



Environmental Monitoring Report

Project Number: 43253-025
February 2020
Part A: Main Report (Pages 1 – 68) and Appendices

Period: July 2019 – December 2019

IND: Karnataka Integrated Urban Water Management Investment Program - Tranche 1

Submitted by

Karnataka Urban Infrastructure Development & Finance Corporation (KUIDFC)

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Asian Development Bank

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Sent: Tuesday, February 25, 2020 3:45 PM

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Subject: [Possible Forged Sender]Re: Semi Annual Environmental Monitoring Report (SEMR) for the period of July to December- 2019 (Tranche-1)

Dear Sourav,

Please find link below of the SEMR (EGIS) Jul to Dec 2019 of Tranche 1

https://drive.google.com/open?id=1IIZPHHCA91-Fh_ClgoVtNg77hGrbYE_M

Best regards,

Shashi



Soft copy recd 25.02.20

Semi Annual Environmental Monitoring Report

ADB Loan Number 3148-IND
Period Covered: July to December 2019

**India: Karnataka Integrated Urban Water
Management Investment Program (KIUWMIP)**

Tranche 1- 10th Report

January 2020



Prepared by
Karnataka Urban Infrastructure Development Finance Corporation
(KUIDFC) Government of Karnataka for Asian Development Bank

ABBREVIATIONS

ADB	Asian Development Bank
ADB SPS	Asian Development Bank Safeguard Policy Statement
APMC	Agricultural Produce Market Committee
BOD	Bio-Chemical Oxygen Demand
BPL	Below Poverty Line
CAP	Corrective Action Plan
CBO	Community Based Organizations
CC	Complaint Cell
CC Drain	Cement Concrete Drain
CFE	Consent for Establishment
CFO	Consent for Operation
CGWB	Central Ground Water Board
CMC	City Municipal Council
CPCB	Central Pollution Control Board
dbA	Decibels
DI	Ductile Iron
DPR	Detailed Project Report
DS	Double Suction
EA	Executing Agency
EAC	Expert Appraisal Committee
EC	Environmental Clearance
EIA	Environmental Impact Assessment
ELSR	Elevated Storage Reservoir
EMP	Environmental Management Plan
GDP	Gross Domestic Product
GIL	Grasim Industries Limited
GoI	Government of India
GoK	Government of Karnataka
GLSR	Ground Level Service Reservoir
GRC	Grievance Redress Committee
HDPE	High Density Polyethylene
H&S	Health and Safety
IA	Implementing Agency
IEE	Initial Environmental Examination
IWRM	Integrated Water Resource Management
KIUWMIP	Karnataka Integrated Urban Water Management Investment Program
KMRP	Karnataka Municipal Reforms Project
KSPCB	Karnataka State Pollution Control Board
KSRTC	Karnataka State Road Transport Corporation
KTCP	Karnataka Town and Country Planning
KUIDFC	Karnataka Urban Infrastructure Development & Finance Corporation
KUWSDB	Karnataka Urban Water Supply & Drainage Board
M&M	Major and Medium
MFF	Multitranchise Financing Facility
MoEFCC	Ministry of Environment, Forest & Climate Change
MSL	Mean Sea Level
NGO	Non-Government Organization

NKUSIP	North Karnataka Urban Sector Investment Program
NO ₂	Nitrogen Oxide
NRW	Non Revenue Water
OCRPF	Office of Compliance Review Panel
OHT	Over Head Tank
OSPF	Office of the Special Project Facilitator
O&M	Operation & Maintenance
PC	Program Consultants
PCU	Project Co-ordination Unit
PMU	Program Management Unit
PMDSC	Project Management Design and Construction Supervision Consultant
PMSC	Project Management and Construction Supervision Consultant
PIU	Program Implementation Unit
PWD	Public Works Department
RCC	Reinforced Cement Concrete
REA	Rapid Environmental Assessment
RF	Resettlement Framework
RP	Resettlement Plan
RPMU	Regional Program Management Unit
RSPM	Residual Suspended Particulate Matter
SC	Scheduled Caste
SEIAA	State Environmental Impact Assessment Authority
SPM	Suspended Particulate Matter
SPS	Sewage Pumping Station
ST	Scheduled Tribe
STP	Sewage Treatment plant
SW	Stone Ware
TMC	Town Municipal Council
ToR	Terms of References
UGD	under Ground Drainage
ULB	Urban Local Body
UDWSP	Urban Drinking Water & Sanitation Policy
USD	US Dollars
(U)WSS	(Urban) Water Supply & Sanitation

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I. INTRODUCTION

A. Background

1. The Karnataka Integrated Urban Water Management Investment Program (KIUWMIP, the Program) aims to improve water resource management in urban areas in a holistic and sustainable manner. Investment support will be provided to modernize and expand urban water supply & sanitation (UWSS) while strengthening relevant institutions to enhance efficiency, productivity and sustainability in water use. The Program focuses on priority investments and institutional strengthening in water supply & sanitation within an IWRM context.
2. The Program is being implemented over a four-year period and will be funded by a loan via the Multitranche Financing Facility (MFF) of Asian Development Bank (ADB). The Executing Agency is the Karnataka Urban Infrastructure Development Finance Corporation (KUIDFC) and implementing agencies for the Investment Program will be respective Urban Local Bodies (ULBs).
3. The programme proposes the MFF spread across two tranches over a period of ten years (2014-2024) with the total size of \$225 M. The shares of ADB propose to be \$150 million and counterpart funding from the state Government is estimated at \$75 million. In addition to the Loan funds of \$150M, the ADB has agreed to support the programme with an additional amount of \$1.8 M as a grant fund out of its urban financing partnership facility.
4. In Tranche-1, main outcome will be providing 24 x 7 Water Supply at Davanagere, Harihara and Byadgi towns. Location of Project Towns is shown in **figure-1**. ADB requires the consideration of environmental issues in all aspects of the Bank's operations, and the requirements for Environmental Assessment are described in ADB's SPS (2009). This Initial Environmental Examination (IEE) addresses 24 x 7 water supply components proposed under Tranche 1.
5. The Program Management Unit (PMU) is located in Bangalore, Regional Program Management Unit (RPMU) in Davanagere and Program Implementation Unit is also placed in Davanagere city. The Project Management Construction Supervision Consultant (PMCSC, Egis India Consulting Engineers Pvt.Ltd) is also in placed.

B. Purpose of the Report

6. **Environmental Categorization.** KIUWMIP Tranch-1 towns have been classified as ADB Environmental Category B as per the SPS as no significant impacts are envisioned. Accordingly this Initial Environmental Examination (IEE) has been prepared, and assesses the environmental impacts and provides mitigation & monitoring measures to ensure no significant impacts as a result of the subproject.
7. This report is the semi-annual environment monitoring report (SEMR) covering period **July to December 2019** under Egis India Consulting Engineers Pvt.Ltd. **Scope**, i.e water supply distribution network sub project. This SEMR describes the implementation of the environmental management plan (EMP) in Davanagere, Harihara and Byadgi city water supply distribution network subproject IEE.



Figure 1: Location of project towns

II. IMPLEMENTATION PROGRESS

A. Status of Subprojects under Tranche 1

8. There are 3 **sub projects** in Tranche-1 (Project1) under Egis India Consulting Engineers Pvt.Ltd Scope. Physical construction has been started for all three sub projects one at Byadgi (Distribution Network), one sub project at Harihara (Distribution Network) and one sub project at Davanagere (Distribution Network). All 3 sub projects under Egis India Consulting Engineers Pvt.Ltd. scope are presently under implementation. Status of sub-projects is given in **Table 1**. Site photographs are attached as **Appendix 1**.

Table 1: Status of Sub Project under Tranche 1 (Upto 31st December 2019) – Egis India Consulting Engineers Pvt.Ltd. Scope

Town	Package No.	Component	Start Date	Number of Days/Months to Complete Work	Schedule Completion date	Works completed/ under execution	% Physical Progress against total Quantity as of 31 st December 2019	Package Completed as of 31 st December 2019
Davanagere	01WS05	<ul style="list-style-type: none"> • Clear Water Transmission Main (69.164 Km) • Construction of Over Head Tanks (18 No.) • Distribution Water Pipeline Works (1338.67 Km) • House Service Connections (97589 Units) 	18.10.2018	38 months	17.01.2022	<ul style="list-style-type: none"> • Laying of Clear Water Transmission Main for a length of 34.32 Km • About 36.85% Work for OHTs completed • Laying of Distribution water pipelines completed for a stretch of 646.07 Km • Total 3723 House Service Connections completed 	<p>50%</p> <p>37%</p> <p>48%</p> <p>4%</p>	<p>No</p> <p>The Locations of Various OHTs,WTPs are shown in Appendix 18.</p> <p>The progress of Pipe Laying Work of last six months is shown in Appendix 20.</p> <p>The progress of House Service Connection of last six months is shown in Appendix 21</p>
Harihara	01WS04	<ul style="list-style-type: none"> • Distribution pipeline of 	01.12.2017	28 months	31.08.2019 Extension up to	Cumulative Progress Up to December-2019		No

