indrali	Construction of OHT 5 LL	586.79	ULB land	Proposed on vacant land within the existing compound of municipal cemetery. No involuntary resettlement impacts anticipated. Construction of a boundary wall around OHT is included in the project to separate the OHT from the cemetery and separate access is proposed. Consultations, awareness generation and disclosure activities have been

S.No	Zones	Location	Purpose	Required Land [m²]	Ownership	Involuntary Resettlement Impacts/ Remarks
						held with proposed beneficiaries They support the project and would prefer a boundary wall and separate entrance .
5	6B	Manchi	Construction of OHT 7.5 LL	404.68	ULB land	Vacant, unused municipal land. No involuntary resettlement impact anticipated.
6	8B	Kakkunje	Construction of OHT 10 LL	1011.71	ULB land	Vacant, unused municipal land. No involuntary resettlement impact anticipated.
7	9B	Santekatte	Construction of OHT 16 LL	1214.05	ULB land	Vacant, unused municipal land. No involuntary resettlement impact anticipated.

OHT = overhead tank, m² = square meter, ULB = urban local body.

Figure 10: Site Photographs - Proposed Service Reservoirs

 <p>Proposed OHT site at near Manapalla Lake for Zone-5</p>	 <p>Proposed OHT site at Manchi for Zone-6B</p>
 <p>Proposed OHT site near Ammani Ramanna Shetty Hall, Kolambe for Zone-7C</p>	 <p>Proposed OHT site at Indrali for Zone-8C</p>
 <p>Proposed OHT site at Kakkunje for Zone-8B</p>	 <p>Proposed OHT site at Santhekatte for Zone-9B</p>
 <p>Proposed OHT site at Manipal for Zone-3</p>	

30. All seven of the OHT sites are owned by the ULB, are vacant, unused and available for construction.

Table 5: Land Requirement- Proposed Clear Water Feeder Mains and New Distribution Pipelines

S.N.	Name of the Road	Size of the clear water feeder main and distribution system pipeline	ROW	Required trench width	Ownership	Involuntary Resettlement Impacts
1	Parkala market road	110 mm dia HDPE pipe	9.5 meters	0.6 meter	Right-of way (ROW)/ urban local body (ULB)	Nil
2	Herga temple road	110 mm dia HDPE pipe	5.5 meters	0.6 meter	ROW/ ULB	Nil
3	Herga temple 1 st cross road	110 mm dia HDPE pipe	4.5 meters	0.6 meter	ROW/ ULB	Nil
4	Herga temple 2 st cross road	110 mm dia HDPE pipe	4.5 meters	0.6 meter	ROW/ ULB	Nil
5	Golikatte road	110 mm dia HDPE pipe	4.00 meters	0.6 meter	ROW/ ULB	Nil
6	Kattingeri road	110 mm dia HDPE pipe	4.00 meters	0.6 meter	ROW/ ULB	Nil
7	Sheshadri road	110 mm dia HDPE pipe	3.5 meters	0.6 meter	ROW/ ULB	Nil
8	Herga, opposite to Govt. High School road	110 mm dia HDPE pipe	3.5 meters	0.6 meter	ROW/ ULB	Nil
9	Kodange- Tulaja Bhavani road	110 mm dia HDPE pipe	3.5 meters	0.6 meter	ROW/ ULB	Nil
10	Saralebettu Bhajana Mandir road	110 mm dia HDPE pipe	3.5 meters	0.6 meter	ROW/ ULB	Nil
11	Saralebettu Manipal End point road	110 mm dia HDPE pipe	3.5 meters	0.6 meter	ROW/ ULB	Nil
12	Manipal Alevoor road	150 mm dia HDPE pipe	9.5 meters	0.6 meter	ROW/ ULB	Nil
13	Mannampalla lake road	150 mm dia HDPE pipe	4.5 meters	0.6 meter	ROW/ ULB	Nil
14	Manipal main road	200 mm dia HDPE pipe	16 meters	0.6 meter	ROW/ ULB	Nil
15	Vidhyarathna Nagar road	110 mm dia HDPE pipe	4.00 meters	0.6 meter	ROW/ ULB	Nil
16	Vidhyarathna Nagar cross road	110 mm dia HDPE pipe	3.50 meters	0.6 meter	ROW/ ULB	Nil
17	Sagari Nagabrahmasthana road	110 mm dia HDPE pipe	3.00 meters	0.6 meter	ROW/ ULB	Nil
18	Sagrinole 2 nd cross road	110 mm dia HDPE pipe	3.50 meters	0.6 meter	ROW/ ULB	Nil
19	Gundibail manipal road	350 mm dia HDPE pipe	4.50 meters	0.9 meter	ROW/ ULB	Nil

20	KK Hospital road Doddannagudde	160 mm dia HDPE pipe	4.25 meters	0.6 meter	ROW/ ULB	Nil
21	V M Nagar road	110 mm dia HDPE pipe	4.50 meters	0.6 meter	ROW/ ULB	Nil
22	Udupi Manipal road	300 mm dia HDPE pipe	7.50 meters	0.9 meter	ROW/ ULB	Nil
23	Kalsanka junction road in Udupi Manipal road	300 mm dia HDPE pipe	18 meters	0.9 meter	ROW/ ULB	Nil
24	Maruti Vithika road	300 mm dia HDPE pipe	9.00 meters	0.9 meter	ROW/ ULB	Nil
25	Poornaprajna road	300 mm dia HDPE pipe	4.00 meters	0.9 meter	ROW/ ULB	temporary economic impact estimated to 03 vendors
26	Lambard Memorial road	300 mm dia HDPE pipe	5.25 meters	0.9 meter	ROW/ ULB	Nil
27	Kolambe road	300 mm dia HDPE pipe	3.00 meters	0.9 meter	ROW/ ULB	Nil
28	Bhujanga Rao road	300 mm dia HDPE pipe	3.5 meters	0.9 meter	ROW/ ULB	Nil
29	Sharada Kalyan Mantap road	300 mm dia HDPE pipe	5.50 meters	0.9 meter	ROW/ ULB	Nil
30	Circuit House road	300 mm dia HDPE pipe	5.75 meters	0.9 meter	ROW/ ULB	Nil
31	Vishveshwarayya road	350 mm dia HDPE pipe	4.25 meters	0.9 meter	ROW/ ULB	Nil
32	NH 66 Service road	350 mm dia HDPE pipe	4.5 meters	0.9 meter	ROW/ ULB	Nil
33	Convent road	350 mm dia HDPE pipe	8.00 meters	0.9 meter	ROW/ ULB	Nil
34	NH 66 near Hyundai show room road	110 mm dia HDPE pipe	12 meters	0.6 meter	ROW/ ULB	Nil
35	Kalyanpura road	350 mm dia HDPE pipe	7.25 meters	0.9 meter	ROW/ ULB	Nil
36	Santhekatte N H 66 Service road	350 mm dia HDPE pipe	5.00 meters	0.9 meter	ROW/ ULB	Nil
37	Malpe road Junction and in front of Canara Equipment	350 mm dia HDPE pipe	5.75 & 5.0 metres	0.9 meter	ROW/ ULB	Nil
38	Kodavuru road	110 mm dia HDPE pipe	5.5 meters	0.6 meter	ROW/ ULB	Nil
39	Moodabettu road	350 mm dia HDPE pipe	4.5 meters	0.9 meter	ROW/ ULB	Nil
40	Malpe Udupi road	200 mm dia HDPE pipe	7.25 meters	0.6 meter	ROW/ ULB	Nil
41	Diana Kukkikatte road	110 mm dia HDPE pipe	6.25 meters	0.6 meter	ROW/ ULB	Nil
42	Vyavahar Garden Road	300 mm dia HDPE pipe	5.0 meters	0.9 meter	ROW/ ULB	Nil
43	Manchi Mulasthana road	300 mm dia HDPE pipe	3.00 meters	0.9 meter	ROW/ ULB	Nil

44	HUDCO colony road	150 mm dia DI-K9 pipe	6.25 meters	0.6 meter	ROW/ ULB	Nil
45	Diana- Kukkikatte road	273.1 mm dia MS pipe	6.5 meters	0.9 meter	ROW/ ULB	Nil
46	Kakkunje road	323.9 mm dia MS pipe	4.75 meters	0.95 meter	ROW/ ULB	Nil
47	Kakkunje High school road	323.9 mm dia MS pipe	4.75 meters	0.95 meter	ROW/ ULB	Nil
48	Sri Durga Parameshwari temple road	355.6 mm dia MS pipe	5.75 meters	1 meter	ROW/ ULB	Nil
49	Service road Santhekatte Udupi. Road width	355.6 mm dia MS pipe. NH 66	5.75 meters	1 meter	ROW/ ULB	Nil

HDPE = high density polyethylene, m = meter, mm = millimeter, ROW = right of way.

Figure 11: Photographs - Roads with Proposed Clear Water Feeder Mains and Distribution Pipeline Alignments



110 mm dia HDPE pipe Parkala Market road near Parkala Primary School. Road Width 9.50 m



110 mm dia HDPE pipe Herga temple road. Road Width 5.50 m



110 mm dia HDPE pipe Herga temple 1st cross road. Road Width 4.50 m



110 mm dia HDPE pipe Herga temple 2nd cross road. Road Width 4.50 m



110 mm dia HDPE pipe Golikatte road. Road Width 4.00 m



110 mm dia HDPE pipe Kattingere road. Road width 4.00 m



110 mm dia HDPE pipe. Opp. Govt. High School Herga. Road width 3.5 m



110 mm dia pipe. Sheshadri road. Road width 3.5 m



110 mm dia HDPE pipe. Kodange- Tulaja Bhavani Devi Katte road. Road width 3.5 m



110 mm dia HDPE pipe. Sarlebetu Bhajana Mandir road. Road width 3.5 m



110 mm dia HDPE pipe. Sarlebetu Manipal End Point road. Road width 3.5 m



150 mm dia HDPE pipe. Manipal Alevoor road near Twin GLSR. Road width 9.5 m



150 mm and 110 mm dia HDPE pipe.
Mannampalla lake road. Road width 4.5 m



200 mm and dia HDPE pipe. Manipal main road
Near Syndicate Bank circle. Road width 16 m
(Double road)



110 mm HDPE pipe. Vidyarthna Nagara near
sathkar Paradise Manipal . Road width 4.00 m



110 mm HDPE pipe. Vidyarthna Nagara cross
road. Road width 3.50 m



110 mm HDPE pipe. Sagrinagabrahmasthanana
road. Road width 3.00 m



110 mm HDPE pipe. Sagrinole 2nd cross road.
Road width 3.50 m



350 mm HDPE pipe. Gundibail Manipal Road.
Road width 4.50 m



160 mm dia HDPE pipe. KK Hospital Road
Doddannagudde. Road width 4.25 m



110 mm HDPE pipe. V. M Nagar Road.
Road width 4.50 m



300 mm HDPE pipe. Near Indrali bridge in Udupi-
Manipal Road. Road width 7.50 m



300 mm HDPE pipe. Kalsanka junction in Udupi-
Manipal road. Road width 18 m (Double road)



300 mm HDPE pipe. Maruti Vithika Road Udupi.
Road width 9.00 m



300 mm HDPE pipe. Poornaprajna Road Udupi.
Road width 4.00 m



300 mm HDPE pipe. Lambard Memorial Road
Udupi. Road width 5.25 m



300 mm HDPE pipe. Kolambe Road Udupi.
Road width 5.5 m



300 mm HDPE pipe. Chitpadi- Beedinagudde
Road Udupi. Road width 4.00 m



300 mm HDPE pipe. Kolambe Road Udupi.
Road width 3.00 m



300 mm HDPE pipe. Bhujanga Rao Road Udupi.
Road width 3.50 m



300 mm HDPE pipe. Sharada Kalyan Mantap Road Udupi. Road width 5.50 m



300 mm HDPE pipe. Circuit House Road near S. P. office Udupi. Road width 5.75 m



350 mm HDPE pipe. Vishveshwarayya road Udupi. Road width 4.25 m



350 mm HDPE pipe. NH 66 Service road Udupi. Road width 4.5 m



350 mm HDPE pipe. Convent road Udupi. Road width 8.00 m



110 mm HDPE pipe. NH 66 road near Hyndui show room Udupi. Road width 12.00 m



350 mm dia HDPE pipe. Kalyanpura road Udupi.
Road width 7.25 m



350 mm and 110 mm dia HDPE pipe.
Santhekatte NH 66 Service road Udupi. Road
width 5.00 m



350 mm dia HDPE pipe. Malpe road Junction.
Road width 5.75 m



350 mm dia HDPE pipe. Infront of Canara
Equipments Malpe road. Road width 5.00 m



350 mm and 110 mm dia HDPE pipe. Kodavuru
road. Road width 5.5 m

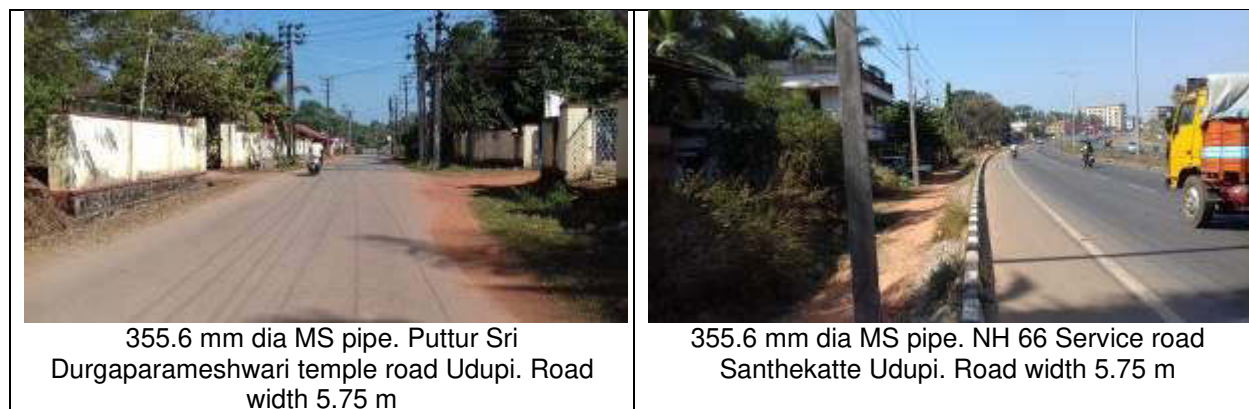


350 mm dia HDPE pipe. Mudubettu road.
Road width 4.5 m



Figure 12: Photographs of Alignment of Proposed Clear Water Feeder Mains from Existing Clear Water Main to Proposed Over Head Tanks





31. Potential economic impact to contractual employees on muster roll of the ULB will be avoided. It is noted that Udupi ULB has contractual staff on muster roll to support operation of the existing water supply system.¹ The ULB has confirmed that the contractual staff who will be in the muster roll during the handing over of operation and maintenance responsibilities for water supply to the respective contractors, will be provided alternative employment through muster roll within ULB operation. A letter of assurance to this effect from the ULB is sought and will be provided prior to award of contract. In the event that this livelihood impact cannot be mitigated, the provisions of the agreed entitlement matrix and the resettlement framework will be followed for livelihood restoration.

¹ Muster roll is used for keeping a complete record of attendance, payment made, unpaid wages and work done by daily labour engaged by the ULBs for a maximum of 240 days.

Table 6: Land Requirement-Proposed Water Supply Distribution Network Components in Udupi and Involuntary Resettlement Impacts

S.N	Infrastructure	Function	Description	Location	Remarks
A. Water Supply Distribution Network Component					
1	Distribution system pipelines	Distribute treated water has been proposed for the uncovered areas of all zones.	Laying of 358.16 km of Distribution network	<ul style="list-style-type: none"> • 284.87 km of distribution pipe for uncovered area; • 73.3 km rider and service lines along public roads across the town. Pipe lines will be laid in the ROW. 	No permanent involuntary resettlement impact is anticipated. There may be a minimal temporary economic impact to three hawkers and vendors for a period of 15 days each, and traffic disruption envisaged. Pipe lines will be laid in the ROW of
2	Installation of House service connections	Water audit	15,000 new HSC and new water meters for existing 18,423 connections.	<ul style="list-style-type: none"> • Water meters to be installed on each HSC connection. 	No involuntary resettlement impact anticipated.
3	Clear water feeder mains	Distribution of water from WTP to service reservoirs	laying of 7.47 km	<ul style="list-style-type: none"> • Clear water main for 1.5 km DI K9 pipe pumping main from GLSR to OHT Zone-2. • Clear water gravity main for newly proposed OHTs for 5.97 km MS Pipes along ROW 	No involuntary resettlement impact anticipated. Pipe lines will be laid within the existing ROW of roads belonging to the ULB
4	Service Reservoirs	Temporary storage of treated water prior to distribution	Construction of Elevated Storage Reservoirs	Seven OHTs at Zone- 3(5 LL) Zone-5(3 LL), Zone-6B (7.5 LL), Zone-7C (3 LL), Zone-8B (10 LL), Zone-8C (5 LL) & zone-9B (16 LL).	No involuntary resettlement impact anticipated. All sites identified for service reservoirs belong to ULB. Consultations are proposed around each site to ensure incorporation of stakeholder concerns if any, into design.

DI = ductile iron, GLSR = ground level service reservoir, HSC = house service connection, OHT = overhead tank, km = kilometer, ROW = right of way, ULB = urban local body, WTP = water treatment plant.

A. Temporary Impact

32. A joint site verification/ transect walk was conducted by the design engineer and resettlement specialist during the period from 1 April 2016–30 May 2016 indicates that there will be minimal temporary impact.

33. A total of seven hawkers and vendors were identified during the transect walk on 9 August 2017 that will be temporarily affected during the project. However, with a change in alignment in the updated DPR, four vendors along Lombard road are no longer affected. The three vendors, identified through the detailed measurement surveys are located along Poornaprajna Road. Details of the vendors are presented in the socioeconomic profile. Reverification of the alignment in March 2020 indicates that the vendors will need to be assisted by the contractor and the Community Awareness, Participation, Rehabilitation and Resettlement Consultant (CAPRRC) to move to the other side of the road and return after construction is completed or provided shifting allowance. This resettlement plan addresses the assessed temporary impacts identified based on the detailed measurement survey.

34. The construction period will be minimized and is estimated as 15 days per section of work. Census and extensive reconnaissance surveys in the project area do not reveal the need for closure of roads. Opening a trench for water supply pipelines in one stretch of the road at a time is likely to minimize disruptions and impacts. Facilities for pedestrian movement will be provided so that no major impacts on businesses and their employees are anticipated. There is scope to minimize impacts on businesses and residences through proper planning and the implementation of proper mitigation measures.

35. The following mitigation measures shall be adopted to avoid and/or reduce the temporary impacts to businesses during the project implementation:

- (i) Provision of advance notice to community to shift their merchandise, vending items, mobile shops at least 7 days prior to construction work;
 - (ii) Conducting awareness campaigns through a media partner, if any with signage for road diversion, safety caution, etc;
 - (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 against safety hazard, especially during day time working period, near road crossings, near schools, etc;
 - (v) Managing traffic flows as per the traffic management plan prepared by the contractor in coordination with local authorities and communities;
 - (vi) Conducting major portion of the works in congested areas / business areas at night;
 - (vii) Limiting period of time for open trenches;
 - (viii) Completing works quickly where large numbers of businesses are located;
 - (ix) Avoiding full road closure to the extent possible;
 - (x) Placing telephone hotlines in signs on visible areas to notify in case of emergency;
 - (xi) Making the community fully aware of the grievance redressal mechanism;
 - (xii) Providing contact number of responsible persons in the PMU and ULB offices; and
 - (xiii) Providing assistance to vendors and hawkers in shifting to alternative nearby locations and help in reinstallation of their business as early as possible
- Corrective Plan shall be prepared if any unforeseen issues are identified during the project implementation.

36. In case any of the assessed impacts are possible to avoid during civil works, no compensation needs to be paid. Any such avoided impacts will be carefully documented with photographic evidence during construction and consultations with persons assessed as affected in this RP, to confirm impact avoidance. Details of any impact avoidance will be presented in the next SSMR.