Town	Package No.	Component	Start Date	Number of Days/Months to Complete Work	Schedule Completion date	Works completed/ under execution	% Physical Progress against total Quantity as of 31 st December 2019	Package Completed as of 31 st December 2019
		263.504 km ranging from 63mm diameter to 400mm diameter. <ul style="list-style-type: none"> • Installation of 544 valves • Providing 14,000 number of House service connections • Construction of 2 Over Head Tanks • Bulk Flow Meter 			31.03.2020	<ul style="list-style-type: none"> • Laying of pipeline 241.07 km completed. • 341 Valves have been installed • About 11738 numbers of Installations of House Service Connection meters completed • Construction of 2 Over Head Tanks • Bulk Flow meter work 70% completed 	91.49% 63% 84% 65% 70%	
Byadgi	01WS03	<ul style="list-style-type: none"> • Distribution pipeline of 111.956 Km ranging from 63mm diameter to 300mm diameter. 	16.08.2017	31 months	15.08.2019 Extension up to 31.03.2020	Cumulative Progress Up to December -2019 <ul style="list-style-type: none"> • Laying of pipeline for 95.35 km completed 	85.13%	No

Town	Package No.	Component	Start Date	Number of Days/Months to Complete Work	Schedule Completion date	Works completed/ under execution	% Physical Progress against total Quantity as of 31 st December 2019	Package Completed as of 31 st December 2019
		<ul style="list-style-type: none"> • Providing 7389 number of House service connections. • Construction of one 1LL capacity OHT at Nehru Nagar. 				<ul style="list-style-type: none"> • 3025 numbers of House Service Connections have been installed • 94% work of OHT has been completed 	<p>49.70%</p> <p>94%</p>	

B. Compliance to Safeguard Loan Covenants

9. The loan agreement for KIUWMIP Project 1 was signed on 30th December 2014 and available in ADB website (<http://www.adb.org/sites/default/files/project-document/153027/43253-025-lbj.pdf>). **Table 2** provides a summary of compliance to the loan covenants related to environmental safeguards.

Table 2: Compliance to Loan Agreements (Environmental Safeguards)

Serial no. as per loan agreement	Program Specific Covenants	Status / Issues
Schedule 4 Item 9	<p>Procurement of Goods, Works and Consulting Services</p> <p><u>Conditions for Award of the Contract</u></p> <p>The Borrower shall ensure or cause the EA to not award any Works contract for a Subproject which involves environmental impacts until the EA has:</p> <p>a) Obtained the final approval of the IEE from the relevant environment authority of the Borrower and the State, and ADB; and</p> <p>b) Incorporated the relevant provisions from the EMP into the Works contract.</p>	<p>a) Obtained concurrence from ADB for Updated IEE for Water Supply Distribution network packages of Davanagere, Byadgi & Harihara.</p> <p>b) Incorporated EMP into the works contract of Davanagere, Harihara and Byadgi water supply works.</p>
Schedule 5 Item 10	<p>Safeguards –Environment</p> <p>The Borrower shall ensure or cause the EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, and all projects' facilities comply with (i) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; (ii) the Environmental Safeguards; (iii) the EARF; and (iv) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p>Under compliance</p> <p>Document is prepared by complying all relevant State and National Laws, Safeguard Policy Statement (SPS 2009) of ADB, Environment Assessment Review Framework (EARF) for Tranche-1 program. Same will be followed for subsequent Tranches.</p> <p>For Tranche-1 project Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB.</p> <p>IEE has been prepared for water supply Distribution Network packages at Davangere, Harihara and Byadgi and all the reports accepted by ADB and disclosed on March 2017, November 2016 and December 2016 respectively in ADB website.</p> <p>All safeguard measures and requirements as prescribed in IEE/EIA and EMP being considered during implementation.</p> <p>Corrective or preventive action plans including personal protection will be reflected in Environment Monitoring Report and project implementation authority will be taken care.</p>
Schedule 5 Item 14	<p>Human and Financial Resources to Implement Safeguards Requirements</p> <p>The Borrower shall make available, or cause the EA to make available, all necessary budgetary and human resources to fully implement the EMP required.</p>	<p>Complied</p> <p>Budgetary provisions have been included in EMP of Tranche-1 sub projects.</p> <p>Environment Engineer (Asst. Executive Engineer) is placed in PMU</p> <p>Human resource (project consultant, i.e Environmental Specialist of PMCSC) for</p>

Serial no. as per loan agreement	Program Specific Covenants	Status / Issues
		implementation of EMPs is in place for regular compliance.
Schedule 5 Item 15	The Borrower shall ensure, or cause the EA to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to: comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP, the RP and the IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;	<p>Under compliance</p> <p>Approved IEE, EMP for Tranche-1 project is attached in Bidding documents. This process will be followed for all the sub projects within the present Tranche and subsequent Tranches.</p> <p>In case of any change of scope, revised IEEs, EMPs will be prepared and corrective measures will be disclosed to contractor and same will be reflected in the "Environment Monitoring Report"</p> <p>For Tranche-1 project Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB. IEE has been prepared for water supply Distribution Network packages at Davangere, Harihara and Byadgi and all the reports accepted by ADB and disclosed on March 2017, November 2016 and December 2016 respectively on ADB website.</p> <p>Corrective actions were taken on the contractor regarding 1) To ensure PPE at all on-going sites, 2) arrangement of public safety, 3) disposal of waste and 4) camp site management</p> <p>(b) IEE indicates budgetary provisions for implementation of EMP</p> <p>Appendix 2 shows budgetary provision for safeguard implementation under different packages</p> <p>(c) With the development of sub project and implementation, in case of additional impacts/risks due to change in scope/area, that will be reflected in the revised IEEs, EMPs and Environment Monitoring Report and accordingly project Executing Agency will inform the Construction Agency for taking relevant corrective measures.</p> <p>Till date no unanticipated environmental risks or impacts reported</p> <p>(d) Haul roads will be marked properly (by avoiding residences and agricultural land) before commencement of transportation of materials.</p>

Serial no. as per loan agreement	Program Specific Covenants	Status / Issues
	<p>(b) make available a budget for all such environmental measures;</p> <p>(c) provide the EA with a written notice of any unanticipated environmental risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP or the IPP;</p> <p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>	<p>(e) Pathways, land which are likely to be affected for a short period during implementation of the sub project will be restored by concerned construction agency before acceptance of the work. Restoration status will be reflected in post construction monitoring report</p>
Schedule 5 Item 16	<p>Safeguards Monitoring and Reporting</p> <p>The Borrower shall cause the EA to do the following:</p> <p>(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p> <p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any breach of compliance with the measures and requirements set forth in the EMPs, promptly after becoming aware of the</p>	<p>Under compliance</p> <p>(a) This is 10th semi-annual Safeguards Monitoring Report is prepared for the period July to December 2019, covering Egis India Consulting Engineers Pvt.Ltd. scope i.e. Water supply distribution network.</p> <p>9th SEMR for the period January to June 2019 which submitted to ADB, already disclosed in ADB website</p> <p>(b) With the development of project and implementation, in case of additional impacts/risks due to change in scope/area, will be reflected in revised IEEs, EMPs and accordingly Executing Agency (EA) will inform the ADB along with corrective action plan which will be reflected in the Monitoring Report.</p> <p>(c) In case of any breach of compliance with the measures and requirements set forth in the EMP, EA will be promptly informed to ADB and suitable corrective action plan will</p>

Serial no. as per loan agreement	Program Specific Covenants	Status / Issues
	breach.	be planned.
Schedule 5 Item 17	Prohibited List of Investments The Borrower shall ensure or cause the State to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Complied Under Tranche -1, there is no violation of prohibited investment activities as per ADB SPS (2009) Appendix 5. Same will be followed in subsequent Tranches
Schedule 5 Item 18	Other Social Measures The EA shall ensure that civil works contracts under the Project follow all applicable labor laws of the Borrower and the State, and that these further include provisions to the effect that contractors: (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts will also include clauses for termination in case of any breach of the stated provisions by the contractors.	Complied in document and during implementation Provisions are included and carried out (as per EMP & BID document) HIV/AIDS awareness programs for construction contractor, application of all relevant labour laws for health and safety including child labour law and engagement of local labours (preferably from economically backward group) covering women labours. In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken. All activities including awareness program will be reflected in "Monitoring Report".

C. Implementation Arrangement

10. Overall Implementation Arrangement. Karnataka Urban Infrastructure Development & Finance Corporation (KUIDFC) is the Executing Agency (EA) responsible for implementing the Investment Program. Investment Program implementation activities is monitored by KUIDFC through a separate Investment Program Management Unit (PMU) for the IWRM Project, which setup within KUIDFC.

11. At the Executing Agency (i.e. KUIDFC), environmental issues will be coordinated centrally by an Environmental Specialist (Designated as Assistant Executive Engineer–Environment), reporting to the Task Manager, Assistant Executive Engineer– Environment will ensure that all subprojects comply with environmental safeguards. The IEE/ EIA reports prepared by the Consultant, and will be reviewed by the Assistant Executive Engineer–Environment as per the ADB's Environmental Guidelines and forwarded to ADB for review and approval.

12. The consultant team includes an Environmental Specialist to supervise the implementation of environmental safeguards at the divisional level. The consultant team also includes a Construction Supervisor at each ULB/CMC/TMC responsible for the supervision of project implementation including environmental safeguards at the ULB/CMC/TMC level.

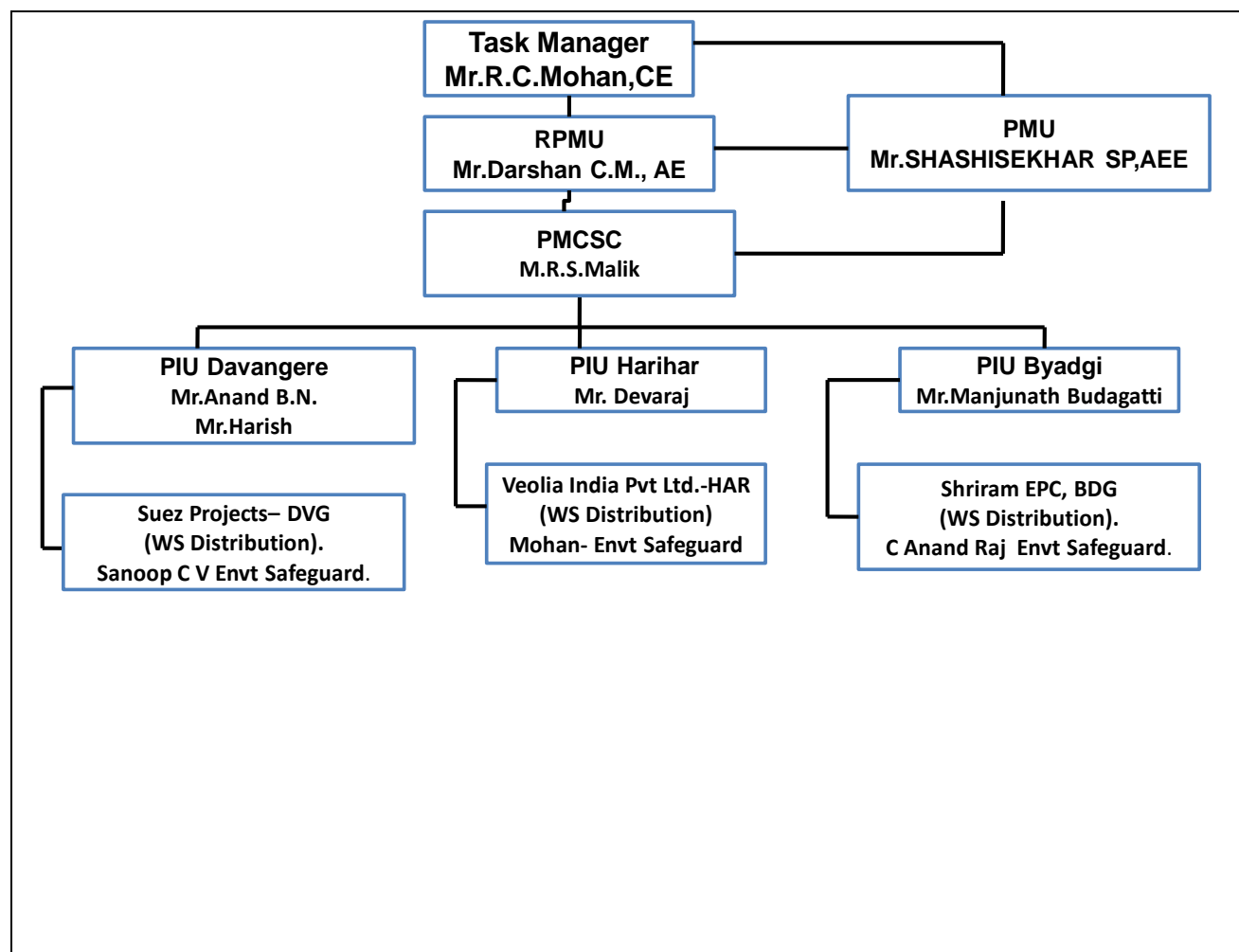
13. The contractor shall appoint one supervisor (environment & safety officer) who will be responsible on a day-to-day basis for i) ensuring implementation of EMP ii) Coordinating the CS Engineer and environment specialists (all levels) iii) community liaison, consultation with interested/affected parties and grievance redressal and iv) reporting.

14. **Reporting arrangement.** Construction contractor monitoring safeguard implementation daily basis, while construction Supervisor (Resident Engineer) reviewed safeguard implementation weekly. After review they advise construction contractor for corrective measures. Monthly report summarizing observation, compliance & corrective measures is prepared by Environment Specialist of consultant on monthly basis. Then reports are forwarded from PIU to PMU for their observation and record. Based on monthly reports and site observations, Assistant Executive Engineer (Environment) of PMU, will review and consolidate the semi-annual environment monitoring report for onward submission to ADB. **Table 3** shows activity and responsibility on safeguard implementation.

Table 3: Activity, Roles and Responsibility – Safeguard Implementation

Investment Program Phase	Activity	Details	Responsible Agency
Pre-construction phase	Investment Program Categorization	Conduct Rapid Environmental Assessment (REA) for each subcomponents using REA checklists	ULB
		Reviewing the REA and assigning Investment Program category (A/B/C) based on KIUWMIP Environmental Assessment Guidelines and ADB Guidelines	PMU
	Conducting EA	Conducting IEE / EIA based on the Investment Program categorization Conducting Public Consultation and information disclosure Preparation of IEE / EIA	PMDCS consultant
	Investment program clearances	Fulfilling GoK/Gol requirement such as clearances from other Government Agencies	ULB
	Review of EIA/IEE	Reviewing the EIA/IEE Reports to ensure compliance thereof as per ADB Guidelines and approval of the same	PMU
	Disclosure of EIA/IEE	Information disclosure – IEE/EIA reports should be made available to the public, and on request IEE/EIA also made available.	ULB
	Incorporation of mitigation measures into Investment Program design	Incorporation of necessary mitigation measures identified in IEE/EIA in Investment Program design and in contract documents.	PMDCS consultant
	Review of design documents	Review of design and contractual documents for compliance of mitigation measures	PMDCS consultant
Construction Phase	Implementation of mitigation measures	Implementation of necessary mitigation measures	Contractor
	Environmental Monitoring	Environmental monitoring as specified in monitoring plan during construction stage; Monitoring of implementation of mitigation measures	PMCS consultant
	Preparation of progress reports	Preparation of monthly progress reports to be submitted to PMU including a section on implementation of the mitigation measures	PMCS consultant
	Review of progress reports	PMU to review the progress reports, consolidate and send to ADB review	PMU
Operation Stage	Environmental Monitoring	Conducting environmental monitoring, as specified in the environmental monitoring plan.	ULB/ Contractor
	Compliance Monitoring	Compliance monitoring to review the environmental performance of sub-project component, if required and as specified in Monitoring Plan.	KSPCB

15. **Figure 2** shows the implementation arrangement for environment safeguard. PMU includes a full-time Assistant Executive Engineer (Environment). As on 31st December 2019 position of Assistant Executive Engineer (Environment) is filled up and also Environment Specialist of PMCSC (Program Consultant) has been placed.



AEE: Assistant Executive Engineer, PIU: Project Implementation Unit, PMCSC: Project Management & Construction Supervision Consultant, PMU: Project Management Unit, RPMU: Regional Project Management Unit

Figure 2: KIUWMIP Safeguards Implementation Arrangement

16. **Table 4** shows details of environment safeguard team for KIUWMIP. Environment Specialist of PMCSC and Asst. Executive Engineer (Environment) KIUWMIP-KUIDFC visit to project site almost every month to review EMP implementation.

Table 4: Details of KIUWMIP Environmental Safeguard Team

Designation	Name and Contact Details
Asst. Executive Engineer (Environment) KIUWMIP-KUIDFC Project Management Unit (PMU)	Name: Mr. Shashisekhar SP Office Address Karnataka Urban Infrastructure Development & Finance Corporation Ltd Urban Infrastructure Bhavan Building, #22, 17 'F' Cross Binnamangala, 2 nd Stage, Old Madras Road Indiranagar, Bangalore – 560 038. Phone: 080-22232021, 9343434900

Designation	Name and Contact Details
	Email: shashisekharsp@kuidfc.com
Assistant Executive Engineer, AEE, PIU, Davangere, Package 01WS05	Name: Mr. Shiva Shankar Office Address: KUIDFC-KIUWMIP #1976/9, Corporation zonal office besides Ashraya Hospital, Shamnur road, Mcc 'a' block, Davangere-04 Phone: 09448225239 Email: piukiuwmp.dvg@gmail.com
Assistant Engineer, AE, PIU, Davangere, Package 01WS05 In-charge Environment safeguard compliance	Name: Mr. Anand B.N Office Address: KUIDFC-KIUWMIP #1976/9, Corporation zonal office besides Ashraya Hospital, Shamnur road, Mcc 'a' block, Davangere-04 Ph: 8884563222
Assistant Engineer, AE, PIU, Davangere, Package 01WS05 In-charge Environment safeguard compliance	Name: Mr. Harish Office Address: KUIDFC-KIUWMIP #1976/9, Corporation zonal office besides Ashraya Hospital, Shamnur road, Mcc 'a' block, Davangere-04 Ph: 07892967690
Assistant Executive Engineer, AEE, PIU, Harihara, Package 01WS04	Name: Mr. Jagadeesh J M Office Address: KUIDFC-KIUWMIP Harihara City municipal Council Phone: 09591071068
Assistant Engineer, AE, PIU, Harihara, Package 01WS04 In-charge Environment safeguard compliance	Name: Mr. Devaraj Office Address: KUIDFC-KIUWMIP Harihara City municipal Council Phone: 7829800555
Assistant Executive Engineer, AEE, PIU, Byadgi, Package 01WS03	Name: Mr. Naveen Kumar H V Office Address: KUIDFC-KIUWMIP #Town Municipal Council, Byadgi, Haveri District Phone: 9986542126 Email: aeeikiuwmpbyadgi@gmail.com
Assistant Engineer, AE, PIU, Byadgi, Package 01WS03 In-charge Environment safeguard compliance	Name: Mr. Manjunath Budagatti Office Address: KUIDFC-KIUWMIP #Town Municipal Council, Byadgi, Haveri District Phone: 9880174404
PMCSC, Environment Specialist	Name: M.R.S.Malik (Egis India Consulting Engineers Pvt.Ltd.) Office Address: PMCSC, KUIDFC-KIUWMIP #1976/9, Corporation zonal office besides Ashraya Hospital, Shamnur road, Mcc 'a' block, Davangere-04 Phone: 09177390560 Email: Mahmad.m@egis-india.com
PMCSC, Support staff – Environment monitoring	Name: Mr. Nagaraj Office Address: PMCSC, KUIDFC-KIUWMIP #1976/9, Corporation zonal office besides Ashraya Hospital, Shamnur road, Mcc 'a' block, Davangere-04 Phone: 9844727321 Email: egis.davanagere@gmail.com
Veolia India Pvt Ltd	Name: Mr. Mohan T