37. Additionally, a site inspection was conducted along the alignment of the associated projects (AMRUT and State) on 9th October 2017. This was to verify that the construction of the alignment would not adversely affect the villages along the alignment either temporarily or permanently. The visit verified that the villages do not lie along the alignment (which follows the road) and for the settlements along the road, there will be no major impacts to either pedestrians, businesses or employees. Any construction along the alignment will be mitigated by facilities such as provision of planks, managing traffic flows, avoiding road closure etc. In the case of any temporary impact through the associated projects, the GOK will ensure that the affected persons are compensated prior to displacement.²

B. Gender Impact and impact on Indigenous People

38. Three affected persons assessed as temporarily affected by the project based on DMS, are female. Socioeconomic details are provided in the following section.

39. No indigenous people were found among the affected persons. Detailed measurement survey undertaken prior to start of construction by SDO of RPMU with support of the concerned ULB staff has found that the project does not cause any adverse gender impact or impact on indigenous people. If such indigenous people families are found to be affected due to involuntary resettlement impact mitigation measures will be taken as per provisions in the indigenous peoples planning framework (IPPF).

IV. SOCIOECONOMIC INFORMATION AND PROFILE

40. A total of three hawkers and vendors were identified during the transect walk conducted on 9 August 2017 and the reverification conducted in February 2020 as likely to be affected due to pipelaying work. The vendors are located along Poornaprajna Road

41. Presented below are the socioeconomic details of the identified vendors.

- (i) All three of the affected persons are female;
- (ii) All affected persons self-identified as Other Backward Castes³ (OBC) category;
- (iii) Two of the households possess BPL ration cards; vulnerable⁴ households will be given priority in employment in the project construction activities

² Any involuntary resettlement impacts arising from the pipelines or any other components being laid/constructed with government funds, which will be part of the same water supply project, will be identified and shared with ADB and Government of Karnataka will ensure that such impacts are compensated/mitigated prior to displacement or start of construction work on those components.

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

⁴ 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. 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

- (iv) None of the affected persons have been educated beyond secondary level, and only one household member of an affected person has received university education; and
- (v) The stated annual income of the affected persons (not household income) ranges between ₹132,000 to ₹180,000. The stated actual income loss per day of the affected persons is Rs 1,500 (collectively).

Table 7: Socioeconomic Profile of Vendors identified through Detailed Measurement and Census Survey

SI No	Name of Family members	Address	Relationship to Head of the Household	Sex	Age	Education	Annual Income ₹	Caste	Details of ration card
1	Mrs. Bhagya W/o Rammanna Gouda	Near Udupi Taluk Agricultural Produce Co operative Marketing Society Ltd, Poornaprajna Road, Udupi	Wife	Female	40	Illiterate	132,000/-	OBC	BPL
2	Mr. Ramanna Gouda		Head of the family	Male	44	6th Standard	168,000/-	OBC	
3	Mr. Manju		Son	Male	17	Pre-University Course	-	OBC	
4	Mr. Shivananda		Son	Male	13	6th Standard	-	OBC	



SI No	Name Of Family members	Address	Relationship to Head of the Household	Sex	Age	Education	Annual Income ₹	Caste	Details of ration card
1	Mrs. Indira W/o Vittala Prabhu	Near Udupi Taluk Agricultural Produce Co operative Marketing Society Ltd, Poornaprajna Road, Udupi	Head of the family	Female	70	5th Standard	180,000/-	OBC	APL
2	Mr. Vittala Prabhu		Husband	Male	85	Illiterate		OBC	
3	Mr. Manoj		Son	Male	42	10 th Standard		OBC	

SI No	Name Of Family members	Address	Relationship Between Head of the Household	Sex	Age	Education	Annual Income ₹	Caste	Details of ration card
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1	Mrs. Usha W/o Vishwanath Nayak	Near Udupi Taluk Agricultural Produce Co operative Marketing Society Ltd, Poornaprajna Road, Udupi	Head of the family	Female	55	7th Standard	180,000/-	OBC	BPL
2	Mr. Vishwanath Nayak		Husband	Male	63	5th Standard	-	OBC	
3	Mr. Santhosh Kumar		Son	Male	29	10th Standard	120,000/-	OBC	

Note: None of the affected households fall below the poverty line using the income criteria of ₹2,231 per capita per month in urban areas to define BPL.^a

^a 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. The updated per capita income for 2018-19 is Rs 1,583 for rural and Rs 2,230 for urban areas in Karnataka

Affected Persons at Poorna Prajna Road	
	
Mrs. Usha W/o Vishwanath Nayak	Mrs. Bhagya W/o Ramanna Gouda
	
Mrs. Indira W/o Vittala Prabhu	

42. The subproject components of the Udupi water supply distribution network were shared with all the vendors. The vendors were **informed that assistance** would be provided to them prior to start of construction.

43. The affected persons indicated that they are willing to support the project. They also indicated that planks should be provided for the customer access during the construction period.

V. CONSULTATION, PARTICIPATION AND INFORMATION DISCLOSURE

A. Consultation and Participation

44. In order to identify the involuntary resettlement impacts of the project, a joint site visit was carried out by the ULB engineers, Resettlement Specialist and design engineer of the consultant team from 1 April 2016–9 August 2017 along the busy areas, commercial centers and narrow streets of the project city. Discussions with stakeholders and community members were conducted along the alignment and around the proposed OHT sites. Details of the consultations/ discussions and photographs of the consultations are presented in appendix 2. The discussions were conducted with Ward Councillors (Elected Representatives), ULB officers, project implementation unit (PIU) officers and the Social Development Specialist of project management design and construction supervision consultant (PMDSCS). A total 32 project stakeholders along the alignment were consulted. Of these 11 (34%) were women. During the discussions, details of the project were disclosed to the community, the cut-off date for identification of temporarily affected (date of detailed measurement survey- the cut-off date is Feb 2020) was discussed, and feedback was elicited. The following are the comments of the participants:

- (i) The work should be completed quickly;
- (ii) The local residents should be informed about trenching/excavation work at least one week in advance;
- (iii) Employment provided to local skilled and semi-skilled labourers during the construction stage;
- (iv) Inconvenience and traffic disturbances due to construction work in the city should be minimized; and
- (v) People are willing to cooperate to implement the project successfully.

Figure 13: Photographs of Consultations/ Discussions with Stakeholders/ Community



45. A site inspection and consultation/ discussion with community/ stakeholders was conducted along the alignment of the associated projects on 9 October 2017. This was to verify that the construction of the alignment would not adversely affect the villages along the alignment either temporarily or permanently. The project's representatives informed the participants that the project design would include a provision for bulk (raw) water availability for en-route villages, which they would have to treat and distribute. The details of the consultations are available in the Due Diligence Report for Associated Facilities (appendix 8). Some of the critical comments made during the discussions included:

- (i) Welcoming and appreciating the project;
- (ii) Awareness of the project and its components;
- (iii) Willingness to spread information about the project;
- (iv) Requesting that the project be completed as soon as possible and with as little disturbance to people; and
- (v) Requesting that the project provide water to the people along the alignment as water availability and supply is low in the summer months.

46. In Udupi, 25 public consultations have been held since 2018.

- a. Two of these were town level and four were held in en route villages.
- b. Twelve public consultations were held between Jan 2018 and June 2019. 319 stakeholders attended of which 46 were women (15%).
- c. Since June 2019, 13 ward level public consultations have been held. Over 634 stakeholders attended of which 185 (29%) were women.
- d. Totally, 1085 stakeholders attended; of which 231 (21%) were women
- e. More ward level consultations and discussions are planned through the implementation of the project

- f. A summary of the public consultations and discussions held so far along the alignment are presented below. Details of six of the meetings are presented in the appendix 4. The remainder are available in the SSMR's for Feb –June 2019 and July 2019- Jan 2020.

Table 8: Summary of Public Consultations						
Date of Meeting	Ward	Location	Attendance	No of Women	Issues Raised	Response and Resolution
2 February 2018	Town level	Udupi Municipal Council (MC) Meeting Hall	70	8	Questions that were raised included the pump sets were getting destroyed due to non-usage for eight months in the year; the current scarcity of water;	Project details (sub components, timeline, cost) and the decision making process were explained. Pump sets would be repaired Details of the meeting are presented in the appendix 4
21 February 2018	Town Level	Mookambika Bhajana Mandir, Kodavoor, Udupi	76		Questions were raised by the attendees about the timeline and the efficacy of the project execution.	Details of the project were explained to the attendees. Details of the AMRUT and state associated projects were also explained The timelines, institutional arrangement and monitoring mechanism was explained by the project team. Details of the meeting are presented in the appendix 4
07 March 2018	enroute village	Kukehalli, Udupi	19	5	Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. The villages also requested that damages should be rectified immediately and that the quantum of water for the villages be adequate. All the attendees were supportive of the project	Details of the project were explained to the attendees. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Assurances were made that damage would be rectified immediately and to reduce inconvenience through construction. Details of the meeting are presented in the appendix 4
15 March 2018	en route village	Kokkarne,	17	3	Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. Villagers requested that damages on the road be repaired immediately. All the attendees were supportive of the project.	Details of the project were explained to the attendees. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Assurances were made that damage would be rectified immediately and to reduce inconvenience through construction. Details of the meeting are presented in the appendix 4
03 March 2018	en route village	Kadoor,	36	4	Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. Villagers requested that damages on the road be	Details of the project were explained to the attendees. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Assurances were made that damage would

Table 8: Summary of Public Consultations						
Date of Meeting	Ward	Location	Attendance	No of Women	Issues Raised	Response and Resolution
					repaired immediately. All the attendees were supportive of the project.	be rectified immediately and to reduce inconvenience through construction. Details of the meeting are presented in the appendix 4
05 March 2018	en route village	Cherkady,	18	3	Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. Villagers requested that damages on the road be repaired immediately. All the attendees were supportive of the project.	Details of the project were explained to the attendees. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Assurances were made that damage would be rectified immediately and to reduce inconvenience through construction. Details of the meeting are presented in the appendix 4
18.12.2018	21, 22, 23 and 24	Ammanni Ramanna Shetty hall	18	0	De siltation of Baje dam, absence of commissioner and other officials in the meeting, water scarcity, restoration of old connections.	Project components and implementation schedule was explained. Details available in the SSMR (Feb 2019- June 2019)
18.12.2018	15- 21	RSB Community Hall, Manipal	31	1	Comments included timeline for completion of 3 packages, alignment, insufficient water supply in elevated areas, poor water supply	Project components and implementation schedule was explained. Details available in the SSMR (Feb 2019- June 2019)
19.12.2018	28,30,31,32,33 and 35	Town Mini Hall	21	9	Comments raised include date of project completion, replacement of old pipes, number of OHTs, distribution meter work, avoidance of cutting of existing roads.	The details of project components were explained. Assurances were made that damage would be rectified immediately and to reduce inconvenience through construction Details available in the SSMR (Feb 2019- June 2019)
22-12-2018	wards 29 and 30	Satyamurthy Memorial Hall, Udupi CMC office	20	10	Dispute over water from Varahi river; agreements with Panchayats, details of OHT's, current drop in water supply	Project components and implementation schedule was explained. Assurances were made that en route villages had been consulted. Details available in the SSMR (Feb 2019- June 2019)
22-12-2018	wards 25,26 and 27	Kamalabai High school, Kadiyali-Udupi	13	3	Water scarcity, project details	Project components and implementation schedule was explained. Details available in the SSMR (Feb 2019- June 2019)

19.08.19	11	Kakkunje	33	04	What is the proposed project period and how you planned to bring water from Varahi River to Udupi city; Baje area has tremendous water depletion; will the pipelines pass through private lands to bring water to Udupi; population considered for the proposed project; is loan taken from ADB for all 03 packages; better to limit the water supply to Kakkunje only from proposed water tank; difficult to keep faith in this proposed project because of failure of previous projects.	Project components and implementation schedule was explained. Assurances were provided that KUDCEMP issues would be avoided due to the O&M being managed by the contractor; Details available in the SSMR (July 2019- Jan 2020)
19.08.19	12	Karamballi	40	05	How many OHTs are planned in Udupi under the proposed project? Hours of water supply per day? Mechanism to fix water tariff for multi storied buildings? Measures for water tariff for domestic and commercial users; instead of Varahi River, may be better to construct a barrage at Swarna River; are you providing water to the existing as well as new consumers; will this project serves only Municipal areas; what type of water meter will be installed and is there any provision for prepaid facility to pay the bill?	Project components and implementation schedule, water tariff, water meters, payment facilities explained Details available in the SSMR (July 2019- Jan 2020)
20.08.19	31	Bailuru	116	39	Details of the project; restoration work; difficulty to keep faith in proposed project because of failure of previous projects; maintain public consultations; water shortage	Project components and implementation schedule, water tariff, water meters, payment facilities explained. Assurances were provided that road restoration would be immediate and KUDCEMP issues would be avoided due to the O&M being managed by the contractor;

						Details available in the SSMR (July 2019- Jan 2020)
20.8.19	32	Kinnimulki	35	09	area of Kinnarpadi is elevated and doesn't get proper water pressure-resolve; construct an OHT in Kinnimulki ward to avoid a water crisis; UGD works not maintained and over flowing is taking place in heavy rains- resolve	Project components and implementation schedule, water tariff, water pressure, water meters, payment facilities explained. UGD is not being undertaken under this project. Details available in the SSMR (July 2019- Jan 2020)
26.08.19	10	Gopalapuram	50	03	Is there any pipeline connection to Santhekatte-Gopalapura from Manipal GLSR; no water supply to Nayampalli and shanthivana areas near National Highway; Gopalapura should not face shortfall of water by providing water to nearby villages; is payment required for installation of new water meter? when will the new water meters be installed; multi -storied buildings with 2-3 bore wells causing water depletion- what remedy	Project components and implementation schedule, water tariff, water pressure, water meters, payment facilities explained. It was explained that the project will adequately supply all of Udupi. Details available in the SSMR (July 2019- Jan 2020)
26.08.19	9	Subramanyan agar	68	28	Water supply to Udupi city from the Varahi River through pipeline or open canal? Why not consider nearby Seeta and Madisalu Rivers instead of Varahi? How many open wells are in Udupi and how many are functioning? Wouldn't it be better to take a grant from State or central government instead of a borrowing loan from ADB?	Project components and implementation schedule, water tariff, water pressure, water meters, payment facilities explained. Reason for the source was explained. It was explained that the project will adequately supply all of Udupi. Explained that the financial documents are all available online. Details available in the SSMR (July 2019- Jan 2020)

29.08.19	13	Moodu Perumpalli	41	11	Procedures for the new HSC; methodology for fixing water slabs and tariff; directions for getting water directly from pumps; water pressure for the proposed project; some areas like Kappanje etc., of Perampalli ward don not get sufficient water due to leakages and damages; will provide land for the proposed OHT; tariff should not burden the community; focus on resolving day to day grievances; intermittent water supply at midnight maximum 1 hour only; no communication in advance regarding water supply hours; CMC has not repaired street lights and damaged road for the last 8 months	Project components implementation schedule, water tariff, water pressure, water meters, payment facilities explained. It was explained that the project will adequately supply all of Udupi. Pro poor tariffs and grievance mechanism was explained. The CMC is informed of the issues relating to them Details available in the SSMR (July 2019- Jan 2020)
29.08.19	08	Nittur	84	25	water slab and tariff system of the proposed project; level of water pressure to be maintained; steps for House Service Connections (HSC); details of the project for the ward; upgrading management skills of urban local body; create awareness in community on water management; grievance redressal mechanism; water handling practices- rain water harvesting	Project components, implementation schedule, water tariff, water pressure, water meters, HSC, payment facilities explained. It was explained that the project will adequately supply all of Udupi. Pro poor tariffs and grievance mechanism was explained. The CMC is informed of the issues relating to them Details available in the SSMR (July 2019- Jan 2020)
09.09.19	33 &34	Ajjarakadu & Shirabedu	80	13	Preparation of report in English is under progress	NA
18.09.19	15&16	Parakala	62	07	Preparation of report in English is under progress	NA
21.09.19	17&14	Saralebettu& Eshwarnagar	43	10	Preparation of report in English is under progress	NA

03.10.19	18	Manipal	75	23	Preparation of report in English is under progress	NA
04.10.19	09	Sagri	37	08	Preparation of report in English is under progress	NA
	Total		1085	231		21 % of Women Participation

47. 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 has been disseminated through disclosure of final resettlement planning documents by ULB to the affected persons, community leaders, and people's representatives and will be translated into the local language. The draft and final RP is required to be disclosed to affected persons and other stakeholders as per involuntary resettlement principle 9 of ADB SPS and in line with para 49 of the resettlement framework, which specifies the disclosure requirements during SIA. A brief public information dissemination (PID) leaflet containing project details, anticipated involuntary resettlement impact, entitlement options and construction schedule has been printed in Kannada and disseminated to the public. A copy of the PID leaflet prepared for disclosure has been sent to ADB. The resettlement plan is available at prominent Government offices, Ward Councils and ULB offices and will be disclosed on ULB, KUIDFC and ADB websites. A series of town level and ward level consultation meetings are planned across the next few months and people will be informed about the construction schedule. Installation of signage and warning signs by contractors to minimize inconvenience and traffic disturbances during construction will be ensured and is included in the civil works contracts. Pre-construction consultations on the work breakdown structure, with the temporarily affected persons identified through the detailed measurement survey, including affected vulnerable persons and women, is proposed. This is expected to help the affected persons especially women and other vulnerable persons to identify the necessary assistance. Details of these meetings are presented in the SSMR.

48. A series of town level and ward level consultation meetings are planned throughout the duration of project implementation

VI. GRIEVANCE REDRESS MECHANISM

49. 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 presented in appendix 5. It has been 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.

50. A project GRM covers the project 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 APs have access to interact easily.

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

52. There are 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 is a complaint registrar book and complaint boxes at construction site office to enable quick response of grievances/ complaints for urgent matters. The name 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 Safeguards Officer is 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

53. There are several tiers for grievance redress process. Simple grievances for immediate redress will first be resolved at site by the contractor. If unaddressed for up to 7 days the complainants may go to PIU officer in ULB responsible to address 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 the 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.

54. All the grievances that cannot be resolved at ULB/PIU within 15 days will be forwarded to the GRC headed by 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

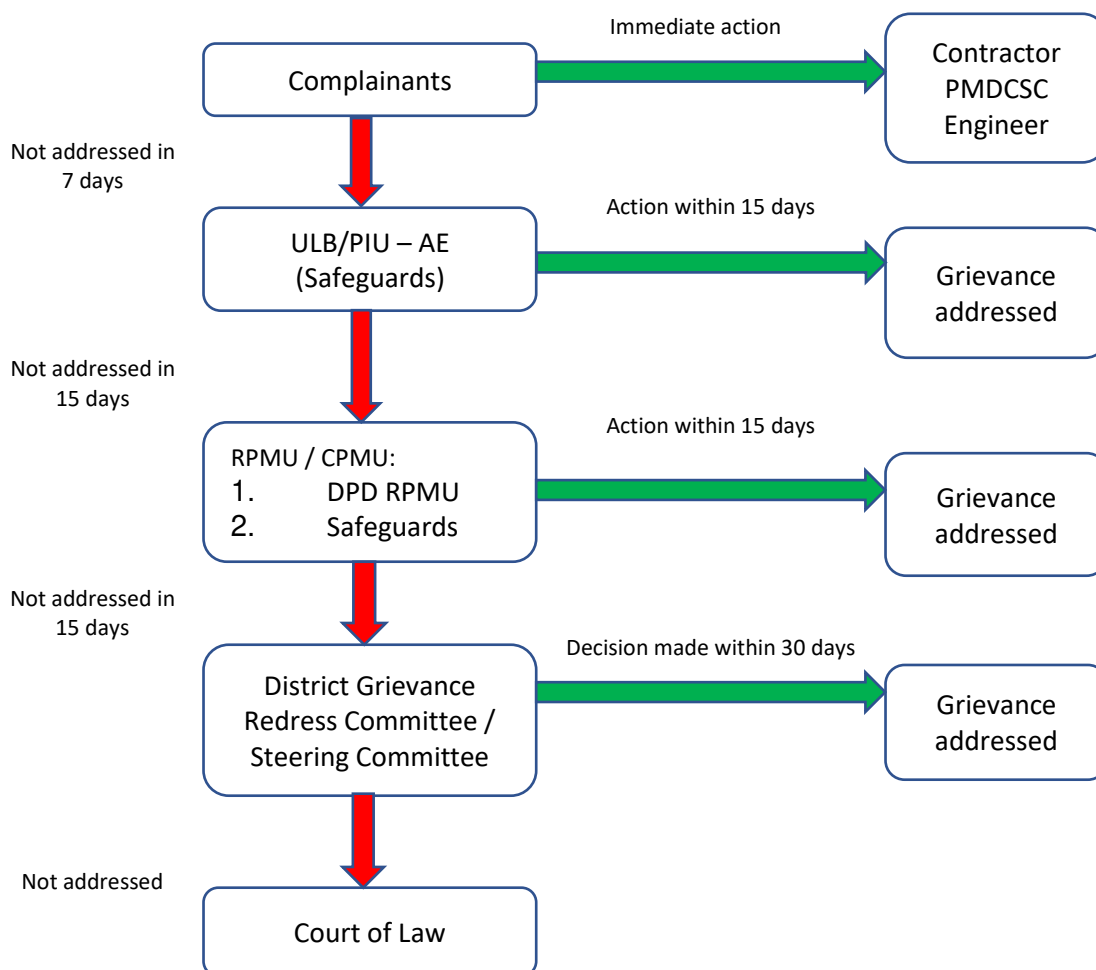
55. For any issues that remain unresolved by the GRC it is referred to DLIC at the District Level. The complainants /DPs can approach the Court of Law at any time during the process.