Designation	Name and Contact Details
Contractor – Package 01WS04 Environment Safety Engineer	Office Address: HIG-100, Behind new court, Amaravathi colony, Harihara Phone: 9902294842 Email: mohan.kumar@veolia.com
Shriram EPC Ltd- Contractor – Package 01WS03 Environment Safety Engineer	Name: Mr. Anand Raj Office Address: #37, 4 th cross, 4 th ward, Nehru Nagara, Byadgi, Haveri Dist, Karnataka- 581106 Phone: 9148976809 Email: anandtkvl@gmail.com
Suez Projects Pvt Ltd- Contractor – Package-01WS05	Name: Mr. Sanoop C V Office Address: Besides Income tax office, Hadadi Road, Davanagere, Davanagere District, Karnataka- 577004 Phone: 9686005144 Email: sanoop.veetil@suez.com

17. Contractor team carried out regular environment monitoring. Budget for environment monitoring is disclosed in **Appendix 2**.

III. ENVIRONMENTAL PROCEDURE REVIEW

A. Compliance with Environmental Legal Requirements (Consents & Statutory clearances)

18. **Table 5** provides the status of compliance of subprojects (Under Egis India Consulting Engineers Pvt Ltd. Scope) to national and state laws, rules, policies and regulations applicable to KIUWMIP Project 1. **Table 6** gives status of the government line department clearances.

Table 5: Status of Compliance with National and State Legal Requirements (31st December 2019) - Egis India Consult. Scope only

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
Davangere	01WS05	Construction of Distribution Network-Operator assisted in Davangere including 8 Years O & M of 24 x 7 Davangere Water Supply System	Water (Prevention and Control of Pollution) Act, 1974	During implementation of project compliance with Air Act, Noise Rules and Water Act will be required	
			The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987		
			Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Labour Licence Received. It is valid up to 18.05.2020	Labour licence enclosed as Appendix 3
			Labour compensation insurance	Received and was valid up to	Labour compensation

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
				17.06.2020	insurance policy attached as Appendix 4
Harihar	01WS04	Construction of Distribution Network-Operator assisted in Harihara including 8 Years O & M of 24 x 7 Harihara Water Supply System	Water (Prevention and Control of Pollution) Act, 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987	During implementation of project compliance with Air Act, Noise Rules and Water Act will be required	
			Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Labour license renewed and which is valid upto 01.09.2020	Labour licence enclosed as Appendix 3
			Labour compensation insurance	Received and validity is up to 23.11.2020	Labour compensation insurance policy attached as Appendix 4
Byadgi	01WS03	Construction of Distribution Network-Operator assisted in Byadgi including 8 Years O & M of 24 x 7 Byadgi Water Supply System	Water (Prevention and Control of Pollution) Act, 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987	During implementation of project compliance with Air Act, Noise Rules and Water Act will be required	
			Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	The Labour licence is valid up to 10.2. 2020.	Labour licence enclosed as Appendix 3
			Labour compensation insurance	It is valid up to 25.06.2020.	Labour compensation insurance policy attached as Appendix 4

Note: Permissions will be obtained on utilities like BSNL, BESCOM as & when required

Table 6: Status of the Government Line Departments clearances (31st December 2019)

Town	Package	Government Line Departments	Permission Status	Remarks
Davangere	01WS05	National Highway Authority of India (NHA)	Under Progress	Attached as Appendix 5
		Karnataka State Highway Improvement Project (KSHIP)	Permission obtained	Attached as Appendix 5
		Railway Department	Permission obtained	Attached as Appendix 5
		Public Works Department (PWD)	Under progress	Attached as Appendix 5
Harihara	01WS04	Public Works Department (PWD)	Permission obtained	Attached as Appendix 5
Byadgi	01WS03	Public Works Department (PWD)	Permission obtained	

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

19. Civil works (mainly pipe laying and construction work) continued for all the water supply distribution awarded packages. Site-specific EMP was prepared by the contractor and submitted to PMSCS for approval. Sample site specific EMP are attached as **Appendix 7**.

20. Daily, weekly and monthly monitoring is continued for all the running packages. The overall compliance status for all the 3 running packages (**under Egis India Consult. Scope**) during report period is satisfactory. Improvement is noted for all the running packages. Compliance status of mitigation measures against impact field is given in **Table 7 to 9**.

21. There are few partial compliance status has been noted for the running packages.

- Project display board with emergency and contact numbers of PIU/ ULB, contractor and PMSCS for registering any complaints or suggestions should be provided at Harihara Package.
- Need to improve use of PPE by contractor's workers. Use of PPE should be at all times as per site condition and work type. Particularly use of shoes, hand gloves and safety belt (when working at height)
- Temporary placement of caution tape is noted for all the packages. Improvement/ complete use of caution tape at all working areas required
- Improvement of housekeeping is required for Harihara and Byadgi packages.
- Standard of Labour Camps at Harihara package should be enhanced.
- Improvement in standard is required for Toilet, Bathroom facility at all three packages.

- Improvement is required for the first aid box. First aid materials which get exhausted after use are to be kept immediately.
- Fire extinguisher to be placed at one labour camp at Harihara Package
- Waste material are to disposed only at the designated disposal sites approved by the appropriate authority.

Table 7: Compliance to EMP of the Package- Water Supply Distribution System in Davangere City, Package No. 01WS05

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Design & Pre Construction phase								
Technical Design of the project – Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created	<ul style="list-style-type: none"> Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability. Designs will be worked out and implemented in accordance with the provisions and will strictly conform to state rule 	Design report	-	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer PIU	Continuous	Complied as and when required
Disturbance/ damage to existing utilities on the sites (Telephone lines, electric poles and wires, water lines within proposed project sites)	<ul style="list-style-type: none"> List of affected utilities if any and operators Bid document to include requirement for a contingency plan for service interruptions In case of disruption of water supply, alternative supply , through tankers shall be provided 	<ul style="list-style-type: none"> List of affected utilities if any and operators Bid document to include requirement for a contingency plan for service interruptions 	-	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer & Environment Specialist/ PIU	Before start of physical work & Continuous	Complied in design and as & when required Utility services are being restored on the same day or least possible time.
Construction work camps, stockpile areas, storage areas, and disposal areas (disruption to traffic flow and sensitive areas and receptors)	<ul style="list-style-type: none"> Planning for setting up worker camps, stockpile area, storage and disposal areas Prioritize areas within or nearest possible vacant space in the sub project location Non-use of residential area Arrangement of toilet and drinking water facility No disposal of waste in water 	List of selected location for construction work camps, stockpile areas, storage areas, and disposal areas	Proposed camp site	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer & Environment Specialist / PIU	Before start of physical work & Continuous	Complied. List of selected Sites for construction work camps, stockpile areas, storage areas, and disposal areas.
Structural and seismic stability of Storage reservoir (OHT) is to be ensured for	<ul style="list-style-type: none"> The design shall incorporate seismicity of the place and all other safety factors. All care shall be taken to ensure a safe and structurally sound 	<ul style="list-style-type: none"> Emergency response plan 	-	PIU and PMDCSC	Observation and document checking	PIU and PMDCSC	Before start of physical work & Continuous	Complied in design

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
the safety of people working in and living around these structures.	construction.							
Consents, permits, Clearances, NOCs, etc. Failure to obtain necessary consents, permits, NOCs, etc can result to design revisions and/or stoppage of works	<ul style="list-style-type: none"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to start of civil works. Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	<ul style="list-style-type: none"> All respective consents/Clearances/NOCs 	-	Contractor	Observation and document checking	ULB/PIU and PMDCSC	Observation and document checking	Complied.
Construction								
Impacts due to excess excavated earth, excess construction materials, solid waste etc. Occupational hazards which can occur to workers and public during work.	<ul style="list-style-type: none"> Prepare and submit Construction Management Plan, every month, Which cover location map, use of PPE, materials management, waste management, personal safety arrangement etc. Avoid stockpiling of excess excavated soils Coordination for beneficial uses of excess excavated soils, demolition waste or immediately dispose to designated areas; Manage solid waste by reusing, recycling and disposal to designated areas Remove all wreckage, rubbish, or temporary structures which are no longer required 	Document related to construction management format	Working locations	Contractor	Observation and document checking	PMSCS's Environment Specialist and Construction supervisor	<p>Daily by construction supervisor- Resident Engineer Weekly / bi weekly by Construction Manager.</p> <p>Verification by Environment Specialist of PMSCS and Asst.Executive Engineer (Environment) KIUWMIP-KUIDFC On monthly basis</p>	Complied mostly Excavations have been started already. Excess soil after back filling will be reused to fill trenches if any or shifted from the sites.
Extraction of materials can	<ul style="list-style-type: none"> Contractor should obtain 	<ul style="list-style-type: none"> List of approved 	Quarries and	Contractor	<ul style="list-style-type: none"> Checking 	PMSCS's Environment	Do	Under Compliance. All materials