B. Grievance Redress Committee Composition and Selection of Members

56. The GRC for the project is headed by the Special Land Acquisition Officer/Assistant Commissioner of the concerned subdivision as Chairman of the sub Division with members as follows: (i) ULB Commissioners/ Chief Officers of concerned ULB, (ii) Deputy Project Director member Secretary and Convener, (iii) PMDCSC Engineer, (iv) Affected Community member /NGO, and (v) Social Officer RPMU as member of GRC and will shoulder responsibility of keeping records of grievances/ complaints in details. Safeguards Officer of RPMU will be responsible for coordinating with all GRC members and the displaced persons for grievance redressal.

57. 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.

58. The Grievance Redress Mechanism is shown in the Figure 14.

Figure 14: Grievance Redress Mechanism

DPD = Deputy Project Director, PIU = project implementation unit, PMDCSC = project management design and construction supervision consultant, RPMU = regional project management unit, ULB = urban local body.

59. **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 affected and final outcome will be kept by PIU (with the support of PMDCSC) and submitted to project management unit (PMU).

60. **Information dissemination methods of the GRM.** The PIU, assisted by PMDCSC/CAPRRRC 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.

61. **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.

62. **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.

63. **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.

64. **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.

VIII. POLICY FRAMEWORK AND ENTITLEMENT

65. 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.

66. 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.

67. 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 potentially affected persons on compensation, if eligible as per existing laws/ADB SPS, 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, if eligible as per existing laws/ADB SPS, to affected persons including non-titled persons (e.g., informal dwellers/squatters,

and encroachers) for acquired assets at replacement rates; (vi) payment of compensation, if eligible as per existing laws/ADB SPS, 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.

68. 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

69. The type of loss anticipated under the Udupi Water Supply Project is temporary disruption of livelihood to small businesses.

70. According to ADB SPS 2009 in the context of involuntary resettlement, affected persons are those who are physically displaced— i.e., relocation, loss of residential land, or shelter and/or economically displaced (loss of productive land, structures, assets, access to assets, income sources, or means of livelihood). The absence of formal and legal title to the land does not bar the affected person from receipt of compensation and resettlement assistance from the project. Vulnerable affected persons who are permanently affected are eligible for additional compensation and assistance and are to be accorded priority in employment in project related construction activities.

71. The Entitlement Matrix below summarizes the type of possible loss and corresponding entitlement 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 9: Entitlement Matrix

	Type of Loss	Application	Definition of Entitled Person	Compensation Policy^a	Implementation Issues^b	Responsible Agency^c
1	Temporary disruption of livelihood	Commercial and agricultural activities	Legal titleholders, tenants, leaseholders, employees, hawkers or vendors.	<ol style="list-style-type: none"> 1. 60 days advance notice regarding construction activities, including duration and type of disruption. 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. 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^d 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. 4. Free transport facility, or, one time shifting allowance of Rs.4000 per shift, or, shifting cost in the town, whichever is higher, if required to shift. 5. Vulnerable⁵ households will be given priority in employment in the project construction activities. 	<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 RPMU and ULB will identify alternative temporary sites to the extent possible, for vendors and hawkers to continue economic activity. • RPMU/PMDSC in consultation with the ULB and 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 will be determined on the basis of surveys and will be calculated as 	RPMU in coordination with ULB, PIU and Contractors will identify alternative locations

⁵ Vulnerable households comprise below poverty line households, female-headed households, households with out-of-school/working children, disabled person-headed household, elderly-headed household, landless household, household with no legal title / tenure security, and schedule castes and scheduled tribe households

	Type of Loss	Application	Definition of Entitled Person	Compensation Policy ^a	Implementation Issues ^b	Responsible Agency ^c
					the cost incurred in shifting from and returning back to the same location.	
2	Any other loss not identified			1. Any unanticipated impacts of the project will be documented and mitigated based on the spirit of the principles agreed upon in the Resettlement Framework and the RFCTLARRA 2. Unanticipated involuntary impacts will be documented and mitigated based on the principles provided in the ADB involuntary resettlement Policy.		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.

ADB = Asian Development Bank, DLRC = district level resettlement committee, PIU = project implementation unit, PMDCSC = project management design and construction supervision consultant, PMU = project management unit, RFCTLARRA = Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, RPMU = regional project management unit, ULB = urban local body.

Notes:

(1) 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.

(2) The corporate entitlement matrix for KIUWMIP is presented in the resettlement framework.

^a 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.

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

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

^d 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

72. 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 for loss of income. 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 APs 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. Refer to table 10.

IX. RESETTLEMENT BUDGET

73. The resettlement budget includes potential income losses to small businesses who will experience temporary impacts. The budgetary provision has been updated based on the detailed measurement survey, the detailed design and latest replacement costs. The resettlement budget includes: (i) detailed costs for resettlement assistance for temporary income loss; (ii) source of funding, (iii) administrative costs, and (iv) 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, hiring CAPRRC for resettlement plan implementation.

Table 10: Budgetary Provision for Resettlement Plan Implementation

S. no.	Compensation for type of loss	Quantity	Unit rate ₹	Total Amount ₹	Total Amount (\$@72)	Source of Fund	Remarks
A	Resettlement Cost: Temporary Impact						
1	Income loss for the vendors, if any.	15 days	1500	22,500		PMU to place fund with ULB to be disbursed by ULB	Prior to displacement.
2	Provisional sum towards shifting allowance	LS	10000	30,000			Prior to displacement.
	Subtotal of A			52,500	730		
B	Other costs						
4	Grievance redress, project information disclosure in local language	LS		300,000			GRM costs e.g., meeting/communication related expenses, transport costs for affected persons to attend GRC meetings/hearings will be met by PIU. Any costs related to printing of project information disclosure materials, translation of resettlement plan/ PID leaflets, costs of signages displaying contact details for grievance redress etc. shall borne by PIU.
5	Consultation and Disclosure of RP	LS		200,000			Based on detailed design by DBO contractor
	Subtotal of B			500,000			
		Subtotal of A +B		552,500			
		Contingency @10%		55,250			
		Grand Total		₹607,750	or \$8,440 rounded off to \$8,500		

DBO = design, build, operate, GRM = grievance redress mechanism, PID = Public Information Document, PIU = project implementation unit, PMU = project management unit, ULB = urban local body.

Notes:

(1) Total income of all 3 vendors adds up to ₹1500 per day (collectively). Costs in the updated resettlement plan is based on a comparison of census and socio-economic survey data on income with the prevailing notified minimum wage rate (Rs 445 per day 2018-19 for Karnataka) at the time of compensation payment. Verification of reported income has been based on net income as per income tax returns and on a survey of similar businesses in the vicinity.

(2) 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 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.

(3) 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.

X. INSTITUTIONAL ARRANGEMENTS AND IMPLEMENTATION

A. Institutional Structure and Capacity

74. KUIDFC is the nodal executing agency responsible for implementing KIUWMIP. The KUIDFC is a fully owned GOK company registered under the Companies Act, 1956. In the context of KIUWMIP, KUIDFC has established a PMU at KUIDFC headquarters in Bangalore and RPMU at the District level.

75. For this subproject, ULB of Udupi will be the implementing agency, supported by its PIU to implement subproject components of water supply and waste water including resettlement activities. ULB staff, officers and the commissioner of Udupi 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 SPS, 2009. If required, orientation course should be organised to develop their capacity in understanding and implementing involuntary resettlement activities.

76. The Community Awareness, Participation, Rehabilitation and Resettlement Consultant (CAPRRC) 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 **required**, if any. The Safeguards Officer 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 and Safeguards Officer 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 **permanently affected economically displaced persons and permanently affected vulnerable affected persons** if any due to construction activities.

77. The PMU will be assisted by the SDO 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.

78. 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;

- (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 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, CAPRRRC, 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 CAPRRRC in implementation of the gender equality and social inclusion (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.

79. The Safeguards Officer of regional project management unit 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) Ensure that letter of assurance from ULB / DC for alternate jobs for muster roll employees during period of handover of assets to contractor is obtained;
- (iv) Update the resettlement plans upon the completion of detail design and submit to PMU for onward submission to ADB for review, approval and disclosure;
- (v) 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;
- (vi) Translate and disclose the final resettlement plans/ DDRs into proper language and forms that are accessible to the affected communities/ people;
- (vii) Ensure provision of timely payments by the Municipality to the affected persons before displacement/ impact occurs in sections ready for construction;
- (viii) Ensure alternate jobs are provided to the ULB's muster roll employees in line with the assurance provided;
- (ix) Assist in identification of third party in case of any negotiated settlement/land donation;
- (x) Guide and assist PIUs to ensure that NOCs, land documents, third party certifications as required for each subproject are obtained;
- (xi) Inform ADB of any unanticipated impacts identified during project implementation, prepare the required CAP and implement it;
- (xii) Ensure implementation of project GRM and all grievances are properly addressed;

- (xiii) Conduct regular monitoring and site visits for social safeguard compliance of all subprojects during civil works activities;
- (xiv) Ensure that internal monitoring covers income/livelihood restoration activities and results of monitoring are reported in the semi-annual monitoring report;
- (xv) Monitor the work of CAPRRC on resettlement, community awareness and participation plan (CAPP) and GESI activities; and
- (xvi) Maintain safeguard database, GRM records, key gender results and good practices.

80. 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/livelihood 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; 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.

81. A CAPRRC will be appointed by Government of Karnataka according to the GOK 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, if eligible as per existing laws/ADB SPS, 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) Conduct meaningful consultations with the affected persons and other stakeholders;
- (ix) Assist in identification of the most suitable livelihood option in consultation with each affected person, particularly muster roll employees, and the vulnerable

- affected persons among those temporarily affected if any identified during detailed measurement survey;
- (x) 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 rehabilitation and resettlement (R&R) related issues;
 - (xi) 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
 - (xii) Providing orientation/training to the ULB and Project Officials on Land Acquisition, Rehabilitation and Resettlement Act, 2013 (LARR) and ADB SPS, 2009.

B. Resettlement Plan Implementation

82. 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/ PIUs, and RPMU with the assigned Safeguards Officer as its focal person. Besides, PMU at head office will be responsible for the 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.

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

- (i) Identification of cut-off date (as the date of DMS, which will be disclosed in the town and the affected areas), 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 temporary physical relocation (as required), through consultation process, and identification of eligible displaced persons for economic rehabilitation with the help of providing income restoration trainings;
- (iii) During implementation, the Safeguards Officer of RPMU will review resettlement plan implementation progress. The ULB will be supported by the Safeguards Officer of RPMU/CAPRRRC 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 of RPMU, ULB officials and CAPRRRC will undergo an orientation and training programme 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; and
- (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 programmes 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.

84. The roles and responsibilities of the various institutions/ organisations are listed in the table below.

Table 11: Roles and Responsibilities of Institutions

SI No.	Activities	Responsible Authority/ Agency	Time schedule
Project Preparatory Stage			
1	Finalization of designs/alignments Detailed project design report by finalizing design option to minimize resettlement impact	KUIDFC has appointed PMDCSC to prepare the draft detailed design. The design will be finalized by the DBO contractor.	90 days from date of DBO contractor appointment.
2	Disclosure of final design option Formation of DLIC Consultation/ FGD with displaced persons/ road side hawker/vendors to be affected by temporary impact	(i) PMU to complete formation of DLIC (ii) Depute /appoint designate Safeguards Officer at RPMU (iii) Safeguards Officer/ CAPRRC to start consultation with Land owner/all affected persons with permanent or temporary impact.	Within 90 days from date of preparation of the draft resettlement plan (prior to appointment of DBO contractor).
Resettlement Plan Finalization Stage			

SI No.	Activities	Responsible Authority/ Agency	Time schedule
3	Detailed measurement survey/Census enumeration/SIA survey of DPs for updating resettlement plan, identifying temporary impact, preparation and distribution of photo identity cards if necessary Formal announcement of project cutoff date	Safeguards Officers of RPMU will help ULBs prepare photo Identity cards after verification of affected persons with support of the concerned ULB officials and CAPRRC.	15 days for DMS/census verification during detailed design finalization (simultaneous with activity 1) 15 days for preparation of updated resettlement plan (simultaneous with detailed design finalization /activity 1) and distribution of identity cards as and when necessary.
4	Categorization of all DPs for entitlement eligibility and preparation of micro plan as necessary	Safeguards Officer of RPMU with support of the ULB and CAPRRC to categorize affected persons, including those with temporary impact, as per entitlement eligibility / type of loss and prepare micro plan.	15 days (simultaneous with activity 1)
5	Calculation of replacement costs for losses (in this case, temporary loss of income)	ULB will compute replacement cost of all losses.	During resettlement plan preparation (Activity 3 listed above).
6	Formulating all compensation & assistances for the displaced persons and economic rehabilitation measures, if required Conduct consultation / meeting with the displaced persons for compensation / assistance as per entitlement matrix	ULB to calculate resettlement assistance for disbursement as per micro plan 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 and document any issues discussed.	During resettlement plan preparation (activity 3 listed above).
7	Finalizing compensation and rehabilitation packages and Preparation of updated/ Final resettlement plan	ULB to finalize compensation and resettlement packages, PMDCSC will update resettlement plan during implementation period. PMU to evaluate resettlement plan in the light of ADB compliance and resettlement plan budget and send to ADB for its approval.	During resettlement plan preparation (activity 3 listed above). 15 days

SI No.	Activities	Responsible Authority/ Agency	Time schedule
8	Disclosure of approved 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 Safeguards Officer 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 after approval of resettlement plan by ADB
9	Approval of final resettlement plan	ADB to approve final resettlement plan KUIDFC-PMU to arrange for translation and disclosure of final RP among the displaced persons and stakeholders	15 days 15 days
Resettlement Plan Implementation stage			
10	Payment of resettlement assistance to eligible displaced persons/ including assistance for vulnerable displaced persons for income restoration	KUIDFC will provide fund allocation Disbursement of compensation against loss, if any, by KUIDFC Disbursement of resettlement assistance to be monitored by Safeguards Officer at RPMU level.	15 days for disbursement of assistance
11	Grievance Redress SDO to coordinate with RPMU, assist displaced persons, especially the vulnerable ones to have access to GRC/DLIC	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
12	Monitoring and reporting	PMDSC 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.	Every quarter during resettlement plan implementation Throughout resettlement plan implementation

ADB = Asian Development Bank, DBO = design, build, operate, DLIC = district level Implementation Committee, FGD = focus group discussion, GRC = grievance redress committee, KUIDFC = Karnataka Urban Infrastructure Development and Finance Corporation, PMDCSC = Program Management Design Construction Supervision Consultants, PMU = project management unit, RPMU = regional project management unit, SDO = Social Development Officer, ULB = urban local body.

C. Training and capacity building

85. The safeguards personnel of the project and 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/GOK 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.

86. The PMU will be responsible for development of a training program based on a capacity assessment of target participants (contractor(s), field staff, 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 minimisation 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.

87. To implement all these activities, SDO of PMU and 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 organised for awareness about ADB policy and project implementation in compliance with ADB safeguards policy and a rigorous orientation training will be arranged for the Social Development Officer and Safeguards Officer, 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, followed by a refresher course with experience sharing in resettlement plan implementation. The training component will cover modality of third party certification, documentation and endorsement procedures. It will also cover internal monitoring and preparation of semi-annual social safeguards monitoring reports. The training activity for ULB officials 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. The National Safeguards Specialists 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

88.

89. Project implementation period (civil works) is expected to require 36 months to complete. RP finalisation and implementation will be synchronised with project implementation. **Resettlement Plan implementation** 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 affected sites and sections, where compensation has been paid.

Table 12: Implementation Schedule

[illegible]

ADB = Asian Development Bank, CAPRRC = Community Awareness, Participation, Rehabilitation and Resettlement Consultant, DMS = detailed measurement survey, DLIC = district level implementation committee, GRC = grievance redress committee, PMU = project management unit, RPMU = regional project management unit, ULB = urban local body.

MONITORING AND REPORTING

A. Monitoring

90. 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 temporarily affected persons are compensated; (ii) period of actual disruption along alignment where temporarily affected persons are located; (iii) when incomes of temporarily affected persons recovered to pre-project level; (iv) continued access to vending location by the temporarily affected persons; (v) alternative employment provided to contractual employees on muster roll; and (vi) socio-economic status of affected persons including any vulnerable households among them identified during detailed measurement survey. If impacts are avoided during construction, monitoring will cover impact avoidance, including measures taken during construction for avoidance of impact, photographs of avoided impact and details of consultations with identified affected persons to confirm impact avoidance (with minutes of meetings, photographs and signature sheets). 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 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.

91. 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; and
- (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 displacement.
Feedback of compensation and assistance measures will be taken. This will be part of impact evaluation process that will assess effectiveness of the resettlement plan.

B. Reporting


92. 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.

93. 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, and number of displaced persons capable of reorganizing their economic livelihood; and
- (i) Impact indicators, related to the long-term effects of the project on people's lives, including economic standard sustained or improved, and alternative employment provided to contractual employees on muster roll etc. Compensation for the temporary impact or days of disruption, if any, versus the compensation and days estimated in the Resettlement Plan, will be monitored. These indicators will evaluate the speed with which businesses resumed their work. Details will be reported in the next SSMR.

94. 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 have to be prepared/ submitted by PMU to ADB for review and disclosure.



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CITY MUNICIPAL COUNCIL, UDUPI

ಉಪನಿರ್ದೇಶಕರೇ, 04.01.2017-16

ಬಾಡ್ಡ್ ಮ್ಯಾನೇಜರ್
ಕೆ.ಎಂ.ಎಸ್.ಎಸ್. ಸಿ,
ನಗರಾಭಿವೃದ್ಧಿ ಡಿವಿಷನ್, #22, 1ನೇ ಎಲ್ ಅಡ್ಡರಸ್ತೆ,
ಕೆ.ಎಸ್. ಮಲ್ಟಾಸ್ ರಸ್ತೆ, ಇಂದಿರಾನಗರ, 2ನೇ ಹಂತ,
ಬೆಂಗಳೂರು-560028.


ಮಾನ್ಯರೇ,

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.....

ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಈ ಕೆಳಗಿನ ಸರಿಯಾಗಿ ಸ್ಥಳೀಯ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರ ನಿರ್ಮಿಸಿದ
ಕಾರ್ಯದರ್ಶಿಯಾಗಿದೆ. ಈ ಸ್ಥಳೀಯ ಸಂಬಂಧಿಸಿದ ಆರ್.ಬಿ.ಸಿ (ಪರಿಶೀಲನೆ) ಮತ್ತು ಸಭೆ ಸಭೆ ಒಳಗಡೆಯಾಗಿದೆ.