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution	<p>material from existing mines approved / licensed by Mines and Geology Department /Revenue Department.</p> <ul style="list-style-type: none"> • Verify suitability of all material sources and obtain approval of implementing agency • No new quarry sites shall be developed for the sub project purpose • Submit a monthly statement of construction material procured indicating material type, source and quantity. 	<p>quarry sites and sources of materials if necessary</p> <ul style="list-style-type: none"> • Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary • Construction Contractor documentation 	material source areas		<ul style="list-style-type: none"> • of records visual inspection of sites 	Specialist and Construction supervisor		procurement certified by implementation agency

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Dust and emissions from construction activity may degrade the air quality	<ul style="list-style-type: none"> Consult with PIU on the designated areas for stockpiling of clay, soils, gravel, and other construction materials; Damp down exposed soil and any stockpiled on site by spraying with water when necessary during dry weather; Bring materials (aggregates, sand, etc gravel) as and when required; Use tarpaulins to cover sand and other loose material when transported by vehicles; Clean wheels and undercarriage of vehicles prior to leaving construction site Ensure valid Pollution Under Control (PUC) Certificates for all vehicles and equipment used in the construction activity 	<ul style="list-style-type: none"> Location of stockpiles Complaints from sensitive receptors Monitoring data Heavy equipment and machinery with air pollution control Water sprinkling arrangement Cover materials 	All construction on site, stockpile areas	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Complied. Excavated earth to be used to refill the trench. Materials are brought to the site whenever necessary but materials need to be stored properly. Water sprinkling done as and when required. During construction air quality monitoring has been done during the report period. Complete result certificates available in PIU and PMCSC office as back up paper. Location map of sampling stations attached as Appendix 8</p> <p>PUC certificates obtained</p>
High noisy construction activities may have adverse impacts on sensitive receptors and structures	<ul style="list-style-type: none"> Plan activities in consultation with the PIU so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works located within the town;. 	<ul style="list-style-type: none"> Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data 	All construction on sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Prior information needs to be provided to locals. Instruction has been given to contractor for active awareness. No such noise producing machinery mobilized at site</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Provide prior information to the local public about the work schedule; Ensure that there are no old and sensitive buildings that may come under risk due to the use of pneumatic drills; if there is risk, Cut the rocks manually by chiselling; Maintain maximum sound levels not exceeding 80 decibels (db) when measured at a distance of 10 m or more from the vehicle/s 							<p>During construction Noise quality monitoring is done during the report period</p> <p>Complete result certificates available in PIU and PMCSC office as back up paper.</p> <p>Location map of sampling stations attached as Appendix 8</p>
Impacts on surface drainage and water quality due to contaminated runoff from construction areas in monsoon	<ul style="list-style-type: none"> Avoid stock piling of earth fill specially during the monsoon season unless covered by tarpaulins or plastic sheets Stock piles shall be provided with temporary bunds Prioritize re-use of excess spoils and materials in the construction works. Place storage area as for fuels and lubricants away from any drainage leading to water bodies Dispose any wastes generated by construction activities in designated sites 	<ul style="list-style-type: none"> Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages (in slope) leading to water bodies Utilization of spoils 	All construction sites	Contractor	Site observation	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Complied.</p> <p>Stockpiling avoided as far as possible</p> <p>Fuel and lubricants will be stored separately.</p> <p>Wastes to be disposed as per advice of engineer.</p> <p>No water bodies present nearby the construction sites.</p>
Impacts on landscape and aesthetics due to construction activity	<ul style="list-style-type: none"> Prepare and implement Spoil Management Plan—it should present how the surplus waste generated will temporarily be stocked at the site, transported and disposed properly. The Spoil Management Plan will be part of the Construction 	<ul style="list-style-type: none"> Waste Management List Complaints from sensitive receptors PMU/PIU/PMD CSC to report in writing that the 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Excess earth needs to be removed at earliest. Spoil management plan will be applied as per EMP (Sample spoil management plan Attached as Appendix 9)</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	Management Plan. <ul style="list-style-type: none"> Avoid stock piling of excess excavated soils as far as possible Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas 	necessary environmental restoration work has been done						
Damage to protected structures due to construction along the areas near to protected monuments	<ul style="list-style-type: none"> All necessary and adequate care should be taken to minimize the impact on protected properties. If articles such as fabrics, coins, artefacts, structures or other geologically or archeologically important materials are discovered, the excavation should be stopped and the Archaeological Department should be intimated at the earliest and all the articles received during the pipe laying should be handed over to ASI PMDCSC should include the above instruction in the contract document. 	Chance find protocol	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	Not yet arise. Action will be taken as per requirement Instruction has been given to all workers on chance find
Traffic problems and conflicts near project locations	<ul style="list-style-type: none"> Plan pipeline work in consultation with the traffic police Plan work such that trench excavation, pipe laying, and refilling including compacting, at a stretch is completed in a minimum possible time; Provide for immediate consolidation of back filling material to desired compaction- this will allow immediate road restoration 	<ul style="list-style-type: none"> Traffic Management Strategy Complaints from sensitive receptors Number of signage's placed at subproject locations. 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	Under compliance. Construction works are to be completed in least possible time. Sign board and Traffic diversion boards arranged. Caution tapes placed properly except at a very few locations, which

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>and therefore will minimised disturbance to the traffic movement;</p> <ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted on to edge of the road; allow traffic to move on one line; Provide pedestrian access in all the locations until normalcy is restored. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions; Notify affected sensitive receptors 2 days in advance by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints 							need to be placed properly at excavated area. Traffic Management plan developed as Appendix 10
Impact on sensitive receptors- Schools, hospitals and religious places	<ul style="list-style-type: none"> No material should be stocked in this area; material shall be brought to the site as and when required Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles No work should be conducted near the religious places during religious congregations Material transport to the site should be arranged considering school timings; material should be in place before school starts; 	<ul style="list-style-type: none"> Materials storage strategy Complaints from sensitive receptors Construction strategy near sensitive areas 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	Complying as per the site conditions. Schools, Hospitals and religious places will be notified before the work.

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Notify concerned schools, hospitals etc 2 weeks prior to the work; conduct a 30 minutes awareness program at on nature of work, likely disturbances and risks and construction work, mitigation measures in place, entry restrictions and dos and don'ts Implement all measures suggested elsewhere in this report – dust and noise control, public safety, traffic management, strictly at the sites. 							
Socio-Economic: Livelihood Impediment of access to houses and business	<ul style="list-style-type: none"> Leave space for access between mounds of excavated soil Provide wooden planks / foot bridges for pedestrians and metal sheets for vehicles to allow access across trenches to premises wherever required Consult affected business people; inform them in advance when work will start Address livelihood issues; implement the Resettlement Plan(RP) to address these issues Provide sign/ caution/ warning boards at work site indicating work schedule and traffic information; prevent public entry into work sites through barricading and security; and Provide sign boards for pedestrians to inform nature 	<ul style="list-style-type: none"> Safety arrangement Complaint from sensitive receptors Sign board/ caution board availability with required information 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Instruction has been given for awareness to locals regarding work schedule in advance</p> <p>Sign and caution boards need to be arranged at all working places.</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	and duration of construction works and contact numbers for concerns / complaints.							
Socio-Economic: Employment generation	Employ at least 50% of the labour force, or to the maximum extent, local persons if man power is available. Procure construction materials from local market.	Employment record	All construction sites	Contractor	Checking of records	PMCSC's Environment Specialist and Construction supervisor	Do	Complied. Local people are employed wherever possible.
Workers occupational health & safety	<p>(i) Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as:</p> <p>(a) excluding public from the site;</p> <p>(b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gum boot, gloves, nose mask and earplugs;</p> <p>(c) H&S Training for all site personnel;</p> <p>(d) documented procedures to be followed for all site activities; and</p> <p>(e) documentation of work-related accidents;</p> <p>(ii) Designate a safeguard focal person and undertake safeguards orientation by PMU/PIU;</p> <p>(iii) Ensure H&S plan is easily understandable to workers and labourers. Keep in mind that this plan will be used on-site and workers/labourers may not always understand highly technical terms;</p> <p>(iv) Strict compliance of H&S plan and requirements of wearing personal protective equipment (PPE) during work hours;</p> <p>(v) Provide specific guidance for suitable PPE for every on-site</p>	<ul style="list-style-type: none"> Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Number of accidents Supplies of potable drinking water; Record of H&S orientation trainings Personal protective equipments Sign boards for hazardous areas such as energized electrical devices and lines, service rooms 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Under compliance. PPEs are given to the workers for complete use. First aid box available at working locations. Induction and Tool box training arranged for workers (Appendix 11, sample copy)</p> <p>Insurance arranged for the labourer. Attached as Appendix 4</p> <p>Tie up with local hospital done and medical check-up of workers – done Appendix 12 shows sample copy.</p> <p>Location of Labour Camp is shown in Appendix 18</p> <p>Layout Plan of Labour Camp is shown in Appendix</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>work assignment</p> <p>(vi) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site;</p> <p>(vii) Provide medical insurance coverage for workers;</p> <p>(viii) Secure all installations from unauthorized intrusion and accident risks;</p> <p>(ix) Provide supplies of potable drinking water at working sites;</p> <p>(x) Provide clean eating areas where workers are not exposed to hazardous or noxious substances; and</p> <p>(xi) Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;</p> <p>(xii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;</p> <p>(xiii) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;</p> <p>(xiv) Ensure moving equipment is out fitted with audible back- up alarms;</p> <p>(xv) Mark and provide sign boards for hazardous areas such as energized electrical devices and</p>							19