ಕ್ರ. ಸಂ.	ಯೋಜನೆಗೆ ಬೇಕಾಗಿರುವ ಸ್ಥಳಗಳ ವಿವರಗಳು	ಅರ್ಜಿಗಳ ಪ್ರಮಾಣಿ ನಿರ್ದೇಶ (ಸಂಖ್ಯೆ)	ಸಭೆ ಸಂ.	ಪರಿಶೀಲನೆ ಮತ್ತು ಮೇಲ್ಕಂಡದ ಹಂತ
1	ಮೇಲ್ಕಂಡ-75 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	10.00	412/2B	ಉದ್ಭವಿಸಿದ ಸಭೆ
2	ಮೇಲ್ಕಂಡ- ಮುಂದಿನ ಕೆಳಗೆ ಹತ್ತಿರ 3 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	5.00	51/P1-P1	ಉದ್ಭವಿಸಿದ ಸಭೆ
3	ಕೆ.ಎಂ.ಎಸ್. ರಾಮಣ್ಣ ಕೆ.ಎಸ್. ಸುಬ್ರಹ್ಮಣ್ಯ ಹತ್ತಿರ 3 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	5.50	140/3CP-1	ಉದ್ಭವಿಸಿದ ಸಭೆ
4	ಇಂದಿರಾ 5 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	14.50	67/2B	ಉದ್ಭವಿಸಿದ ಸಭೆ
5	ಮುಂದಿನ 75 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	10.00	125/2	ಉದ್ಭವಿಸಿದ ಸಭೆ
6	ಕೆ.ಎಂ.ಎಸ್. 10 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	25.00	210/3	ಉದ್ಭವಿಸಿದ ಸಭೆ
7	ಸಂಕೇತಕ್ಕೆ 16 ಬಗ್ಗೆ ರೀಬರ್ ಸಾಮರ್ಥ್ಯದ ಮೇಲ್ಕಂಡದ ಕುರಿತು ಸಂಸ್ಥಾಪಕರಾಗಿದ್ದು	30.00	243/0	ಉದ್ಭವಿಸಿದ ಸಭೆ

ಅಧ್ಯಕ್ಷರು : 0820-2593363
ಸಹಾಯಕರರು : 0820-2520446
ಮಂಡಳಿ : ಕಛೇರಿ : 0820-2520306
ಫ್ಯಾಕ್ಸ್ : 0820-2593364
0820-2524236

ತಮ್ಮ ನಿರ್ದೇಶನ

ಸಹಾಯಕರರು
ಉದ್ಭವಿಸಿದ ಸಭೆ

ಪ್ರತಿಯನ್ನು:

- ಉಪಯೋಗದ ನಿರ್ದೇಶಕರು, KIUWMIP, ಮುಂಬರುವ ಇಂದಿನ ಮಾಹಿತಿಗಾಗಿ.
- ಮೇಲ್ಕಂಡ ರೀಬರ್, M/s. GKW Consult GmbH, ಮುಂಬರುವ ಇಂದಿನ ಮಾಹಿತಿಗಾಗಿ.

ಮತ್ತು ನಿರ್ದೇಶಕರ ಕಛೇರಿ 0-2593363, ಮುಂದಿನ, ಮುಂದಿನ ಕುರಿತು.

Translation

Udupi ULB Municipal Commissioner's letter to Task manager, KUIDFC
City Municipal Council

Udupi- 576101, Udupi District

Telephone: Office- Municipal Commissioner 0820-2520446 Office- 0820-2520306/ 2593364

Date: 17 August 2017

To,
 The Task Manager
 KUIDFC
 Bangalore
 Sir,

Sub: Reserving the Government land for construction of OHT under ADB assisted Jalasiri second stage in Udupi CMC limits

With reference to the above, the following Government lands have been reserved for construction of OHTs. RTC and survey maps related to the following lands also enclosed.

SI. No	Details of the lands required for the Project	Size of the land expected (Cents)	Survey number	Name of the title holder
1	7.5 lakh liters capacity OHT near Manipal	10.00	412/2B	Udupi CMC
2	3 lakh liters capacity OHT near Mannampalla lake	5.00	51/P1-P1	Udupi CMC
3	3lakh liters capacity OHT at Kolambe Ammanni Rammanna Shetty Hall	5.50	140/3CP	Udupi CMC
4	6 lakh liters capacity OHT at Indrali	14.50	67/2B	Udupi CMC
5	7.5 lakh liters capacity OHT at Manchi	10.00	125/2	Udupi CMC
6	10 lakh liters capacity OHT at Kakkunje	25.00	210/3	Udupi CMC
7	16 lakh liters capacity OHT at Santhekatte	30.00	243/0	Udupi CMC

Yours faithfully
 Chief Officer
 CMC Udupi

Copy submitted to: 1. Deputy Project Director KIUMIP Mangalore
 2.GKW Consult GmbH Dongarakeri Mangalore

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

NOTE

TALUK: HOKRI : VILLAGE : SURVEY NUMBER : VALUATION 10/09/2017
 :ಹುರುಡಿ :ಹುರುಡಿ :ಬಿಡಲ್ 412/*/28 18/4842 To The Date:

LAND DETAILS OWNER DETAILS CULTIVATOR DETAILS

LAND DETAILS

1. SURVEY NUMBER 412 *	3. EXTENT OF LAND	ACRE GUNTA	4. REVENUE Rs. PAISE
	TOTAL EXTENT	1.00.00.00	(A) LAND REVENUE 0.80
	KARAB(A)		(B) JODI
	KARAB(B)		(C) CHOKKES
	REMAINING	1.00.00.00	(D) WATER RATE
2. HISSAT 2B		TOTAL	0.80
5. SOIL TYPE 6000 005	7. TREE DETAILS	8. IRRIGATION DETAILS AS PER EXTENT	
	NAME	NO	S.NO
			WATER SOURCE
			KHARIF AC GUN
			RABE AC GUN
			GARDEN AC GUN
			TOTAL AC GUN

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11/14/2017

ABORT LK

Proposed OHT AT Manipal: For Zone-3

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO

16

TALUK: HOBBI: VILLAGE: SURVEY
:ಉಡುಪಿ ಉಡುಪಿ ಶಿವಳ್ಳಿ: NUMBER :
412/*/2B

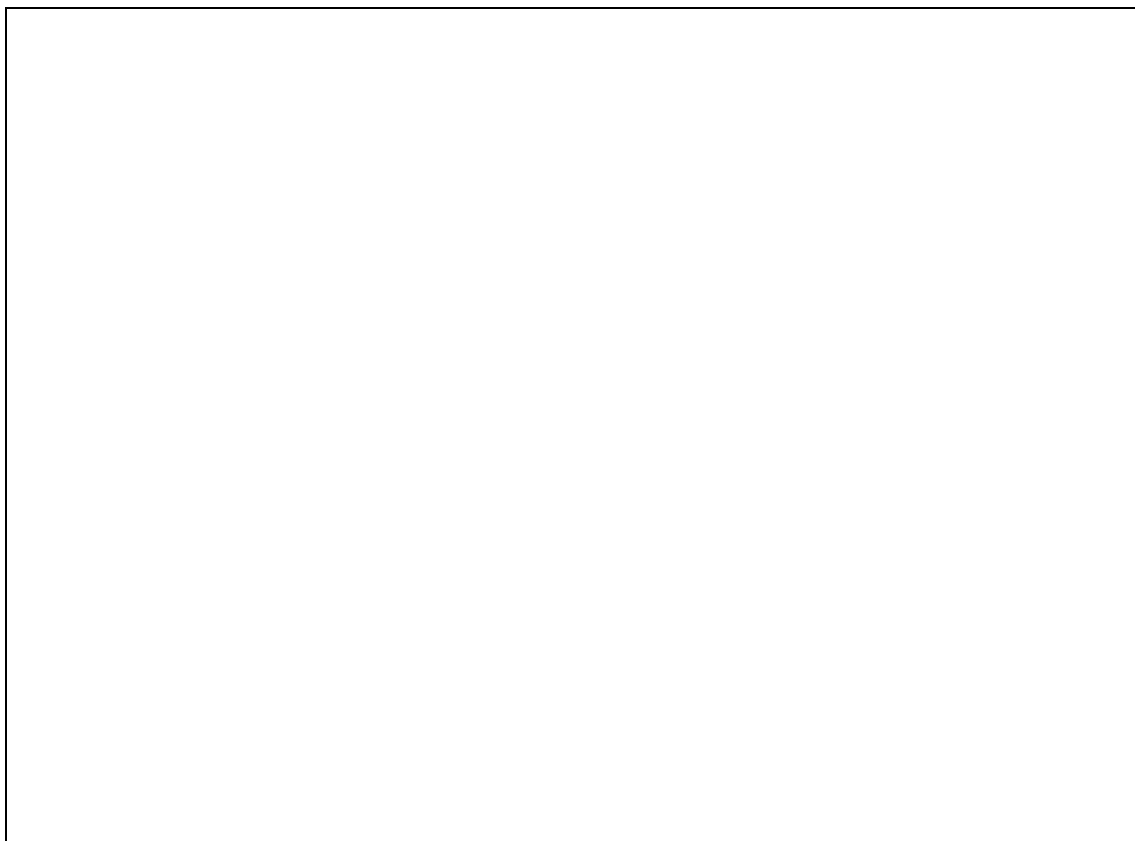
Valid from 15/05/2017
18:49:42 To This Date

LAND DETAILS OWNER DETAILS CULTIVATOR DETAILS

OWNER DETAILS

9. OWNER NAME, FATHER NAME AND ADDRESS	EXTENT AC. GUN	KHATA NO.	10. ACQUISITION TYPE AND DESCRIPTION	11. OTHER RIGHTS AND LIABILITIES	
				RIGHTS	LIABILITIES
*ಸರಣರ -	0.64.00.000			ಶಿವಳ್ಳಿ, ಪಂಚಾಯತ್, ಎಲಿವೇಷನ್, ಮಾನ್ಯ DCಯವರ ಆದೇಶಸಂಖ್ಯೆ LNDPDRCR 158/2015-16 ದಿನಾಂಕ 05/09/2015ರಂತೆ 0.22 ಎಕ್ರೆ ಪರಿಮಿತಿಯ ಮೇಲೆ ಪಂಚಾಯತ್ ಇದರ ಕಟ್ಟಡ ಕಾರ್ಯಕ್ರಮ, ಪರಿವಾಹನ ಮತ್ತು ಪರಿವೈಯಕ್ತಿಕ ಸೇವೆಗಳ ಇಲಾಖೆ ಇದರ ಹೆಸರಿನಲ್ಲಿ, ಇದ್ದು, ದೃಢೀಕರಿಸಿದೆ.	
*ಸರಣರ -	0.10.00.000			ಮಾನ್ಯ DCಯವರ ಆದೇಶಸಂಖ್ಯೆ LNDPDRCR 108/2016-17 ದಿನಾಂಕ 04/07/2016ರಂತೆ 0.10 ಎಕ್ರೆ ಕೆರೆಮೇಲಿನಲ್ಲಿ 5 ಎಕರೆಗಳಿಗೆ ಹಂಚಿದ OHT ಹಾಗೂ WTP ಯೋಜನೆಗೆ ಸೇರಿದವು ಇದರ ಹೆಸರಿನಲ್ಲಿ, ಇದರ ಹೆಸರಿನಲ್ಲಿ, ಇದ್ದು, ದೃಢೀಕರಿಸಿದೆ.	
*ಸರಣರ -	0.26.00.000			ಮಾನ್ಯ DCಯವರ ಆದೇಶಸಂಖ್ಯೆ LND PDRCR 218/2017 ದಿನಾಂಕ 22/08/2017ರಂತೆ 0.26 ಎಕ್ರೆ, ಮೌಲಾನಾ ಅಬ್ದುಲ್ ಕರೀಮ ವಿವೇಕಾನಂದ ಹಿಂದುಳಿದ ವರ್ಗಗಳ ಹಕ್ಕು ಕಲ್ಪನೆ ಯೋಜನೆ ಇದರ ಹೆಸರಿನಲ್ಲಿ, ಇದ್ದು, ದೃಢೀಕರಿಸಿದೆ.	

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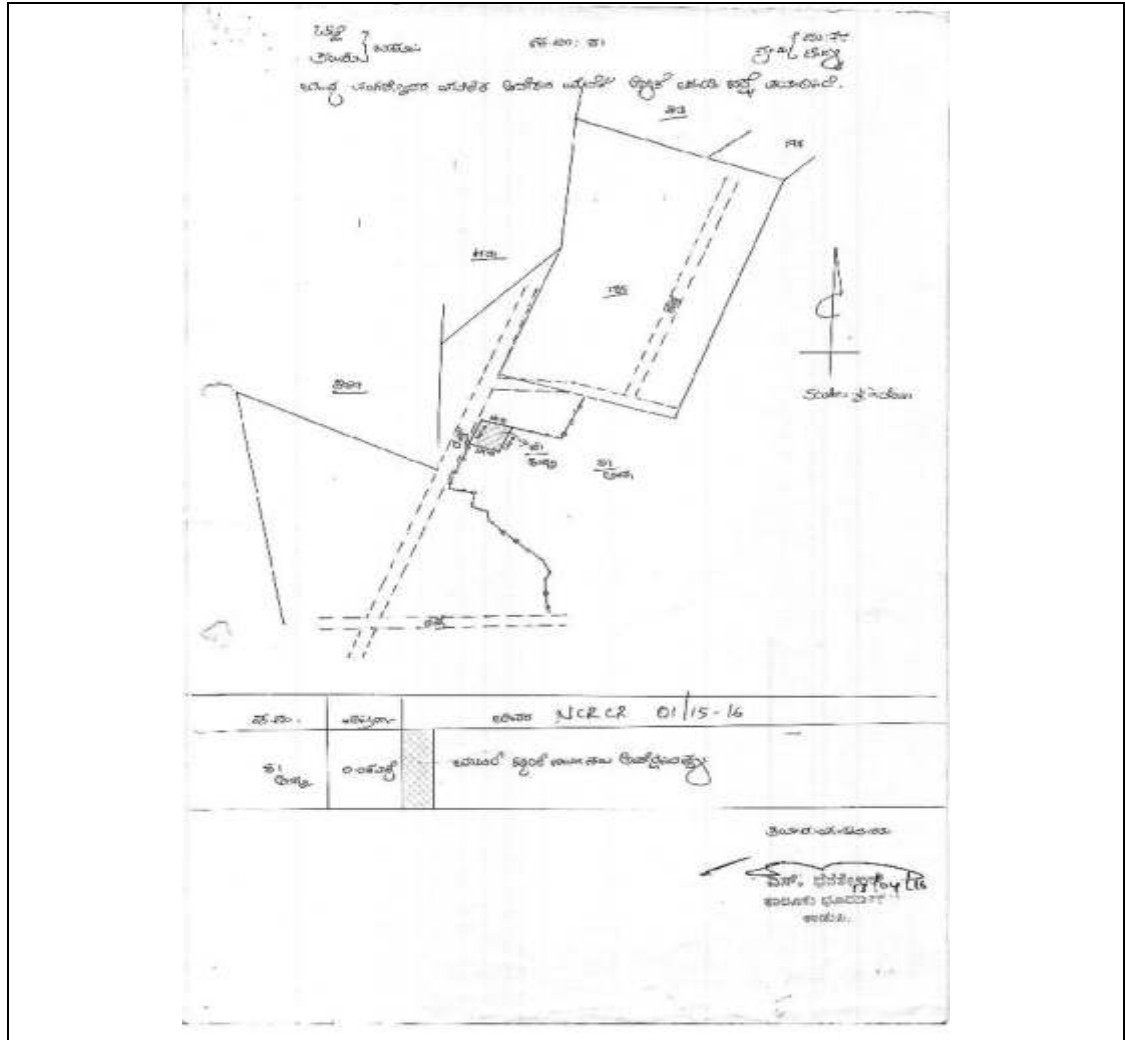


Translation

Owner Name, Father Name and Address	Rights
* Government	As per D.C's order No LNDPDRCR 158/2015-16 dated 5 September 2015, 0.22 acres of land reserved in the name of Animal Husbandry Department for veterinary hospital Manipal
* Government ¹	As per D.C's order No. LNDPDRCR 108/2016-17 dated 4 July 2016, 0.10 Acres of land reserved in the name of Directorate of Municipal Administration for Udupi CMC for construction of OHT and WTP project under KUIDFC second stage.
* Government	As per D.C's order No. LNDPDRCR 218/2016-17 dated 22 August 2017, 0.26 Acres of land reserved in the name of Backward Classes and Minorities Department for construction of Maulana Azad Bhavan.

2. Map and Land Records of proposed OHT Site near Mannapalla Lake

According to the RTC below, as per the Deputy Commissioner's order No LNDPDRCR 108/2016-17 dated 04 July 2016 the land is reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.



RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

Name: _____

Taluk: Hobli: Village: Survey Number: 51/P1-1

Value: 26/06/2018 18:02:00 To To: Date:

Land Details: Owner Details: Cultivation Details:

LAND DETAILS

1. Survey Number	2. Extent of Land	3. Area Details	4. Revenue Rs. Paid
51	TOTAL EXTENT	1.24.11.00	(a) Land Revenue 93.34
	Kanah(a)		(c) Jom
	Kanah(b)		(d) Cusom
	REMAINING	1.24.11.00	(e) Water Rate
3. Hissat P1-1			TOTAL 93.34

5. Soil Type	7. Tree Details	8. Irrigation Details x x x per Extent
	Name: No. Size	Water Pump Ac. Road Ac. Garden Ac. Total Ac. Gun

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RTC for Manpalla Lake Site

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

Name: _____

Taluk: Hobli: Village: Survey Number: 51/P1-1

Value: 26/06/2018 18:02:00 To To: Date:

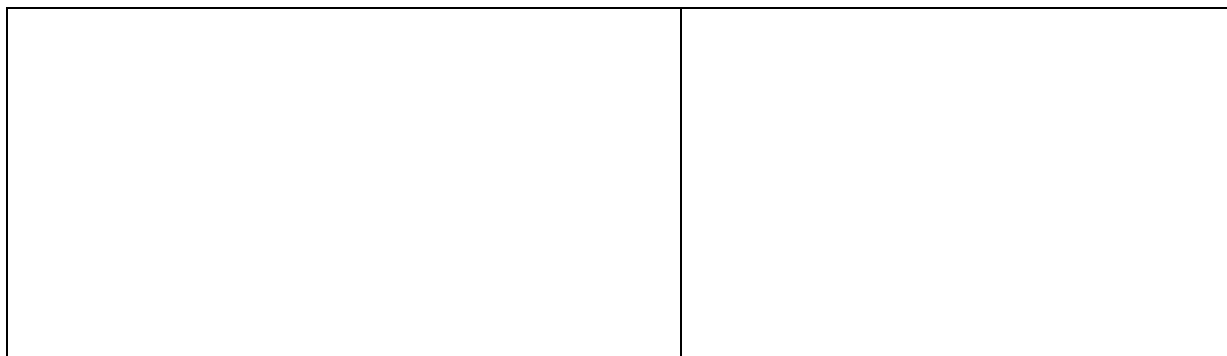
Land Details: Owner Details: Cultivation Details:

LAND DETAILS

1. Survey Number	2. Extent of Land	3. Area Details	4. Revenue Rs. Paid
51	TOTAL EXTENT	1.24.11.00	(a) Land Revenue 93.34
	Kanah(a)		(c) Jom
	Kanah(b)		(d) Cusom
	REMAINING	1.24.11.00	(e) Water Rate
3. Hissat P1-1			TOTAL 93.34