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; and (xvi) Disallow worker exposure to noise level greater than 85 dBA for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively.							
Community Health & safety	<ul style="list-style-type: none"> • Provide wooden bracing for all deep excavations (>2m); identify buildings at risk prior to start of excavation work and take necessary precautions for safe work • Plan material and waste routes to avoid times of peak-pedestrian activities • Liaise with Davangere CMC in identifying risk areas on route cards/maps; identify buildings at risk prior to start of excavation work and take necessary precautions for safe conduct of work • Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure • Provide road signs and flag persons to warn of dangerous 	<ul style="list-style-type: none"> • Traffic Management Strategy • Complaints from sensitive receptors 	All construction sites	Contractor	Visual inspection	PMCSC's Environment Specialist and Construction supervisor	Do	Complied with the provision of Caution tapes except at a very few locations. So improvement is required. Road signages are placed. Transportation of materials done as per convenient time without disturbing locals

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>conditions, for all the sites along the roads</p> <ul style="list-style-type: none"> Overall, the contractor should comply with IFC EHS Guidelines on Community Health and Safety 							
Temporary worker camps	<ul style="list-style-type: none"> Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement Train employees in the storage and handling of materials Remove all wreckage, rubbish, or temporary structures 	<ul style="list-style-type: none"> Complaints from sensitive Receptors Water and sanitation facilities for employees Housekeeping – regular disposal of solid waste 	All construction sites	Contractor	Site observation	PMCSC's Environment Specialist and Construction supervisor	Do	Mostly Complied. The Labour camp has been provided at Belavanur Road, Davanagere. The location plan of Labour camp is given in Appendix-18 and Layout Plan of Labour Camp is given in Appendix-19

Table 8: Compliance to EMP of the Package- Water Supply Distribution System in Harihara City, Package No. 01WS04

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Design & Pre Construction phase								
Technical Design of the project – Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created	<ul style="list-style-type: none"> Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability. Designs will be worked out and implemented in accordance with the provisions and will strictly conform to state rule 	Design report	-	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer PIU	Continuous	Complied as and when required
Disturbance/ damage to existing utilities on the sites	<ul style="list-style-type: none"> List of affected utilities if any and operators Bid document to include 	<ul style="list-style-type: none"> List of affected utilities if any and operators 	-	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer &	Before start of physical work & Continuous	Complied in design and as & when required

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
(Telephone lines, electric poles and wires, water lines within proposed project sites)	<ul style="list-style-type: none"> requirement for a contingency plan for service interruptions In case of disruption of water supply, alternative supply through tankers shall be provided 	<ul style="list-style-type: none"> Bid document to include requirement for a contingency plan for service interruptions 				Environment Specialist/ PIU		Utility services are being restored on the same day or least possible time.
Construction work camps, stockpile areas, storage areas, and disposal areas (disruption to traffic flow and sensitive areas and receptors)	<ul style="list-style-type: none"> Planning for setting up worker camps, stockpile area, storage and disposal areas Prioritize areas within or nearest possible vacant space in the sub project location Non-use of residential area Arrangement of toilet and drinking water facility No disposal of waste in water 	List of selected location for construction work camps, stockpile areas, storage areas, and disposal areas	Proposed camp site	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer & Environment Specialist / PIU	Before start of physical work & Continuous	Complied. List of selected Sites for construction work camps, stockpile areas, storage areas, and disposal areas.
Structural and seismic stability of Storage reservoir (OHT) is to be ensured for the safety of people working in and living around these structures.	<ul style="list-style-type: none"> The design shall incorporate seismicity of the place and all other safety factors. All care shall be taken to ensure a safe and structurally sound construction. 	<ul style="list-style-type: none"> Emergency response plan 	-	PIU and PMDCSC	Observation and document checking	PIU and PMDCSC	Before start of physical work & Continuous	Complied in design
Consents, permits, Clearances, NOCs, etc. Failure to obtain necessary consents, permits, NOCs, etc can result to design revisions and/or stoppage of works	<ul style="list-style-type: none"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to start of civil works. Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	<ul style="list-style-type: none"> All respective consents/Clearances/NOCs 	-	Contractor	Observation and document checking	ULB/PIU and PMDCSC	Observation and document checking	Complied.
Construction								
Impacts due to excess excavated	<ul style="list-style-type: none"> Prepare and submit Construction Management 	Document related to construction	Working locations	Contractor	Observation and document	PMDCSC's Environment	Daily by construction	Complied mostly Excavation started.

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
earth, excess construction materials, solid waste etc. Occupational hazards which can occur to workers and public during work.	<p>Plan, every month, Which cover location map, use of PPE, materials management, waste management, personal safety arrangement etc.</p> <ul style="list-style-type: none"> • Avoid stockpiling of excess excavated soils • Coordination for beneficial uses of excess excavated soils, demolition waste or immediately dispose to designated areas; • Manage solid waste by reusing, recycling and disposal to designated areas • Remove all wreckage, rubbish, or temporary structures which are no longer required 	management format			checking	Specialist and Construction supervisor	<p>supervisor- Resident Engineer Weekly / bi weekly by Construction Manager.</p> <p>Verification by Environment Specialist of PMCSC and Asst Executive Engineer (Environment) KIUWMIP-KUIDFC On monthly basis</p>	Excess soil after back filling will be reused to fill trenches if any or shifted from the sites.
Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution	<ul style="list-style-type: none"> • Contractor should obtain material from existing mines approved / licensed by Mines and Geology Department /Revenue Department. • Verify suitability of all material sources and obtain approval of implementing agency • No new quarry sites shall be developed for the sub project purpose • Submit a monthly statement of construction material procured indicating material type, source and quantity. 	<ul style="list-style-type: none"> • List of approved quarry sites and sources of materials if necessary • Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary • Construction Contractor documentation 	Quarries and material source areas	Contractor	<ul style="list-style-type: none"> • Checking of records • visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	Under Compliance. All materials procurement certified by implementation agency

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Dust and emissions from construction activity may degrade the air quality	<ul style="list-style-type: none"> Consult with PIU on the designated areas for stockpiling of clay, soils, gravel, and other construction materials; Damp down exposed soil and any stockpiled on site by spraying with water when necessary during dry weather; Bring materials (aggregates, sand, etc gravel) as and when required; Use tarpaulins to cover sand and other loose material when transported by vehicles; Clean wheels and undercarriage of vehicles prior to leaving construction site Ensure valid Pollution Under Control (PUC) Certificates for all vehicles and equipment used in the construction activity 	<ul style="list-style-type: none"> Location of stockpiles Complaints from sensitive receptors Monitoring data Heavy equipment and machinery with air pollution control Water sprinkling arrangement Cover materials 	All construction on site, stockpile areas	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Complied. Excavated earth to be used to refill the trench. Materials are brought to the site whenever necessary but materials need to be stored properly. Water sprinkling done as and when required. During construction air quality monitoring done during the report period. Complete result certificates available in PIU and PMCSC office as back up paper. Location map of sampling stations attached as Appendix 8</p> <p>PUC certificates obtained</p>
High noisy construction activities may have adverse impacts on sensitive receptors and structures	<ul style="list-style-type: none"> Plan activities in consultation with the PIU so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works located within the town;. 	<ul style="list-style-type: none"> Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data 	All construction on sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Prior information needs to be provided to locals. Instruction has been given to contractor for active awareness. No such noise producing machinery mobilized at site</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Provide prior information to the local public about the work schedule; Ensure that there are no old and sensitive buildings that may come under risk due to the use of pneumatic drills; if there is risk, Cut the rocks manually by chiselling; Maintain maximum sound levels not exceeding 80 decibels (db) when measured at a distance of 10 m or more from the vehicle/s 							<p>During construction Noise quality monitoring is done during the report period</p> <p>Complete result certificates available in PIU and PMDCSC office as back up paper.</p> <p>Location map of sampling stations attached as Appendix 8</p>
Impacts on surface drainage and water quality due to contaminated runoff from construction areas in monsoon	<ul style="list-style-type: none"> Avoid stock piling of earth fill specially during the monsoon season unless covered by tarpaulins or plastic sheets Stock piles shall be provided with temporary bunds Prioritize re-use of excess spoils and materials in the construction works. Place storage area as for fuels and lubricants away from any drainage leading to water bodies Dispose any wastes generated by construction activities in designated sites 	<ul style="list-style-type: none"> Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages (in slope) leading to water bodies Utilization of spoils 	All construction sites	Contractor	Site observation	PMDCSC's Environment Specialist and Construction supervisor	Do	<p>Complied.</p> <p>Stockpiling avoided as far as possible</p> <p>Fuel and lubricants will be stored separately</p> <p>Wastes to be disposed as per advice of engineer. No water bodies nearby the present construction sites.</p>
Impacts on landscape and aesthetics due to construction activity	<ul style="list-style-type: none"> Prepare and implement Spoil Management Plan—it should present how the surplus waste generated will be temporarily stocked at the site, transported and disposed properly. The Spoil Management Plan will be part of the Construction 	<ul style="list-style-type: none"> Waste Management List Complaints from sensitive receptors PMU/PIU/PMD CSC to report in writing that the 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	<p>Excess earth needs to be removed at earliest. Spoil management plan will be applied as per EMP (Sample spoil management plan Attached as Appendix 7)</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	Management Plan. <ul style="list-style-type: none"> Avoid stock piling of excess excavated soils as far as possible Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas 	necessary environmental restoration work has been done						
Damage to protected structures due to construction along the areas near to protected monuments	<ul style="list-style-type: none"> All necessary and adequate care should be taken to minimize the impact on protected properties. If articles such as fabrics, coins, artefacts, structures or other geologically or archeologically important materials are discovered, the excavation should be stopped and the Archaeological Department should be intimated at the earliest and all the articles received during the pipe laying should be handed over to ASI PMDSC should include the above instruction in the contract document. 	Chance find protocol	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDSC's Environment Specialist and Construction supervisor	Do	Not yet arise. Action will be taken as per requirement Instruction has been given to all workers on chance find
Traffic problems and conflicts near project locations	<ul style="list-style-type: none"> Plan pipeline work in consultation with the traffic police Plan work such that trench excavation, pipe laying, and refilling including compacting, at a stretch is completed in a minimum possible time; Provide for immediate consolidation of back filling material to desired compaction- this will allow immediate road restoration 	<ul style="list-style-type: none"> Traffic Management Strategy Complaints from sensitive receptors Number of signage's placed at subproject locations. 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDSC's Environment Specialist and Construction supervisor	Do	Under compliance. Construction works are to be completed in least possible time. Sign board and Traffic diversion boards arranged. Caution tapes placed properly except at a few locations, which