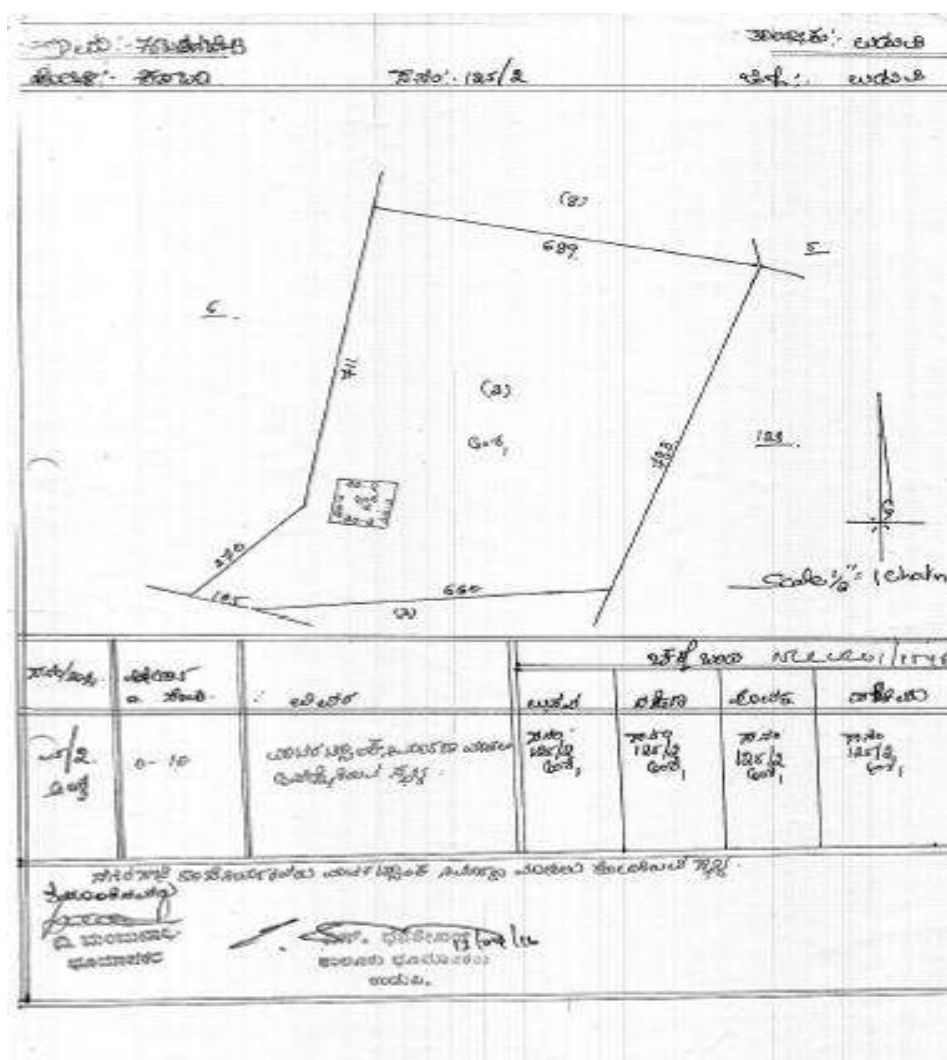
5. Soil Type	7. Tree Details	8. Irrigation Details x x x per Extent
	Name: No. Size	Water Pump Ac. Road Ac. Garden Ac. Total Ac. Gun

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3. Map and Land Record of proposed OHT Site at Manchi

As per the RTC below, the property belongs to Udupi CMC

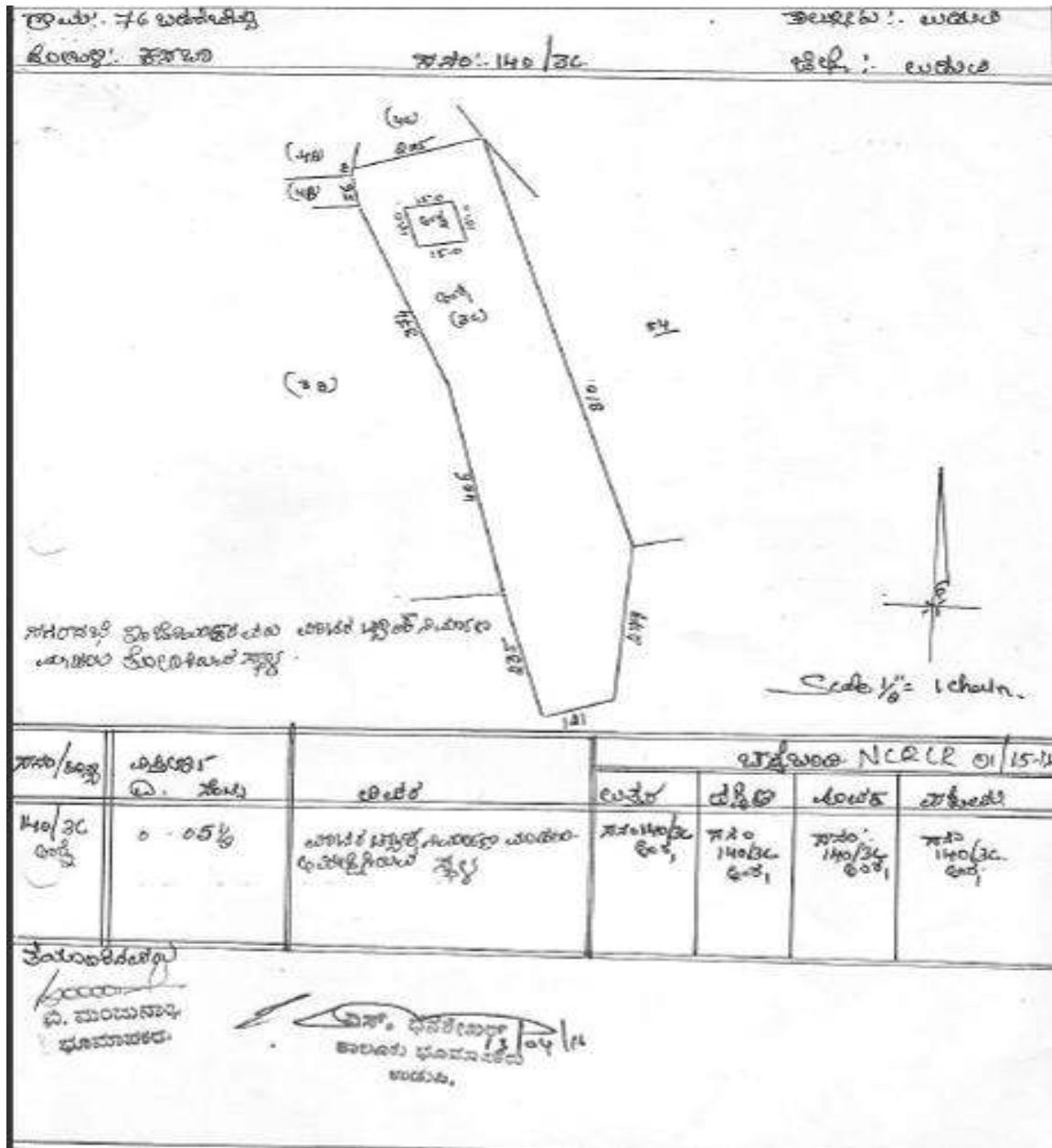


Translation:

Sl. No	Property details	Remarks
	Survey No 125/2(Part), 76 Badagabettu village	
1	Name of the property owner: Udupi CMC	
2	Address of the owner: K.M Road Udupi	
3	Land possession: Same (Udupi CMC)	
8	Extent: 0.52 Acres	
12	Details of transfer of land: Registered as per Udupi Development Authorities letter No: 3-358-3/1993-94 dated 21 October 1995	
		33. To whom the property has been transferred: Udupi CMC

4. Map and Land Records of proposed OHT Site near Ammanni Ramanna Shetty Hall, Kolambe

As per the RTC below, the Deputy Commissioner's order No LNDPDRCR 108/2016-17 dated 04 July 2016 has reserved the site in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.



RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C.) FORM NO 16

TALUK: HOSUR VILLAGE: 76 Survey Number: 140/3CP-1

LAND DETAILS

1. Survey Number	2. Extent or Area	3. Nature of Land	4. Rights	5. Part
140	1.96.10.00	(1) Land	(1) Land	
		(2) Water	(2) Water	
		(3) Other	(3) Other	
	1.96.10.00	(4) Water	(4) Water	
		(5) Other	(5) Other	
		(6) Other	(6) Other	
		(7) Other	(7) Other	
		(8) Other	(8) Other	
		(9) Other	(9) Other	
		(10) Other	(10) Other	
		(11) Other	(11) Other	
		(12) Other	(12) Other	
		(13) Other	(13) Other	
		(14) Other	(14) Other	
		(15) Other	(15) Other	
		(16) Other	(16) Other	
		(17) Other	(17) Other	
		(18) Other	(18) Other	
		(19) Other	(19) Other	
		(20) Other	(20) Other	
		(21) Other	(21) Other	
		(22) Other	(22) Other	
		(23) Other	(23) Other	
		(24) Other	(24) Other	
		(25) Other	(25) Other	
		(26) Other	(26) Other	
		(27) Other	(27) Other	
		(28) Other	(28) Other	
		(29) Other	(29) Other	
		(30) Other	(30) Other	
		(31) Other	(31) Other	
		(32) Other	(32) Other	
		(33) Other	(33) Other	
		(34) Other	(34) Other	
		(35) Other	(35) Other	
		(36) Other	(36) Other	
		(37) Other	(37) Other	
		(38) Other	(38) Other	
		(39) Other	(39) Other	
		(40) Other	(40) Other	
		(41) Other	(41) Other	
		(42) Other	(42) Other	
		(43) Other	(43) Other	
		(44) Other	(44) Other	
		(45) Other	(45) Other	
		(46) Other	(46) Other	
		(47) Other	(47) Other	
		(48) Other	(48) Other	
		(49) Other	(49) Other	
		(50) Other	(50) Other	
		(51) Other	(51) Other	
		(52) Other	(52) Other	
		(53) Other	(53) Other	
		(54) Other	(54) Other	
		(55) Other	(55) Other	
		(56) Other	(56) Other	
		(57) Other	(57) Other	
		(58) Other	(58) Other	
		(59) Other	(59) Other	
		(60) Other	(60) Other	
		(61) Other	(61) Other	
		(62) Other	(62) Other	
		(63) Other	(63) Other	
		(64) Other	(64) Other	
		(65) Other	(65) Other	
		(66) Other	(66) Other	
		(67) Other	(67) Other	
		(68) Other	(68) Other	
		(69) Other	(69) Other	
		(70) Other	(70) Other	
		(71) Other	(71) Other	
		(72) Other	(72) Other	
		(73) Other	(73) Other	
		(74) Other	(74) Other	
		(75) Other	(75) Other	
		(76) Other	(76) Other	
		(77) Other	(77) Other	
		(78) Other	(78) Other	
		(79) Other	(79) Other	
		(80) Other	(80) Other	
		(81) Other	(81) Other	
		(82) Other	(82) Other	
		(83) Other	(83) Other	
		(84) Other	(84) Other	
		(85) Other	(85) Other	
		(86) Other	(86) Other	
		(87) Other	(87) Other	
		(88) Other	(88) Other	
		(89) Other	(89) Other	
		(90) Other	(90) Other	
		(91) Other	(91) Other	
		(92) Other	(92) Other	
		(93) Other	(93) Other	
		(94) Other	(94) Other	
		(95) Other	(95) Other	
		(96) Other	(96) Other	
		(97) Other	(97) Other	
		(98) Other	(98) Other	
		(99) Other	(99) Other	
		(100) Other	(100) Other	

OWNER DETAILS

1. Owner Name, Father Name and Address	2. Extent or Area	3. Nature of Land	4. Rights	5. Part
	1.72.60.000			
	0.04.30.000			
	0.04.30.000			
	0.16.90.600			

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C.) FORM NO 16

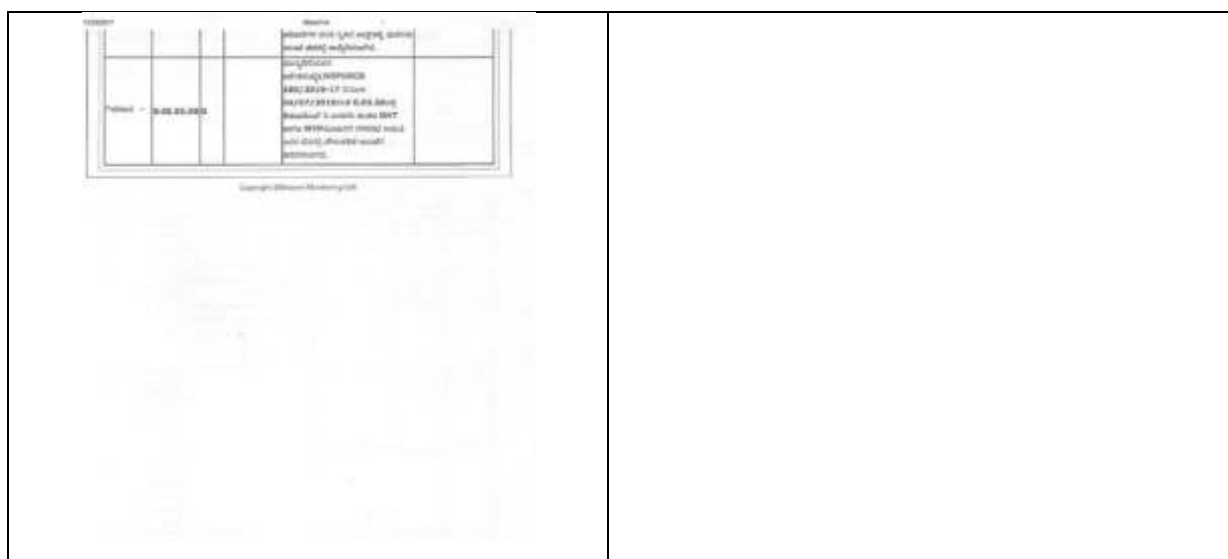
TALUK: HOSUR VILLAGE: 76 Survey Number: 140/3CP-1

OWNER DETAILS

1. Owner Name, Father Name and Address	2. Extent or Area	3. Nature of Land	4. Rights	5. Part
	1.72.60.000			
	0.04.30.000			
	0.04.30.000			
	0.16.90.600			

RTC Documents for Kolambe Site

Owner Name, Father Name and Address	Rights
Government	As per Deputy Commissioner's order No LNDPDRCR 108/2016-17 dated 04 July 2016 reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.



Owner Name, Father Name and Address	Rights
Government	As per Deputy Commissioner's order No LNDPDRCR 109/2016-17 dated 04 July 2016 reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.

5. Map and Land Records of proposed OHT Site at Kakunje

According to the RTC below, as per Deputy Commissioner's order No LNDPDRCR 107/2016-17 dated 04 July 2016 the site is reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

TALUK: HOBLI: VILLAGE: SURVEY NUMBER: 210/1/3
 ಉಡುಪಿ ಗುಡುಪ ಶಿವಲಿ 210/1/3
 175200 To Tal. Date

LAND DETAILS: OWNER DETAILS: CULTIVATOR DETAILS:

LAND DETAILS

1. Survey Number	2. Extent of Land	3. Area Gorta	4. Revenue Rs. Panna
210	Total Extent	0.03.00.00	(a) Land Revenue 0.75
	Kanara(a)		(c) Land
	Kanara(b)		(c) Crops
	Remaining	0.03.00.00	(a) Water Rate
2. Hissat 3			Total 0.75
5. Soil Type	7. Title Details	8. Landwater Details as per Extent	
ಮುಖ್ಯ ಭೂಮಿ	Name	Water Source	Kanara Ar
	No. S. No.	Water	Land
		Rate	Garden
		Ar. Gun	Ar. Gun
			Total
			Ar. Gun

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RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

TALUK: HOBLI: VILLAGE: SURVEY NUMBER: 210/1/3
 ಉಡುಪಿ ಗುಡುಪ ಶಿವಲಿ 210/1/3
 175200 To Tal. Date

LAND DETAILS: OWNER DETAILS: CULTIVATOR DETAILS:

OWNER DETAILS

9. Owner Name, Father Name and Address	10. Extent	11. Khasra No.	12. Acquisition Type and Description	13. Other Rights and Liabilities
ಮುಖ್ಯ ಭೂಮಿ	0.07.00.00		LR 786/2004-2005 ರಿಂದ 01/01/2005	LR 786/2004-2005 ರಿಂದ 01/01/2005
ಮುಖ್ಯ ಭೂಮಿ	0.01.00.00	3353	LR 786/2004-2005 ರಿಂದ 01/01/2005	LR 786/2004-2005 ರಿಂದ 01/01/2005
ಮುಖ್ಯ ಭೂಮಿ	0.25.00.00		LR 786/2004-2005 ರಿಂದ 01/01/2005	LR 786/2004-2005 ರಿಂದ 01/01/2005

Translation:

Owner Name, Father Name and Address	Rights
Government	As per Deputy Commissioner's order No LNDPDRCR 107/2016-17 dated 04 July 2016 reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.

10140817

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO. 1

TALUK: HOBLI: VILLAGE: SURVEY NUMBER: VALUE FROM 06/05/2016
:ಉಡುಪಿ :ಉಡುಪಿ :ಶಿವಳ್ಳಿ : 67/*/28 : 16.31.00 To Till Date

LAND DETAILS OWNER DETAILS CULTIVATOR DETAILS

LAND DETAILS

1. SURVEY NUMBER	3. EXTENT OF LAND	ACR. GUNTA	4. REVENUE	RS. PAISE
67	TOTAL	1.60.00.00	(a) LAND	
			(b) RENT	
			(c) CHARGE	
	REMAINING	1.60.00.00	(d) WATER	
			(e) RATE	
2. HISSA NO.	TOTAL			

5. SOIL TYPE

7. TREE DETAILS	8. IRRIGATION DETAILS AS PER EXTENT							
	NAME	HOS	S.NO.	WATER SOURCE	IRRIG. AC	RATE AC	GARDEN AC	TOTAL AC
					Gun	Ac Gun	Ac Gun	Ac Gun

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10140817

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO. 16

TALUK: HOBLI: VILLAGE: SURVEY NUMBER: VALUE FROM 06/05/2016
:ಉಡುಪಿ :ಉಡುಪಿ :ಶಿವಳ್ಳಿ : 67/*/28 : 16.31.00 To Till Date

LAND DETAILS OWNER DETAILS CULTIVATOR DETAILS

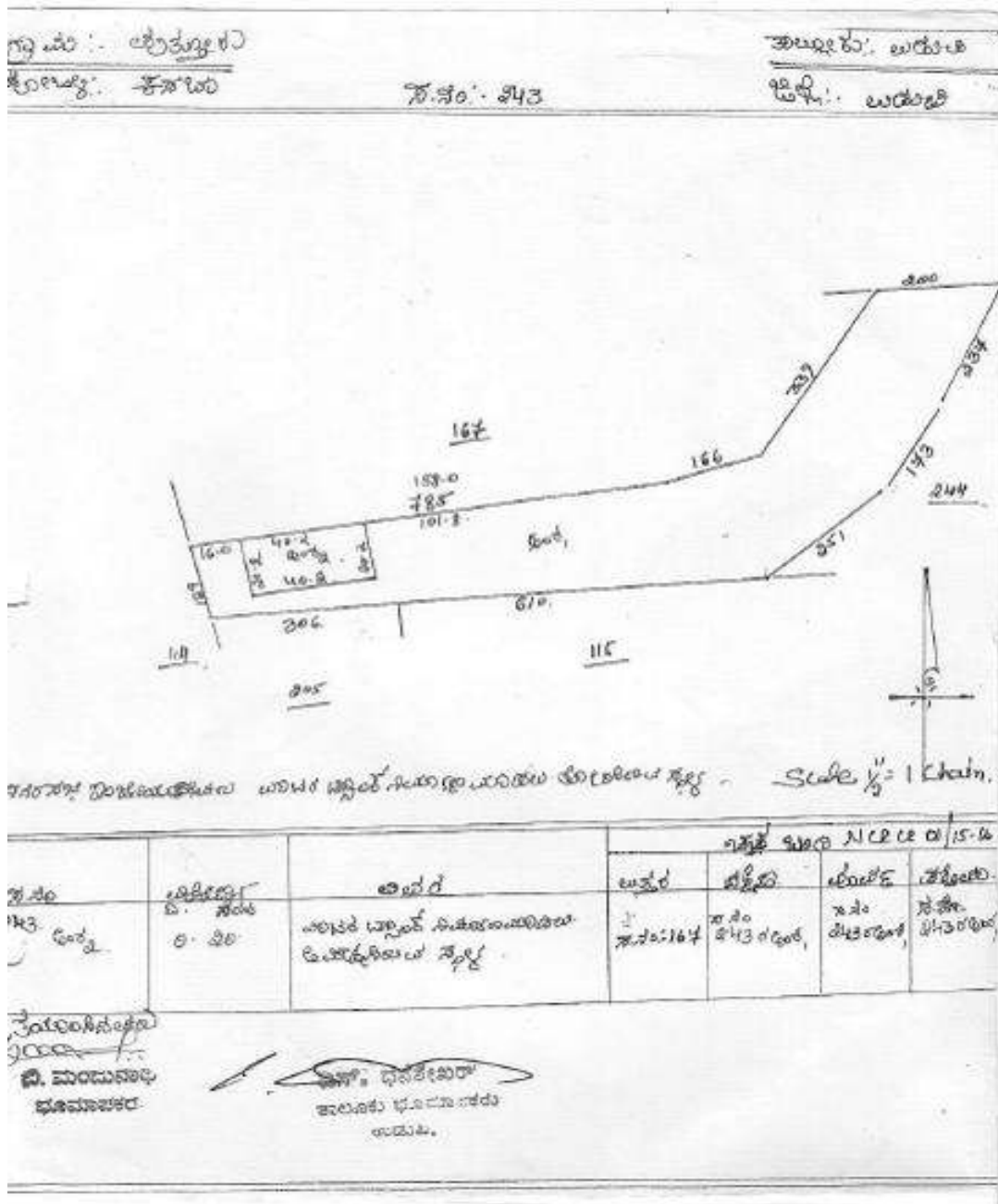
OWNER DETAILS

9. OWNER NAME, FATHER NAME AND ADDRESS	EXTENT AC. GUN	10. ACQUISITION TYPE AND DESCRIPTION	11. OTHER RIGHTS AND LIABILITIES
*ಸರಕಾರ -	1.45.50.000		ಸರ್ಕಾರಿ ಉಡುಪಿ ನಗರ ಸಭೆಗೆ ಒದಗಿಸಲಾಗಿದೆ *
*ಸರಕಾರ -	0.14.50.000		ಮಾನ್ಯ DCCಯವರ ಆದೇಶಸಂಖ್ಯೆ LNDPDRCR 108/2016-17 ದಿನಾಂಕ 04/07/2016ರಂತೆ 0.14.50ಎಕರೆ ಕಿರುಬಯಲಿನಲ್ಲಿ ಎರಡನೇ ಹಂತದ OHT ಸ್ಥಾಪನೆ, WTPಯೋಜನೆಯಲ್ಲಿ ಸಂಗ್ರಹಣೆ ಉಡುಪಿ ಇವರ ಹೆಸರಿನಲ್ಲಿ ಸರ್ಕಾರದಿಂದ ಇದರಿಸಲಾಗಿದೆ.