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>and therefore will minimised disturbance to the traffic movement;</p> <ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted on to edge of the road; allow traffic to move on one line; Provide pedestrian access in all the locations until normalcy is restored. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions; Notify affected sensitive receptors 2 days in advance by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints 							need to be placed properly at excavated area. Traffic Management plan developed
Impact on sensitive receptors- Schools, hospitals and religious places	<ul style="list-style-type: none"> No material should be stocked in this area; material shall be brought to the site as and when required Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles No work should be conducted near the religious places during religious congregations Material transport to the site should be arranged considering school timings; material should be in place before school starts; 	<ul style="list-style-type: none"> Materials storage strategy Complaints from sensitive receptors Construction strategy near sensitive areas 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDSC's Environment Specialist and Construction supervisor	Do	Complying as per the site conditions. Schools, Hospitals and religious places will be notified before the work.

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Notify concerned schools, hospitals etc 2 weeks prior to the work; conduct a 30 minutes awareness program at on nature of work, likely disturbances and risks and construction work, mitigation measures in place, entry restrictions and dos and don'ts Implement all measures suggested elsewhere in this report – dust and noise control, public safety, traffic management, strictly at the sites. 							
Socio-Economic: Livelihood Impediment of access to houses and business	<ul style="list-style-type: none"> Leave space for access between mounds of excavated soil Provide wooden planks / foot bridges for pedestrians and metal sheets for vehicles to allow access across trenches to premises wherever required Consult affected business people; inform them in advance when work will start Address livelihood issues; implement the Resettlement Plan(RP) to address these issues Provide sign/ caution/ warning boards at work site indicating work schedule and traffic information; prevent public entry into work sites through barricading and security; and Provide sign boards for pedestrians to inform nature 	<ul style="list-style-type: none"> Safety arrangement Complaint from sensitive receptors Sign board/ caution board availability with required information 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDSC's Environment Specialist and Construction supervisor	Do	<p>Instruction has been given for awareness to locals regarding work schedule in advance</p> <p>Sign and caution boards need to be arranged at all working places.</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	and duration of construction works and contact numbers for concerns / complaints.							
Socio-Economic: Employment generation	Employ at least 50% of the labour force, or to the maximum extent, local persons if man power is available. Procure construction materials from local market.	Employment record	All construction sites	Contractor	Checking of records	PMDCSC's Environment Specialist and Construction supervisor	Do	Complied. Mostly local people are employed where ever possible.
Workers occupational health & safety	<p>(i) Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as:</p> <p>(a) excluding public from the site;</p> <p>(b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gum boot, gloves, nose mask and earplugs;</p> <p>(c) H&S Training for all site personnel;</p> <p>(d) documented procedures to be followed for all site activities; and</p> <p>(e) documentation of work-related accidents;</p> <p>(ii) Designate a safeguard focal person and undertake safeguards orientation by PMU/PIU;</p> <p>(iii) Ensure H&S plan is easily understandable to workers and labourers. Keep in mind that this plan will be used on-site and workers/labourers may not always understand highly technical terms;</p> <p>(iv) Strict compliance of H&S plan and requirements of wearing personal protective equipment (PPE) during work hours;</p> <p>(v) Provide specific guidance for suitable PPE for every on-site</p>	<ul style="list-style-type: none"> Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Number of accidents Supplies of potable drinking water; Record of H&S orientation trainings Personal protective equipments Sign boards for hazardous areas such as energized electrical devices and lines, service rooms 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	<p>Under compliance PPEs are given to the workers for complete use. First aid box available at working locations Induction and Tool box training arranged for workers (Appendix 11, sample copy)</p> <p>Insurance arranged for the labourer. Attached as Appendix 4</p> <p>Tie up with local hospital done and medical check-up of workers – done Appendix 12 shows sample copy.</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>work assignment</p> <p>(vi) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site;</p> <p>(vii) Provide medical insurance coverage for workers;</p> <p>(viii) Secure all installations from unauthorized intrusion and accident risks;</p> <p>(ix) Provide supplies of potable drinking water at working sites;</p> <p>(x) Provide clean eating areas where workers are not exposed to hazardous or noxious substances; and</p> <p>(xi) Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;</p> <p>(xii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;</p> <p>(xiii) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;</p> <p>(xiv) Ensure moving equipment is out fitted with audible back- up alarms;</p> <p>(xv) Mark and provide sign boards for hazardous areas such as energized electrical devices and</p>							

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; and (xvi) Disallow worker exposure to noise level greater than 85 dBA for a duration of more than 8hours per day without hearing protection. The use of hearing protection shall be enforced actively.							
Community Health & safety	<ul style="list-style-type: none"> • Provide wooden bracing for all deep excavations (>2m); identify buildings at risk prior to start of excavation work and take necessary precautions for safe work • Plan material and waste routes to avoid times of peak-pedestrian activities • Liaise with Harihara CMC in identifying risk areas on route cards/maps; identify buildings at risk prior to start of excavation work and take necessary precautions for safe conduct of work • Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure • Provide road signs and flag persons to warn of dangerous 	<ul style="list-style-type: none"> • Traffic Management Strategy • Complaints from sensitive receptors 	All construction sites	Contractor	Visual inspection	PMCSC's Environment Specialist and Construction supervisor	Do	Complied with the provision of Caution tapes except at a few locations. So improvement is required. Road signage to be placed. Transportation of materials done as per convenient time without disturbing locals

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	conditions, for all the sites along the roads • Overall, the contractor should comply with IFC EHS Guidelines on Community Health and Safety							
Temporary worker camps	• Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement • Train employees in the storage and handling of materials • Remove all wreckage, rubbish, or temporary structures	• Complaints from sensitive Receptors • Water and sanitation facilities for employees • Housekeeping – regular disposal of solid waste	All construction sites	Contractor	Site observation	PMCSC's Environment Specialist and Construction supervisor	Do	Partially Complied. Labour camp is not as per as per the standard guidelines.

Table 9: Compliance to EMP of the Package- Water Supply Distribution System in Byadgi Town, Package No. 01WS03

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Design & Pre Construction phase								
Technical Design of the project – Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created	• Design will include provisions for ensuring effective maintenance and protection of the assets created so as to ensure the long term sustainability. • Designs will be worked out and implemented in accordance with the provisions and will strictly conform to state rule	Design report	-	PIU / Design Consultant	Observation and document checking	PMDSC's Resident Engineer PIU	Continuous	Complied as and when required
Disturbance/	• List of affected utilities if any	• List of affected	-	PIU /	Observation	PMDSC's	Before start	Complied in design