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Owner Name, Father Name and Address	Rights
Government	As per Deputy Commissioner's order No LNDPDRCR 108/2016-17 dated 04 July 2016 reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.

7. Map and Land Records of proposed OHT Site at Santhekate



10/08/2017

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

TALUK HOBLI : VILLAGE : SURVEY NUMBER : 243/1/0

LAND DETAILS

1. SURVEY NUMBER	2. EXTENT OF LAND	3. ACRES GUNTA	4. REVENUE	5. R. PAISE
243	TOTAL EXTENT	2.40.00.00	(A) LAND REVENUE	
	KARAR(A)		(B) OTHER	
	KARAR(B)		(C) OTHER	
	REMAINING	2.40.00.00	(D) WATER RATES	
	TOTAL			

2. HIRAJI 6

3. SOIL TYPE

4. T. T. DETAILS

5. IRRIGATION DETAILS AS PER EXTENT

NAME	NOS	S. NO.	WATER SOURCE	KARAR AC	PAISE	GUNTA	AC	GUNTA	TOTAL AC	GUNTA

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10/08/2017

RECORDS OF RIGHTS, TENANCY AND CROPS (R.T.C) FORM NO 16

TALUK HOBLI : VILLAGE : SURVEY NUMBER : 243/1/0

LAND DETAILS

OWNER DETAILS

9. OWNER NAME, FATHER NAME AND ADDRESS	EXTENT AC GUN	10. ACQUISITION TYPE AND DESCRIPTION	11. OTHER RIGHTS AND LIABILITY
*adwad -	2.10.00.000		
*adwad -	0.30.00.000		ಬಾಂಧವರ ಲೆಕ್ಕದಲ್ಲಿ LNDPDRCR 110/2016-17 ದಿನಾಂಕ 04/07/2016ರಂತೆ 0.30ಎಕರೆ ಇರುವ OHT ಮತ್ತು WTP ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದ ಉಳಿದ ಭಾಗವು ಸರ್ಕಾರೀ ಆಸ್ತಿ.

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Translation:

Owner Name, Father Name and Address	Rights
Government	As per Deputy Commissioner's order No LNDPDRCR 110/2016-17 dated 04 July 2016 reserved in the name of Udupi CMC for Directorate of Municipal Administration for implementation of KUIDFC second stage OHT and WTP.

**APPENDIX 2- CONSULTATIONS/DISCUSSION WITH STAKEHOLDERS/
COMMUNITY ALONG THE CLEAR WATER FEEDER MAINS AND DISTRIBUTION
ALIGNMENT**

Name of the ULB: City Municipal Council Udupi
Project components: 24 x 7 water supply for Udupi town
Water supply sub project: Laying of clear water feeder main pipes, water supply distribution network pipe lines and construction of overhead tanks in Udupi town
Date: 9 August 2017

Discussions with stakeholders was conducted along pipe alignment (clear water and distribution) and the surroundings of the seven proposed OHTs'. The areas around the veterinary hospital, Ananth Nagar, Kakkunje, Santhekatte, Kukkikatte, Kolambe and Indrali have clear water feeder mains connecting to proposed OHT's which will connect to the distribution network. The other areas (Kunjibettu, Manchi etc) will be served by a distribution network).

Sl. No	Name and address of the person consulted	Contact No	Present condition of water supply	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	Suggestions for the proposed project
1	Mrs. Lalitha W/o Sathish Anganawadi Teacher, Anganawadi centre Adarsha Nagar-2 Near Veterinary Hospital Manipal	9482252922	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
2	Ms. Swathi D/o Kumar Veterinary Hospital Manipal	9448134852	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
3	Mr. Amith S/o Alfans D'souza Ananth Nagar 2 nd Stage Manipal	9008759342	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
4	Mr. Ramanda Nayak S/o Raghunatha Nayak	9880041374	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
5	Mr. Fieem S/o Kayyam Ananth Nagar	9663039865	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.

Sl. No	Name and address of the person consulted	Contact No	Present condition of water supply	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	Suggestions for the proposed project
6	Mrs. Shalini Varnekar W/o Ramakanth Varnekar Door No 129/16A Ananth Nagar Manipal	8277032878	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
7	Mr. Vijaya Suvarna S/o Narayana Bangera Sri Devi Nagara Kakkunje Kunjibettu Post Shivalli Village Udupi	9844952723	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as an earliest.
8	Mr. Sunil Shetty S/o Laxman Shetty Sri. Durga Nilaya Door No 11-3B Post Santhekatte Ambagilu Udupi	8971150687	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as an earliest.
9	Mr. Ganesh N Suvarna S/o Narayana Bangera Devi Nagara Kunjibettu Post Shivalli Village Udupi	9880274732	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
10	Mrs. Lalitha W/o Bhaskar Poojari Mathrushri Nilaya Shivalli village Kunjibettu Post Udupi	9901622684	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
11	Mr. Srinivas Acharya S/o Padmanabha Acharya Post Kunjibettu Shivalli village Udupi	9632475277	Daily 6AM to 10.30 AM	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
12	Mr. Sathish Palan S/o Appu	9845387100	No water supply	24X7 water supply	Yes	No	Project need to be

Sl. No	Name and address of the person consulted	Contact No	Present condition of water supply	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	Suggestions for the proposed project
	Taxi stand Santhekatte Udupi		from the CMC				completed as soon as possible.
13	Mr. T. Ramesh Pai S/o Gopalakrishna Pai Kote Road Kalyanpura Udupi	9243966432	No water supply from the CMC	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
14	Mr. Sampath S/o Balakrishna Taxi stand Santhekatte Udupi	9591178782	No water supply from the CMC	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
15	Mr. Baburaya Achari S/o Ramakrishna Achari Nejar Kelarkatte Santhekatte Udupi	9845863661	No water supply from the CMC	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
16	Mr. Ramesh S/o Kogganna Naik Kelarbettu Santhekatte Udupi	9945727033	No water supply from the CMC	24X7 water supply	Yes	No	Project need to be completed as soon as possible.
17	Mr. Ramesh S/o Nadu Hindu Crematorium Indrali Udupi	9902574072	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.
18	Mr. B. G Pai S/o Annappa Pai Sri. Malasa krupa No 11 Vyavahar Gardens Kukkikatte Udupi	9900404721 0820-2592669	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.
19	Mr. S Vishwanath Prabhu S/o Late S. Gopal Rao Door No 2-159/C Namrtha Vyavahar Garden Kukkikatte Udupi	8123719475 0820-2592652	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.

Sl. No	Name and address of the person consulted	Contact No	Present condition of water supply	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	Suggestions for the proposed project
20	Mr. Sridhara Acharya S/o Giriappa Acharya Door No 2/157/A Near Vyavahar Garden Manchi Mulasthan Udupi	9886997878	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.
21	Mrs. Mercina W/o Nelson Door No 2-154C Manchi Mulasthan Road Kukkikatte Udupi	9880156361	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.
22	Mr. Rafiq S/o Imamsaheb Door No 2-155A Kukkikatte Udupi	8970276871	Daily 6AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as an earliest.
23	Mrs. Ammanniyamma W/o A. P Jayagopal Kolambe Bailur Udupi	9964330800	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
24	Mrs. Laxmi W/o T. R Venkatesh Door No 5-2-39C Kolambe Bailur 76 Badagabettu Udupi	9972019562	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
25	Mr. Murugan S/o P. Raju Door No 5-2-39D Kolambe Bailur	8710031012	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
26	Mrs. Chithra W/o Ganesh Door No 5-2-39 Kolambe Bailur 76 Badagabettu Udupi	8453838757	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
27	Mrs. Pushpa W/o Gopal Door No 5-2-46C	9743651316	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as

Sl. No	Name and address of the person consulted	Contact No	Present condition of water supply	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	Suggestions for the proposed project
	Kolambe Bailur 76 Badagabettu Udupi						early as an earliest.
28	Mrs. Shantha W/o Armuga Door No 5-2-39 Kolambe Bailur 76 Badagabettu Udupi	9035035641	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as an earliest.
29	Mr. Chandrahas Shetty Smt. Ammanni Ramanna Shetty Memorial Hall and Sri. Siddi Vinayaka temple Kolambe Volakadu Udupi	9880125757 0820- 2522513	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
30	Mr. Mohammed Zabir S/o K. Hassansaheb Popular Seat covers Indrali Udupi	9880941924	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
31	Mr. Rajendra S/o Srinivas Vittal laundry Indrali Udupi	9008000909	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.
32	Mrs. Parvathi Ganesh sweets Indrali Udupi	7760231030	Daily 7 AM to 11 AM	24X7 water supply	Yes	No	Project need to be completed as early as possible.

APPENDIX 3- PHOTOGRAPHS OF DISCUSSIONS WITH STAKEHOLDERS/ COMMUNITY ALONG CLEAR WATER FEEDER MAINS AND DISTRIBUTION ALIGNMENT



Discussions with anganawadi (local primary school/ crèche near the veterinary hospital, Manipal. The Manipal. Ward Councillor- Mr. Narasimha Nayak, Executive Engineer- KIUWMIP and Social Development Officers were present



Discussions with shop owners at Mannampalla, Manipal (clear water feeder main to OHT to WS distribution)



Consultation with director, Smt. Ammanni Ramanna Shetty Memorial Hall and at Sri. Siddi Vinayaka temple Kolambe Volakadu (area with clear water feeder mains connecting to OHT and WS distribution network)



Discussions with residents around the proposed OHT at Kolambe Volakadu, Udipi



Discussions with the local residents in Kakkunje (around the proposed OHT) by the Ward Councillors Mrs. Jyothi and Mr. Chandrakanth (second from right)



Discussions with residents of around proposed OHT site in Santhekatte with ward councillor Mrs. Shobha (first from left) and Mr. Chandrakanth (fifth from left)



Discussion with residents in Santhekatte Udupi



Discussions with residents near proposed OHT in Indrali, Udupi



Discussions with residents in Vyahar Garden (around the proposed OHT site at Manchi) with ward counsellor Mrs.Hemalatha Hilari Jathan, executive engineer KUIWMIP

APPENDIX 4- PROCEEDINGS OF PUBLIC CONSULTATIONS (CITY AND WARD LEVEL)

TOWN LEVEL PUBLIC CONSULTATION HELD 2 FEBRUARY 2018

A city level public consultation was organized by Udupi MC in the Sathyamurthi auditorium hall, CMC Udupi on 2 February 2018. Notice of the meeting/workshop was served to all councillors, stakeholders along the alignment of the project and was also published in the local newspapers. The DPD, RPMU Mangalore, the Municipal Commissioner of Udupi CMC, President and the vice-president of Udupi MC, CMC councillors, SDO, KUIDFC Bangalore, press reporters and approximately 25 project stakeholders were present at the workshop.

Sri. Pramod Madhwaraj, Minister for Fisheries, Youth Empowerment and Sports was the chief guest of the public consultation workshop. Municipal Commissioner, President of CMC Udupi, GKW Consultants GmbH, Mangalore, Executive engineer of PIU and Engineers of KIUWMIP, Engineers of CMC and the project stakeholders were present.

Sri. Pramod Madhwaraj, inaugurated and addressed the gathering stating that all efforts would be made to take people into confidence for the effective implementation of the project. He stated that 24x7 water supply and electricity supply were promised pre-election, that the promise of 24x7 electricity promise has been fulfilled and that action has been initiated to draw water from the Varahi river to supply water to Udupi. He stated that the Chief Minister of Karnataka laid the first foundation stone for implementation of 24x7 water supply on 08 January 2018. He described the obstacles faced in the process of getting approvals for the project and his efforts to sanction the water supply project for Udupi. He suggested that if any local inconveniences or objections arose during project implementation they would be solved through negotiations and settlements. He requested that to have a better coordination between the City Municipal Council and KUIDFC, the PIU should have its office at the CMC. He requested the concerned government departments to support for effective implementation of the project.

Sri.Prabhakar Sharma, Deputy Project Director of RPMU Mangalore, Karnataka Urban Infrastructure Development and Finance Corporation, described the project in detail to the audience. He explained that 24x7 water supply and UGD project are approved with financial assistance of ADB (KIUWMIP) and Government of India (AMRUT). Mr Sharma explained that the objective of the public consultation workshop is to discuss project details with the stakeholders before the project implementation (as per the guidelines of ADB). He explained that the project has been divided into three packages. A tender has been called for the first package to draw water from Varahi and the other two packages are at the DPR preparation stage. He indicated that land acquisition will be required for UGD work and consequently, it will undertaken in the second phase. KUIDFC will be implementing the project and its office will be at the Deputy Commissioner's Office, Rajathadri Manipal and all required technical and non-technical staffs have been recruited. He stated that all civil works will be implemented in 30 months and contractor will have O&M contract for eight years. The DPD requested all the participants to participate in the discussion and to provide suggestions for the effective implementation of the project.

GKW Consultant: Design Engineers of GKW Consult GmbH made a presentation on KIUWMIP and AMRUT projects and the amount allotted for 24x7 water supply and UGD civil works. The consultants explained the present existing water supply project and the demand requirement.

Questions raised by the elected representatives:

1. Only 4 months in a year water will be lifted from the proposed Varahi river and rest of the months the pumps installed for lifting water and is there a chance of pump sets will be spoiled due to non-usage.
 - a. The consultants replied that the pumps installed to lift water from Varahi river will be run 1-2 hours once in 15 days.
2. AEE of Udupi CMC expressed his concern about present scarcity of water during summer and he told that at present from Swarna project phase 1 9 MLD and from Swarna phase 2 27 MLD water is supplied to Udupi city and there is acute shortage of drinking water during the months of March, April and May and the stored water from Swarna river is not sufficient for the above months. Moreover, in some years, the inflow of water in Swarna river stopped during the month of January itself. The present design is prepared based on the assumption that during the above months every day 20 Million litres of water can be taken from Swarna river and the same quantity of water is reduced while estimating the quantity of water to be pumped from the river Varahi. He also told that tender also called for the water supply project of Udupi city and he suggested to make necessary modifications for the tender called to include the above mentioned 20 MLD water as an addition for the proposed water supply and also suggested to increase the capacity of the pipeline to lift the additional 20 MLD water from Varahi river.

The Public Consultation workshop was ended with vote of thanks by the Municipal Commissioner.

Sd/-

President

Udupi CMC

True copy

Sd/-

Municipal Commissioner

CMC

photos of City Level Public Consultation held at Udupi on 02-04-2018





Pictures of the Town Level Public Consultation

Signature Sheets for the Town Level Public Consultation 02.02.2018

[illegible]

Signature Sheets for the Town Level Public Consultation 02.02.2018

[illegible]

Signature Sheets for the Town Level Public Consultation 02.02.2018

1	Mr. Narayan P. Kumbhar	
2	Mr. Narayan P. Kumbhar	
3	Mr. Narayan P. Kumbhar	
4	Mr. Narayan P. Kumbhar	
5	Mr. Narayan P. Kumbhar	
6	Mr. Narayan P. Kumbhar	
7	Mr. Narayan P. Kumbhar	
8	Mr. Narayan P. Kumbhar	
9	Mr. Narayan P. Kumbhar	
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12	Mr. Narayan P. Kumbhar	
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14	Mr. Narayan P. Kumbhar	
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31	Mr. Narayan P. Kumbhar	
32	Mr. Narayan P. Kumbhar	
33	Mr. Narayan P. Kumbhar	
34	Mr. Narayan P. Kumbhar	
35	Mr. Narayan P. Kumbhar	

City Municipal Council, Ward			
Public Consultation on 02.02.2018			
Date 02.02.2018			
Details of Public Consultation Workshop Notice Sent to the participants			
S. No.	Name and Address	Contact No.	Signature
1	Mr. Narayan P. Kumbhar Narayan P. Kumbhar Kumbhar, Ward	9920404761	
2	Mr. Narayan P. Kumbhar Kumbhar, Ward	7553363365	
3	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	
4	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	
5	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	
6	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	
7	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	
8	Mr. Narayan P. Kumbhar Kumbhar, Ward	9886997878	

WARD LEVEL PUBLIC CONSULTATION HELD 21 FEBRUARY 2018

A ward level meeting public consultation was held on 21 February 2018 at Mookambika Bhajana Mandir, Kodavoor, Udupi.

Mrs. Meenakshi Madhava Bannanje, president of Udupi CMC presided over the meeting. Attendees included the Municipal Commissioner, Engineers of Udupi CMC, Engineers of KUIDFC, GKW Consultants and ward residents. Details of the project were explained to the attendees. Details of the AMRUT and state associated projects were also explained. Questions were raised by the attendees about the timeline and the efficacy of the project execution. The timelines, institutional arrangement and monitoring mechanism was explained by the project team. Assurances were made that the project would adequately supply water to all of Udupi

Public Notification of Ward Level Public Consultation, Kadavoor, 21.02.2018



Minutes of Ward Level Public Consultation, Kadavoor, 21.02.2018



Signature Sheets for the Ward Level Public Consultation, Kadavoor, 21.02.2018

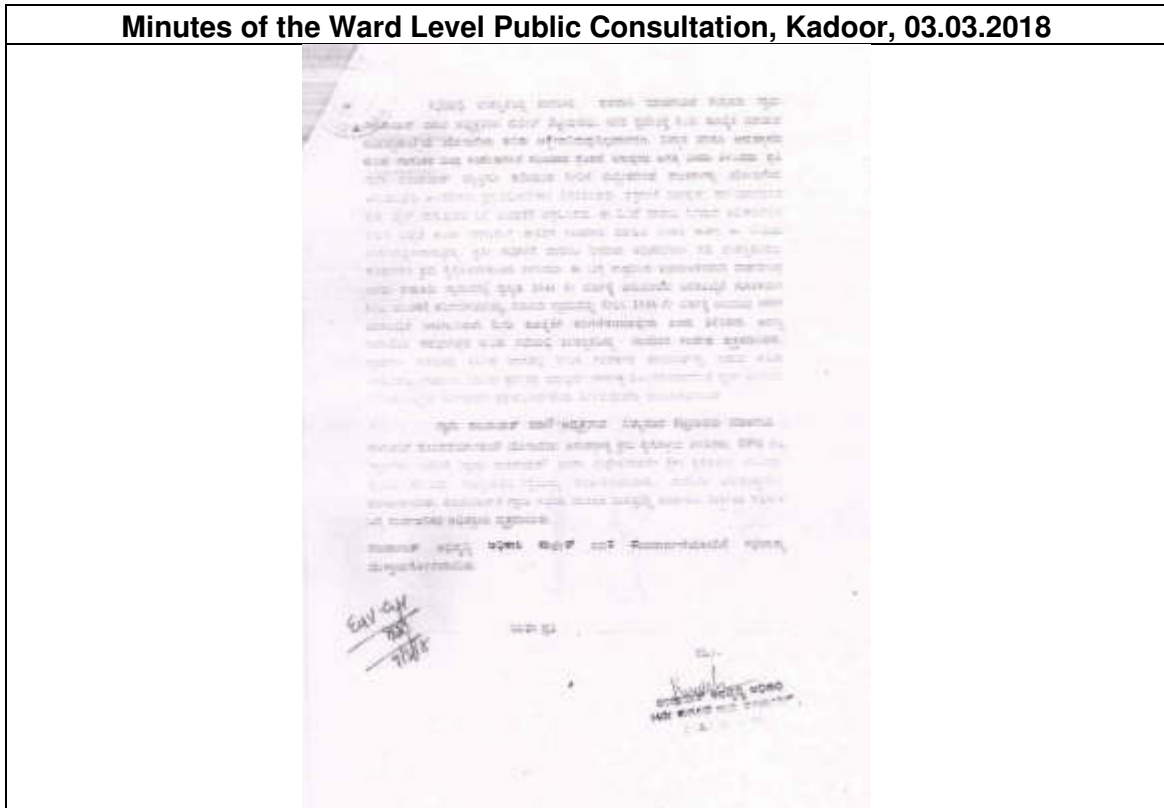
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PUBLIC CONSULTATION HELD IN KADOOR, EN ROUTE VILLAGE, 03 MARCH 2018

Ward level public consultations were held on 03 March 2018 at Kadoor, Udupi (enroute village).

Attendees included the president of Udupi CMC, Municipal Commissioner, engineers of Udupi MC, engineers of KUIDFC, GKW Consultants and ward residents. Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Villagers requested that damages on the road be repaired immediately. All the attendees were supportive of the project.

Minutes of the Ward Level Public Consultation, Kadoor, 03.03.2018



Photographs of the Ward Level Public Consultation, Kadoor, 03.03.2018



PUBLIC CONSULTATION HELD IN CHERKADY, EN ROUTE VILLAGE, 05 MARCH 2018

A ward level public consultation was held on on 05 March 2018 at Cherkady, Udupi (enroute villages).

Attendees included the president of Udupi CMC, Municipal Commissioner, Engineers of Udupi MC, Engineers of KUIDFC, GKW Consultants and ward residents. Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. Villagers requested that damages on the road be repaired immediately. All the attendees were supportive of the project.

Minutes of Ward Level Public Consultation, Cherkady,05.03.2018

Minutes of Ward Level Public Consultation, Cherkady, 05.03.2018

Photographs of Ward Level Public Consultation, Cherkady,05.03.2018



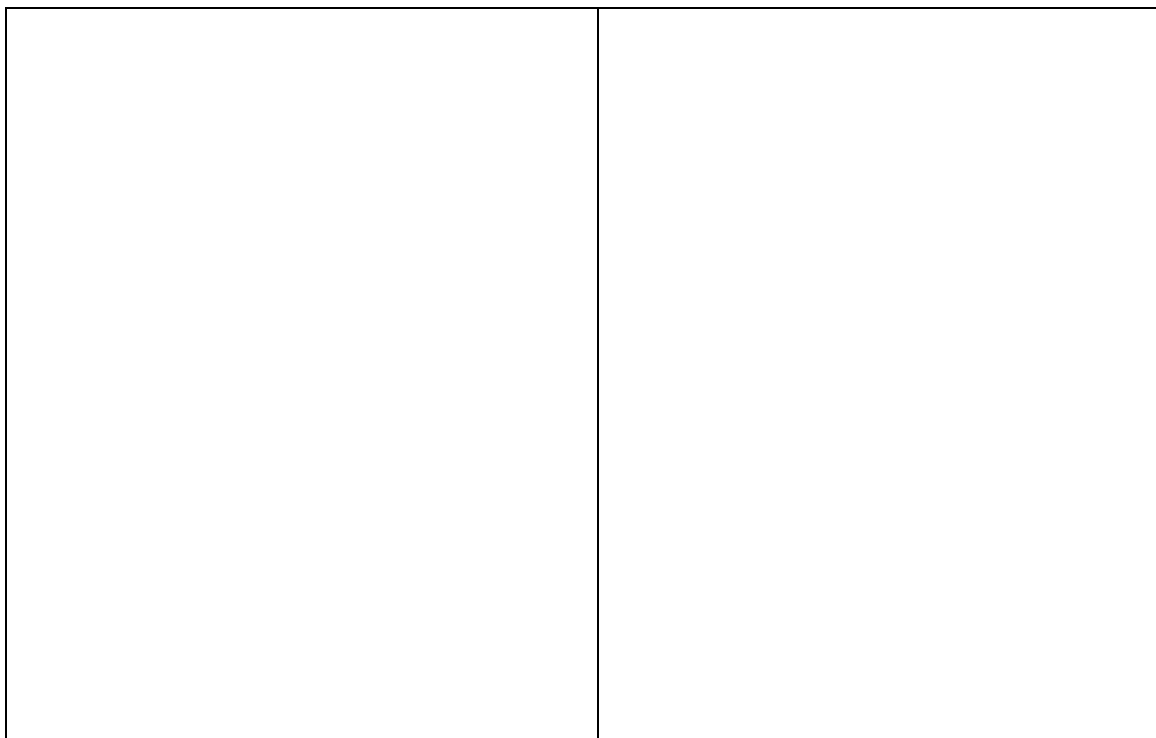
Signature Sheets of Ward Level Public Consultation, Cherkady, 05.03.2018

[illegible]

PUBLIC CONSULTATION HELD IN KUKEHALLI, ENROUTE VILLAGE, 07 MARCH 2018

A public consultation was held on 07 March 2018 at Kukehalli, Udupi (an enroute village). The president of Udupi CMC presided over the meeting. Attendees included the Municipal Commissioner, Engineers of Udupi CMC, Engineers of KUIDFC, GKW Consultants and ward residents. Details of the project were explained to the attendees and feedback requested. Villagers, through their elected representative, requested treated water in the villages and a WTP at the source of the river to feed the villages. The project team explained that the project has the option for the villagers to tap raw water directly from the pipeline. The villages also requested that damages should be rectified immediately and that the quantum of water for the villages be adequate. All the attendees were supportive of the project.

Minutes of the Ward Level Public Consultation, Kukehalli, 07.03.2018	



Photographs of Ward Level Public Consultation, Kukehalli, 07.03.2018



Signature Sheets for the Ward Level Public Consultation, Kukehalli, 07.03.2018

Photographs of Ward Level Public Consultation, Kokkarne, 15.03.2018



Signature Sheets for the Ward Level Public Consultation, Kokkarne ,15.03.2018

Ward Level Public Consultation, Kokkarne, 15.03.2018		
Sl. No.	Name	Signature
1	Dr. S. S. Suresh	[Signature]
2	Dr. S. Suresh	[Signature]
3	Dr. S. Suresh	[Signature]
4	Dr. S. Suresh	[Signature]
5	Dr. S. Suresh	[Signature]
6	Dr. S. Suresh	[Signature]
7	Dr. S. Suresh	[Signature]
8	Dr. S. Suresh	[Signature]
9	Dr. S. Suresh	[Signature]
10	Dr. S. Suresh	[Signature]
11	Dr. S. Suresh	[Signature]
12	Dr. S. Suresh	[Signature]
13	Dr. S. Suresh	[Signature]
14	Dr. S. Suresh	[Signature]
15	Dr. S. Suresh	[Signature]

APPENDIX 5- OFFICE MEMORANDUM – GRIEVANCE REDRESSAL MECHANISM

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



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

KUIDFC/KIUWMIP/DLIC/2014-15/228

1393

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

ಕೆ.ಯು.ಎಂ.ಡಿ.ಎಚ್.ಓ.



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.

APPENDIX 6- 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: _____

APPENDIX 7- PROJECT INFORMATION DISCLOSURE (PID)

Background

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 first phase will be used to expand and upgrade water supply and sanitation infrastructure in three towns. The project is also improving water resource planning, monitoring, and service delivery to the four coastal towns of Puttur, Kundapura, Mangalore and Udupi as part of Projects 2 and 3. These towns have been selected based on (i) IWRM improvement impact on the State's water resources, (ii) ULBs reform willingness, and on (iii) infrastructure gaps.

Udupi municipality spreads across an area of 69.28 square kilometer (km²) and is divided into 35 wards. The municipal area comprises the surrounding areas of Manipal, Parkala, Malpe, Udyavara and Santhekatte. Currently, water supply is from Swarna River implemented in 1971. Under the Karnataka Urban Development and Coastal Environmental Management Project (KUDCEMP) water supply was improved in 2005-2006 with the Swarna River as its source. Water supply was designed for a population of 290,278 people for 2026. The treatment facilities comprised a capacity of 27.24 million liters per day (MLD). However, the infrastructure coverage concerning the water supply is not comprehensive due to a lack of funds. To optimally utilize the assets created under KUDCEMP, the ADB assisted KIUWMIP seeks to improve the urban water supply and sanitation in Udupi. The Udupi City 24x7 water supply distribution network subproject is proposed in Tranche 2 of the KIUWMIP.

To meet the water demand of Udupi residents, it has been proposed to draw water from the Varahi River at Bharatkal (near Halady, Kundapur). An existing abandoned lift irrigation scheme is proposed to be revitalized. Bulk Improvement components such as the Intake well, jack well cum pump house, raw water transmission main, water treatment plant and clear water transmission main are proposed in Package 2 DPR of Bulk Improvements under AMRUT.

Subproject Description

The water supply project in Udupi town is proposed for upgradation of existing distribution lines, replacement of existing old transmission lines and replacement of old faulty meters in HSCs. Rehabilitation and Replacement of old WTP to augment water supply being proposed under State funding. The subproject to improve 24x7 Water supply Distribution Network includes (i) Clear water feeder mains of DI & MS pipes of dia ranging from 150 mm to 355.60 mm for a length of 7.47 kilometers (kms) to feed clear water to new overhead tanks (OHTs), (ii) Construction of 7 OHTs of total storage capacity 5.2 ML, (iii) Construction of 358.17 kms distribution pipe lines, and (iv) Replacement of non-functioning 16,870 water meters for existing connections and providing new water supply connections of 15,000 to un-covered households.

Proposed Water Supply Distribution Network Components			
Sl.No	Project Component	Proposal	Details
1	Clear water feeder mains	7.47 kms	Clear water main for 1.5 kms DI K9 pipe Pumping Main from GLSR to OHT zone-2; Clear water gravity main for newly proposed OHTs for 5.47 kms MS Pipes
2	Service reservoirs	7 nos	OHTs at Zone-3(7.5 LL), Zone-5(3 LL), Zone-6B (7.5 LL), Zone-7C(3 LL), Zone-8B (10 LL), Zone-8C (5 LL) & zone-9B (16 LL),
3	Distribution system pipelines	358.17 kms	proposed across all zones
4	House service connections	15,000 nos	Providing about 15,000 New House Service Connections with water meters. Providing New water meters for 16,870 existing house service connections

Resettlement Plan: Policy and Principles

A Resettlement Plan is prepared for the proposed Udupi Water Supply Subproject under KIUWMIP, based on ADB's Safeguard Policy Statement 2009 and applicable Government of India and Government of Karnataka laws and policies.

Involuntary Resettlement Impact

No private land acquisition is anticipated as a result of proposed components. Potential temporary income loss, if any, to 3 vendors for a period of 15 days each is assessed. In most road/pipe sections, it will be possible to completely avoid temporary income loss to businesses, as road width is adequate and will not require closure. The Resettlement Plan will be updated and reconfirmed for final involuntary resettlement impacts after completion of detailed measurement surveys in sites / sections ready for implementation.

Entitlements and Compensation

The Resettlement Plan proposes compensation to affected persons based on the entitlement matrix prepared for the project. Potential losses that can be avoided/mitigated through proper scheduling of work, avoidance of impact to businesses where possible, provision of planks for access to shops and businesses and traffic management plans to avoid disruption have been proposed. As per the entitlement matrix for KIUWMIP, persons facing temporary income loss, if any, are entitled to compensation at average of maximum daily net income (based on the principle of replacement value) for the period of disruption. Vulnerable persons among the affected persons are entitled to preferential appointment to project-related construction jobs, if so desired by them.

Grievance Redress Mechanism

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 APs 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.

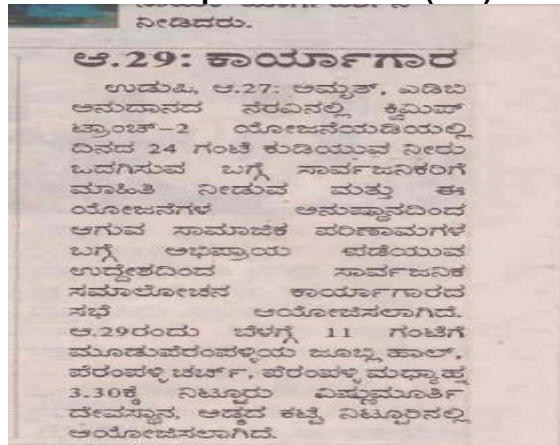
Institutional arrangements for Monitoring and Reporting

The Social Development Officer at PMU Head Office will confirm and update the RP. SDO of RPMU will be responsible for regular monitoring. RP implementation and identifying potential problems. Monitoring reports will also contain resettlement compliance apart from progress in RP implementation. The reports will be submitted to ADB on a half yearly basis in the Social monitoring report (SMR) by the PMU.

H. Contact details

Organisation	Name	Position	Phone number	Email Id
Contractor:				
PMDSC Supervision Staff				
CAPRRRC				
GR Hotline				

News Paper Notification (PID)



APPENDIX 8- DUE DILIGENCE REPORT ON ASSOCIATED FACILITIES

- Project Description:** It is proposed to draw water from the Varahi River at Bharatkal (near Halady, Kundapur) to meet the water demand of Udupi residents. An existing abandoned lift irrigation scheme is proposed to be revitalized. Bulk (improvement) water supply components (associated facility) such as intake well, jack well cum pump house, raw water transmission main, water treatment plant and clear water transmission main are proposed in Package-2 detailed project report (DPR) of Bulk Improvements under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) project of the Government of India.

Table 1: Associated Facilities- Subproject Components, Udupi Water Supply

	Infrastructure	Function	Description	Location
1	Intake Well,	To pump raw water for four months (120 days) during the summer from river Varahi	construct a M-30 RCC intake well (of 4 m diameter and 6.2 m depth) near the river bank; For the withdrawal of water to the jack well, two 1200 mm dia. RCC NP-4 Raw water feed pipes (one from Intake well to Jackwell and another directly from the river to the jack well) for a length of about 40 m are proposed. At the inlet at the Jack well, a DI Sluice Valve of 1200 mm diameter is proposed to control the flow. It is proposed to construct a RCC Jackwell of RCC M-30 with 12.0 m dia, 12.5 m depth near the bank of the river.	Bharatkal, Halady; in the existing abandoned lift irrigation pump house premises of Karnataka Niravari Nigama (a Government of Karnataka entity)
2	WTP	To treat water prior to distribution	Cascade Aerator, Raw Water Channel, Alum & Lime Solution Preparation Tanks, Flash Mixer, Clariflocculator, Rapid Sand Filters, Bleaching Powder Mixing Tanks, Clear Water Reservoir, Back Wash Tank, Clear Water Pump House and Buildings.	Halady (private land)
3	Distribution Pipeline	To distribute water from the WTP to OHT's	38.8 km of 864 mm dia MS pipes	Halady to Manipal GLSR

- Scope of Land Acquisition and Resettlement:** In order to identify the adverse social impact of the associated facilities, a site visit was carried out by the ULB engineers, resettlement specialist and design engineer of the consultants' team from the 1 April 2016 to 30 May 2016 along the alignment. This was verified in 16th August 2017 and again in Feb 2020. The table below reflects the land requirement, availability, ownership and involuntary resettlement impacts for the associated facilities.

Table 2: Land Requirement- Associated Facilities

S.No	Facility	Location	Required Land [acres]	Ownership	Involuntary Resettlement Impacts/ Remarks
1	Intake Well	Halady	0.64	Karnataka Niravari Nigama site (Government of Karnataka)	Abandoned lift irrigation pump house premises; unused. No involuntary resettlement impact anticipated.
2	WTP	Halady	0.6	Mr K Jayaprakash Hegde	Purchase of Land from One private party through a negotiated settlement.
3	Distribution Pipeline	Halady to Manipal	38.8 km	Public Works Deptt (PWD)	Along the ROW; no involuntary resettlement anticipated

3. The Managing Director KUIDFC wrote to the Chief Engineer, Karnataka Niravari Nigam Ltd (KNNL) requesting handover of the existing abandoned jack well for the proposed intake for the Udupi water supply subproject on the 16th of August, 2017 and 9th of March 2020 (see below). The Managing Director, KNNL responded favourably on the 15th of Dec, 2017 permitting the use of 41 MLD water from Varahi River to Udupi city (see letter below). Handover has not yet been completed. Details of the site and transfer agreements will be presented in the next SSMR.

Sub: Hand over of the Abandoned Jack well near Bharthkal in Haladi Village to Supply Drinking Water to Udupi City from Varahi River.

Ref: 1. Proceedings of the Meeting of Secretary, Urban Development, Government of Karnataka dated 09 August 2017.

2. No. KIUWMIP/RPMU/CR/ 56/2016-17/174, dated 14 August 2017

With reference to the above, presently water being lifted from Swarna River at Baje and treated drinking water is supplied to the residents of Udupi City. But the storage capacity of the vented dam constructed at Baje is not sufficient to supply water during summer as per the demand.

In this regard it was verified, possibility of constructing a new vented dam for Swarna River near Shimra village to supply drinking water as per the demand of Udupi City. But it was found that if vented dam constructed at Shimra village, there is a possibility of private properties being submerged and also the project is economically not viable. Therefore, it was decided that it is better to prepare the DPR as per reference (1) by using the existing abandoned Jack well near Bharathkal in Haladi village which is under Karnataka Irrigation Corporation Limited. In this regard, DPR has been prepared to supply water to the existing WTP at Baje by Karnataka Urban Infrastructure Development and Finance Corporation through AMRUT assistance. Therefore, you are requested to hand over the abandoned Jack well including the existing machineries which is near Bharathkal in Haladi village to the Municipal Commissioner, City Municipal Council, Udupi.

Yours faithfully

-Sd-

A B Ibrahim
Managing Director
KUIDFC, Bengaluru

Copy to:

1. The Secretary, Urban Development Department Government of Karnataka, Vikasa Soudha, Bengaluru for kind information.
2. The Joint Managing Director, KUIDFC, Bengaluru for information.

	<p>Karnataka Urban Infrastructure Development & Finance Corp. Ltd., Karnataka Integrated Urban Water Management and Investment Programme (KIUWMIP) "Jalashree" - Tranche 2 Regional Programme Management Unit (RPMU), First Floor, Mangalore City Corporation Commercial Complex, Mallikarjuna Katti, Mangalore - 575003 E-mail : manantranche2dp@knnl.com Tel : 0824-2981109</p>
NO:KIUWMIP/RPMU/CR.80/2017-18	ದಿನಾಂಕ:16-03-2020
<p>ಪೌರಾಯುಕ್ತರು ಉಡುಪಿ ನಗರ ಸಭೆ ಉಡುಪಿ</p>	
ಮಾನ್ಯರೇ,	
<p>ವಿಷಯ: ಅಮ್ಮತ್ ನೆರವಿನ ಉಡುಪಿ ನಗರಕ್ಕೆ ವಾರಾಹಿ ನದಿಯಿಂದ ಕುಡಿಯುವ ನೀರು ಸರಬರಾಜು ಯೋಜನೆ ಭರತ್ಪಲ್ ಹತ್ತಿರವಿರುವ ಏಕಾ ನೀರಾವರಿ ಯೋಜನೆಯ ಬಾಲನೆಯಲ್ಲಿರುವ ಪಾಲ್ ವೆಲ್ ನ್ನು ಹಸ್ತಾಂತರಿಸುವ ಬಗ್ಗೆ. ಉಲ್ಲೇಖ: ಕಾರ್ಯಕಾರಿ ವ್ಯವಸ್ಥಾಪಕರು, KUIDFC, ಬೆಂಗಳೂರು ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ:KUIDFC/KIUWMIP/T2/UDUPI/2014- 15/234/4119 ದಿನಾಂಕ:09-03-2020.</p>	

<p>ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ ಅಮ್ಮತ್ ನೆರವಿನ ಉಡುಪಿ ನಗರಕ್ಕೆ ವಾರಾಹಿ ನದಿಯಿಂದ ಕುಡಿಯುವ ನೀರು ಸರಬರಾಜು ಯೋಜನೆಗೆ ಸಂಬಂಧಿಸಿದಂತೆ ಉಡುಪಿ ಹಾಲಾಡಿ ಗ್ರಾಮದ ಭರತ್ಪಲ್ ಹತ್ತಿರ ಏಕಾ ನೀರಾವರಿ ಯೋಜನೆಯ ಬಾಲನೆಯಲ್ಲಿರುವ ಪಾಲ್ ವೆಲ್ ನ್ನು ಉಡುಪಿ ನಗರ ಸಭೆಗೆ ಹಸ್ತಾಂತರಿಸುವಂತೆ ಕಾರ್ಯಕಾರಿ ವ್ಯವಸ್ಥಾಪಕರು, KUIDFC, ಬೆಂಗಳೂರು ಇವರು ಉಲ್ಲೇಖಿತ ಪತ್ರದಲ್ಲಿ ಬಹು ಅಭಿಯಂತರರು, ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ನಿಯಮಿತ , ಶಿವಮೊಗ್ಗ ಇವರಲ್ಲಿ ಕೋರಿರುತ್ತಾರೆ. ಆದುದರಿಂದ ತಾವು ಈ ಬಗ್ಗೆ ಮುತುವರ್ಜಿವಹಿಸಿ ಸಂಬಂಧಪಟ್ಟ ಇಲಾಖೆಯವರೊಂದಿಗೆ ವ್ಯವಹರಿಸಿ, ಪಾಲ್ ವೆಲ್ ಹಸ್ತಾಂತರ ಪಡೆಯಲು ಕ್ರಮ ಕೈಗೊಳ್ಳುವಂತೆ ಕೋರಿದೆ.</p>	
ಆದಕೆ, ಉಲ್ಲೇಖಿತ ಪತ್ರದ ಪ್ರತಿ.	<p>ತಮ್ಮ ವಿಶ್ವಾಸಿ (ಡಿ.ಪಂಜುನಾಥಯ್ಯ) ಉಪಯೋಜನಾ ನಿರ್ದೇಶಕರು KIUWMIP-RPMU, 16/03/2020 ಮಂಗಳೂರು</p>
ಪ್ರತಿ:	
<ol style="list-style-type: none"> 1. ಟಾಸ್ಕ್ ಮ್ಯಾನೇಜರ್, KUIDFC, ಬೆಂಗಳೂರು ಇವರಿಗೆ ಮಾಹಿತಿಗಾಗಿ ಸಲ್ಲಿಸಿದೆ. 2. ಕಾರ್ಯವಾಹಕ ಅಭಿಯಂತರರು, PMU-ಉಡುಪಿ ಇವರಿಗೆ ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ. 3. ಲೇವಿ ರೇಡರ್, M/s.GKW Consult, GmbH, ಮಂಗಳೂರು ಇವರಿಗೆ ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ. 	

Translation

Letter from Deputy Director regional project management unit (RPMU) Mangalore to the Municipal Comissioner, CMC Udupi, dated 16.03.2020, requesting that the site for the intake and jack well be taken into custody from KNNL.

4. The DPD, RPMU Mangalore requested the Director, KNNL on 11-10-2017 for a No Objection Certificate (NOC) regarding the withdrawal of water from the intake well on the Varahi river for water supply to Udupi, considering no impact on downstream villages. KNNL has provided a NOC to certify water usage (see below).



Karnataka Urban Infrastructure Development & Finance Corp. Ltd.,
Karnataka Integrated Urban Water Management and Investment
Programme (KIU/WMP) "Jalasi" - Tranche 2
Regional Programme Management Unit (RPMU),
First Floor, Mangalore City Corporation Commercial Complex,
Malikata Kashi, Mangalore - 575002
E-mail : jalasitranch2@kuidfc.com Tel : 0824-2981109

No.KIU/WMP/RPMU/CR 06/2016-17

Date:11-10-2017

Executive Engineer
Karnataka Neeravari Nigam Limited
No.2 Varahi Project Zone
Siddapura,Udupi Dist-576229

Sir,

Sub: WOC for effect of abandoned Jack well near Bharthial in Haladi Village to Intake water to Supply Drinking Water to Udupi City from Varahi River on downstream villages

You are kindly requested to provide NOC(No Objection Certificate) certifying that the abandoned Jack well near Bharthial in Haladi Village to Intake water to Supply Drinking Water to Udupi City from Varahi River on downstream villages will not adversely affect the downstream villages such as Kulanje, Halady, Vender, Kikkahell, Avarse, Haluvall,Pejamogaru, Kadur, Kakkunje, Billadi, Cherkadi and 33 Shiroor villages.

Regards,

Yours Sincerely

(S.A.Pradhakara Sharma)
Deputy Project Director
KIUDFC- KIU/WMP (Jalasi)
RPMU
Mangaluru

ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ ಸೀಮಿತ
(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಉದ್ಯಮ)
Karnataka Neeravari Nigam Limited
(A Government of Karnataka Enterprise)

ದಿನಾಂಕ: 15.12.2017

ಸಂಖ್ಯೆ: ಕೆಎನ್‌ಎನ್/238/ಟಿವಿ/2017-16/
ಇದರಿಗೆ,
ಸರ್ಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು,
ಜಲಸಂಪನ್ಮೂಲ ಇಲಾಖೆ,
ವಿಜಯನಗರ,
ಬೆಂಗಳೂರು.

ಮುಖ್ಯವಾಗಿ,
ವಿಷಯ: ಉಡುಪಿ ನಗರಕ್ಕೆ ವಾರಾಹಿ ನದಿಯಿಂದ 41 ಎಂಎಲ್‌ಡಿ ಪ್ರಮಾಣದ ನೀರನ್ನು
ಉಪಯೋಗಿಸಿಕೊಳ್ಳಲು ಅನುಮತಿ ನೀಡುವ ಬಗ್ಗೆ.
ಉಲ್ಲೇಖ: ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಶಿವಮೊಗ್ಗ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: 3081, ದಿ.26.10.2017.

ಮೇಲಿನ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ ಪತ್ರದಲ್ಲಿ ಮುಖ್ಯ ಇಂಜಿನಿಯರ್‌ರವರು ಉಡುಪಿ ನಗರಕ್ಕೆ ವಾರಾಹಿ ನದಿಯಿಂದ 41 ಎಂಎಲ್‌ಡಿ ಪ್ರಮಾಣದ ನೀರನ್ನು ಉಪಯೋಗಿಸಿಕೊಳ್ಳಲು ಅನುಮತಿ ನೀಡುವಂತೆ ಕೋರಿ ಪ್ರಸ್ತಾವನೆಯನ್ನು ಅನುಮೋದನೆಗಾಗಿ ಸಲ್ಲಿಸಿದ್ದು, ಕೆಳಕಂಡಂತೆ ವರದಿ ಮಾಡಿರುತ್ತಾರೆ.

ವಾರಾಹಿ ನದಿಯಲ್ಲಿ 41 ಎಂಎಲ್‌ಡಿ ಪ್ರಮಾಣಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಪ್ರಮಾಣದ ನೀರು ಹರಿಯುತ್ತಿದ್ದು, ಅಂದರೆ ಗೇಟ್ ಪ್ರಕಾರ 75% dependable yield 40.61 cumecs ಇರುವುದರಿಂದ, ಉಡುಪಿ ನಗರಕ್ಕೆ ಕುಡಿಯುವ ನೀರು ಸರಬರಾಜು ಯೋಜನೆಗೆ ವಾರಾಹಿ ನದಿಯಿಂದ 41 ಎಂಎಲ್‌ಡಿ ಪ್ರಮಾಣದ ನೀರನ್ನು ಉಪಯೋಗಿಸಲು ಅನುಮತಿ ನೀಡಬಹುದಾಗಿರುತ್ತದೆಂದು ಅಭಿಪ್ರಾಯಪಡುತ್ತಾ, ಅನುಮೋದನೆ ದೊರಕಿಸಿಕೊಡುವಂತೆ ಕೋರಿ ಪ್ರಸ್ತಾವನೆಯನ್ನು ಸಿಬ್ಬಂದಿಯವರಿಗೆ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ರಾಷ್ಟ್ರೀಯ ಜಲನೀತಿಯನ್ವಯ ಕುಡಿಯುವ ನೀರಿಗೆ ಪ್ರಥಮ ಆದ್ಯತೆ ನೀಡಬೇಕಾಗಿರುವುದರಿಂದ ಉಡುಪಿ ನಗರಕ್ಕೆ ವಾರಾಹಿ ನದಿಯಿಂದ 41 ಎಂಎಲ್‌ಡಿ ಪ್ರಮಾಣದ ನೀರನ್ನು ಉಪಯೋಗಿಸಲು ಅನುಮತಿಯನ್ನು ನೀಡಬಹುದಾಗಿದೆ. ಸದರಿ ಪ್ರಸ್ತಾವನೆಯನ್ನು ತಮ್ಮ ಆದರ್ಶವಾಗಿ ಮತ್ತು ಮುಂದಿನ ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ ಸಲ್ಲಿಸಲಾಗಿದೆ.

ಇದಕ್ಕೆ ಮೇಲಿನಂತೆ

ತಮ್ಮ ದೃಷ್ಟಿ,
ಸಹಕಾರದ ಕಾರ್ಯದರ್ಶಿಗಳು,
ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮ,
ಬೆಂಗಳೂರು.

ಪ್ರತಿಯನ್ನು ಮುಖ್ಯ ಇಂಜಿನಿಯರ್, ಕರ್ನಾಟಕ, ತುಂಗಾ ಮೊಗ್ಗಿಂದ ಯೋಜನಾ ಮೂಲ, ಶಿವಮೊಗ್ಗ ಇವರ ಮಾಹಿತಿಗಾಗಿ ಕಳುಹಿಸಿದೆ.

A Concern for Water.

Karnataka Neeravari Nigam Limited
Regd. Office: 4th Floor, Coffee Board Building, No. 1, D- B.R. Ambedkar Veedhi, Bangalore - 560 001 Ph: 22355011
Fax: 22355015 CH: 085110KA19985GCG024503 Website: www.knnnigam.com

Letter from MD, Karnataka Neeravari Nigam (KNN) permitting the use of 41 MLD water from Varahi River to Udupi city

Karnataka Neeravari Nigam Limited

No:KNN/238/TVP/2017-16/

Dated:15.12.2017

To

Secretary to Government
Water Resource Department
Vikasa Soudha , Bengaluru

Sir,

Sub: Request for sanction Permission to use 41MLD Water from Varahi River

to Udupi city

Ref: Letter no:3081 Dated :26.10.2017 from Chief Engineer, Shivamoga.

In the reference cited on subject mentioned above, the Chief Engineer Shivamoga has submitted proposal requesting to grant permission for the use of 41 MLD water from Varahi River to Udupi city and submitted report as here below.

It is reported that in Varahi River the water flow is more than 41 MLD ie: as per gauge @75% dependable yield 40.61cumecs , hence opined that 41 MLD water can be used for providing drinking water supply for Udupi city and submitted the proposal for grant of permission.

Since first preference shall be given for drinking water as per the National Water Policy , the permission to use the 41 MLD water from Varahi River to Udupi city may be granted and the proposal submitted is enclosed herewith for further necessary action.

Yours faithfully

Managing
Director
KNNL ,Bengaluru

5. A negotiated settlement has been entered into between the Municipal Commissioner, Udupi CMC and Mr K Jayaprakash Hegde, the private owner of the 0.6 acre site for the proposed WTP at Halady. The total payment was Rs 92, 38, 011. See below the sale deed between Mr K Jayaprakash Hegde and Municipal Commissioner, Udupi dated 30 Dec 2019 for the sale of 0.6 acres of land at Halady village, Udupi for the construction of the Water Treatment Plant.

Sale deed documents / details of immovable property for reward

amount of Rs.92,38,011/-

On behalf of Governor of State of Karnataka to the present Municipal Commissioner of Udupi City Municipal Council in Udupi, Udupi taluk, Udupi District Dr.Anand C. Kallolikar, S/o.Chidananda Aged about 48 years (Sale deed documents / details);

S/o. Late Chandrashekar Hegde and Late Girija C. Hegde residents of Koorgi Village, Kundapura Taluk, Udupi district (Legal heirs of the property)

1. K. Jayaprakash Hegde - aged about 68 years
2. Shobha J. Hegde – aged about 59 years
3. Divya Hegde – aged about 34 years
4. Nishanth Hegde – aged about 30 years

Dated 30-12-2019

As per the Power of Attorney dtd.17.08.2019 given by 2 to 4 (Legal heirs of the property) and Notarized by Sri.Stiven Victor Louis, Notary of Brahmavar town and which is still valid 1 (Legal heirs of the property) Sri.K. Jayaprakash Hegde as an agent and on behalf of 2 to 4 (Legal heirs of the property) executed this Sale deed document;

Sl.no	Survey numbers	Land type	Area (Acre. Gunta)
1	120/17	Wet	0.60

Survey number 120/7 had been changed to 120/17

East	
West	
South	
North	

<u>2</u>	<u>120/26</u>	<u>Wet</u>	<u>2.34</u>
<u>East</u>	<u>Sy.no 120/28, 15, 14,</u> <u>Block number 1</u>		
<u>West</u>	<u>Sy. No. 120/8, 11, 18</u>		
<u>South</u>	<u>Sy.No. 120/17, 24, 23,</u> <u>sy. No. 121</u>		
<u>North</u>	<u>Sy. No. 120/12, 25,</u> <u>14, 23, Sy. No. 121</u> <u>and Block number 1</u>		

Above mentioned land has been mentioned as 16011219119551001 in point number 2 of the sketch

Immovable scheduled property in Sl.No. 3 had been sold to Legal heir number 1 by Smt.seethu handthi on 19.07.2019 and which has been Registered bearing Registration NNo.SKND244 entered under Sl. No. SKN-I-00838/2019-20 in Register 1 maintained in

Sub-Registrar office of Shankara Narayana town

Sl. No.	Survey number	Land type	Area (Acre. Gunta)
3	120/25	Wet land	0.27
East	Land in Sy. No. 120/26		
West	Land in Sy. No. 120/13		
South	Land in Sy. No.120/26		
North	Land in Sy.No. 120/10		

Immovable scheduled property in Sl. No. 4 had been sold to Legal heir 1 by sri.Subba Handa on 19.07.2019 and Registered bearing Registration No. SKND244 entered under Sl. No.SKN-I-00837/2019-20 and said property had been owned by Legal heir (1 to 4) and property is under legal heir control

Sl. No.	Survey number	Land type	Area (Acre. Gunta)
East	Sy. No. 120/23		
West	Sy. No. 120/26		
South	Sy. No. 120/26		
North	Sy. No. 120/25		

Survey Map



Signed by

1. K. Jayaprakash Hegde
2. Shobha J. Hegde
3. Divya Hegde
4. Nishanth Hegde

Commissioner, CMC Udupi

6. **Public Consultations:** A site inspection and consultation/ discussion with community/ stakeholders was conducted along the alignment of the associated projects on 9th October 2017. This was to verify that the construction of the alignment would not adversely affect the villages along the alignment either temporarily or permanently. The project's representatives informed the participants that the project design would include a provision for bulk (raw) water availability for en-route villages, which they would have to treat and distribute. Some of the critical comments made during the discussions included:
- (vi) Welcoming and appreciating the project;
 - (vii) Awareness of the project and its components;
 - (viii) Willingness to spread information about the project;
 - (ix) Requesting that the project be completed as soon as possible and with as little disturbance to people; and
 - (x) Requesting that the project provide water to the people along the alignment as water availability and supply is low in the summer months

**Consultation/ Discussions with stakeholders/ community along Associated
Facility- Bulk Alignment- 9th Oct 2017**

No	Name and address of the person consulted	Contact No	Will the project cause any social issue?	Suggestions for the proposed project
1	Mr. Gopalakrishna S/o Shankara Ganiga Durgashree Kulunje Village and Post	9449469874	No	Welcomes the project. Pipe line should be laid in the ROW of the existing road.
2	Mr. Bhaskar S/o Thimmappa S. Kanchan ,Vegetable shop, Hebri Road Haladi	9880719159	No	Welcomes the project. He will inform villagers about the proposed subproject implementation.
3	Mr. Sanjeeva S/o Ganapa Kulal Durgashree Stores,Hebri Road, Haladi	9663262495	No	Welcomes the project. Trenches should be closed immediately after completion of the pipe laying work.
4	Mr. Durga Naik S/o Kalu Naik Ex- Vice president Gram Panchayat Haladi, 76 Haladi Village, 28 Haladi Post Kundapura Taluk, Udupi District	9743575981	No	Welcomes the project. Planks should be provided during implementation of civil work. Access roads to the connecting villages should not be blocked.
5	Mr. Shankar Shetty S/o Sanjeeva Shetty Petty shop besides Theertha Vinayaka Temple Arch, Chirodi village, Avarse Post, Kundapura Taluk, Udupi District	9902781804	No	Welcomes the project. He is aware of the proposed sub since the survey for preparation of DPR.
6	Mr. Jayakara Poojari S/o Kushala Poojari Friends Flower stall, Shiroor Moorkai, Heggunje village, Mandarthi Post, Kundapura Taluk, Udupi District	9740948611	No	Welcomes the project. He has observed the survey for DPR preparation.
7	Mrs. Sharada W/o Ganesh Upadhaya Hotel Krishna Bhavan, Kokkarne, Bramhavara Taluk, Udupi District	0820- 2598628	No	Welcomes the project. Information should be provided about details of construction
8	Mrs. Vishalakshi W/o Chandayya Shetty Sarvodaya dialing point, Kukkehalli, Udupi District.	9591892653	No	Welcomes the project. She is aware of the project because she interacted during survey for preparation for DPR. She indicated that water to their village should be provided from the proposed project.

Photographs of consultation/ discussions with stakeholders/ along Associated Facility-Bulk Alignment- 9th Oct 2017



Consultation with the villager of Kulunje village



Consultation with the vegetable shop Hebri Road, Haladi



Consultation with the shop owner Hebri Road, Haladi



Consultation with the Ex- Gram Panchayat Vice- president of Haladi in his shop.



Consultation with the shop owner of Chirodi Village



Consultation with the flower stall owner of Shiroor Moorkai, Heggube Village



Consultation with shop owner in Kukkehalli Village