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
damage to existing utilities on the sites (Telephone lines, electric poles and wires, water lines within proposed project sites)	<ul style="list-style-type: none"> and operators Bid document to include requirement for a contingency plan for service interruptions In case of disruption of water supply, alternative supply ,through tankers shall be provided 	<ul style="list-style-type: none"> utilities if any and operators Bid document to include requirement for a contingency plan for service interruptions 		Design Consultant	and document checking	Resident Engineer & Environment Specialist/ PIU	of physical work & Continuous	and as & when required Utility services are being restored on the same day or least possible time.
Construction work camps, stockpile areas, storage areas, and disposal areas (disruption to traffic flow and sensitive areas and receptors)	<ul style="list-style-type: none"> Planning for setting up worker camps, stockpile area, storage and disposal areas Prioritize areas within or nearest possible vacant space in the sub project location Non-use of residential area Arrangement of toilet and drinking water facility No disposal of waste in water 	List of selected location for construction work camps, stockpile areas, storage areas, and disposal areas	Proposed camp site	PIU / Design Consultant	Observation and document checking	PMDCSC's Resident Engineer & Environment Specialist / PIU	Before start of physical work & Continuous	Complied. List of selected Sites for construction work camps, stockpile areas, storage areas, and disposal areas.
Structural and seismic stability of Storage reservoir (OHT) is to be ensured for the safety of people working in and living around these structures.	<ul style="list-style-type: none"> The design shall incorporate seismicity of the place and all other safety factors. All care shall be taken to ensure a safe and structurally sound construction. 	<ul style="list-style-type: none"> Emergency response plan 	-	PIU and PMDCSC	Observation and document checking	PIU and PMDCSC	Before start of physical work & Continuous	Complied in design
Consents, permits, Clearances, NOCs, etc. Failure to obtain necessary consents, permits, NOCs, etc can result to design revisions and/or stoppage of works	<ul style="list-style-type: none"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to start of civil works. Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	<ul style="list-style-type: none"> All respective consents/Clearances/NOCs 	-	Contractor	Observation and document checking	ULB/PIU and PMDCSC	Observation and document checking	Complied.
Construction								

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Impacts due to excess excavated earth, excess construction materials, solid waste etc. Occupational hazards which can occur to workers and public during work.	<ul style="list-style-type: none"> Prepare and submit Construction Management Plan, every month, Which cover location map, use of PPE, materials management, waste management, personal safety arrangement etc. Avoid stockpiling of excess excavated soils Coordination for beneficial uses of excess excavated soils, demolition waste or immediately dispose to designated areas; Manage solid waste by reusing, recycling and disposal to designated areas Remove all wreckage, rubbish, or temporary structures which are no longer required 	Document related to construction management format	Working locations	Contractor	Observation and document checking	PMCSC's Environment Specialist and Construction supervisor	<p>Daily by construction supervisor- Resident Engineer Weekly / bi weekly by Construction Manager.</p> <p>Verification by Environment Specialist of PMCSC and Asst .Executive Engineer (Environment) KIUWMIP-KUIDFC On monthly basis</p>	Complied mostly Excavation started. Excess soil after back filling will be reused to fill trenches if any or shifted from the sites.
Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution	<ul style="list-style-type: none"> Contractor should obtain material from existing mines approved / licensed by Mines and Geology Department /Revenue Department. Verify suitability of all material sources and obtain approval of implementing agency No new quarry sites shall be developed for the sub project purpose Submit a monthly statement of construction material procured indicating material type, source and quantity. 	<ul style="list-style-type: none"> List of approved quarry sites and sources of materials Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary Construction Contractor documentation 	Quarries and material source areas	Contractor	<ul style="list-style-type: none"> Checking of records visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	Under Compliance. All materials procurement certified by implementation agency

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
Dust and emissions from construction activity may degrade the air quality	<ul style="list-style-type: none"> Consult with PIU on the designated areas for stockpiling of clay, soils, gravel, and other construction materials; Damp down exposed soil and any stockpiled on site by spraying with water when necessary during dry weather; Bring materials (aggregates, sand, etc gravel) as and when required; Use tarpaulins to cover sand and other loose material when transported by vehicles; Clean wheels and undercarriage of vehicles prior to leaving construction site Ensure valid Pollution Under Control (PUC) Certificates for all vehicles and equipment used in the construction activity 	<ul style="list-style-type: none"> Location of stockpiles Complaints from sensitive receptors Monitoring data Heavy equipment and machinery with air pollution control Water sprinkling arrangement Cover materials 	All construction on site, stockpile areas	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Complied. Excavated earth to be used to refill the trench. Materials are brought to the site whenever necessary but materials need to be stored properly. Water sprinkling done as and when required. During construction air quality monitoring done during the report period. Complete result certificates available in PIU and PMCSC office as back up paper. Location map of sampling stations attached as Appendix 8</p> <p>PUC certificates obtained</p>
High noisy construction activities may have adverse impacts on sensitive receptors and structures	<ul style="list-style-type: none"> Plan activities in consultation with the PIU so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works located within the town;. 	<ul style="list-style-type: none"> Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data 	All construction on sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Prior information needs to be provided to locals. Instruction has been given to contractor for active awareness. No such noise producing machinery mobilized at site</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Provide prior information to the local public about the work schedule; Ensure that there are no old and sensitive buildings that may come under risk due to the use of pneumatic drills; if there is risk, Cut the rocks manually by chiselling; Maintain maximum sound levels not exceeding 80 decibels (db) when measured at a distance of 10 m or more from the vehicle/s 							<p>During construction Noise quality monitoring is done during the report period</p> <p>Complete result certificates available in PIU and PMCSC office as back up paper.</p> <p>Location map of sampling stations attached as Appendix 8</p>
Impacts on surface drainage and water quality due to contaminated runoff from construction areas in monsoon	<ul style="list-style-type: none"> Avoid stock piling of earth fill specially during the monsoon season unless covered by tarpaulins or plastic sheets Stock piles shall be provided with temporary bunds Prioritize re-use of excess spoils and materials in the construction works. Place storage area as for fuels and lubricants away from any drainage leading to water bodies Dispose any wastes generated by construction activities in designated sites 	<ul style="list-style-type: none"> Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages (in slope) leading to water bodies Utilization of spoils 	All construction sites	Contractor	Site observation	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Complied.</p> <p>Stockpiling avoided as far as possible</p> <p>Fuel and lubricants will be stored separately</p> <p>Wastes to be disposed as per advice of engineer. No water bodies nearby the present construction sites.</p>
Impacts on landscape and aesthetics due to construction activity	<ul style="list-style-type: none"> Prepare and implement Spoil Management Plan—it should present how the surplus waste generated will temporarily be stocked at the site, transported and disposed properly. The Spoil Management Plan will be part of the Construction 	<ul style="list-style-type: none"> Waste Management List Complaints from sensitive receptors PMU/PIU/PMD CSC to report in writing that the 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Excess earth needs to be removed at earliest. Spoil management plan will be applied as per EMP (Sample spoil management plan Attached as Appendix 9)</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	Management Plan. <ul style="list-style-type: none"> Avoid stock piling of excess excavated soils as far as possible Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas 	necessary environmental restoration work has been done						
Damage to protected structures due to construction along the areas near to protected monuments	<ul style="list-style-type: none"> All necessary and adequate care should be taken to minimize the impact on protected properties. If articles such as fabrics, coins, artefacts, structures or other geologically or archeologically important materials are discovered, the excavation should be stopped and the Archaeological Department should be intimated at the earliest and all the articles received during the pipe laying should be handed over to ASI PMDCSC should include the above instruction in the contract document. 	Chance find protocol	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	Not yet arise. Action will be taken as per requirement Instruction has been given to all workers on chance find
Traffic problems and conflicts near project locations	<ul style="list-style-type: none"> Plan pipeline work in consultation with the traffic police Plan work such that trench excavation, pipe laying, and refilling including compacting, at a stretch is completed in a minimum possible time; Provide for immediate consolidation of back filling material to desired compaction- this will allow immediate road restoration 	<ul style="list-style-type: none"> Traffic Management Strategy Complaints from sensitive receptors Number of signage's placed at subproject locations. 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMDCSC's Environment Specialist and Construction supervisor	Do	Under compliance. Construction works are to be completed in least possible time. Sign board and Traffic diversion boards arranged. Caution tapes placed properly except at a few locations, which

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>and therefore will minimised disturbance to the traffic movement;</p> <ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted on to edge of the road; allow traffic to move on one line; Provide pedestrian access in all the locations until normalcy is restored. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions; Notify affected sensitive receptors 2 days in advance by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints 							need to be placed properly at excavated area. Traffic Management plan developed
Impact on sensitive receptors- Schools, hospitals and religious places	<ul style="list-style-type: none"> No material should be stocked in this area; material shall be brought to the site as and when required Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles No work should be conducted near the religious places during religious congregations Material transport to the site should be arranged considering school timings; material should be in place before school starts; 	<ul style="list-style-type: none"> Materials storage strategy Complaints from sensitive receptors Construction strategy near sensitive areas 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	Complying as per the site conditions. Schools, Hospitals and religious places will be notified before the work.

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<ul style="list-style-type: none"> Notify concerned schools, hospitals etc 2 weeks prior to the work; conduct a 30 minutes awareness program at on nature of work, likely disturbances and risks and construction work, mitigation measures in place, entry restrictions and dos and don'ts Implement all measures suggested elsewhere in this report – dust and noise control, public safety, traffic management, strictly at the sites. 							
Socio-Economic: Livelihood Impediment of access to houses and business	<ul style="list-style-type: none"> Leave space for access between mounds of excavated soil Provide wooden planks / foot bridges for pedestrians and metal sheets for vehicles to allow access across trenches to premises wherever required Consult affected business people; inform them in advance when work will start Address livelihood issues; implement the Resettlement Plan(RP) to address these issues Provide sign/ caution/ warning boards at work site indicating work schedule and traffic information; prevent public entry into work sites through barricading and security; and Provide sign boards for pedestrians to inform nature 	<ul style="list-style-type: none"> Safety arrangement Complaint from sensitive receptors Sign board/ caution board availability with required information 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Instruction has been given for awareness to locals regarding work schedule in advance</p> <p>Sign and caution boards need to be arranged at all working places.</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	and duration of construction works and contact numbers for concerns / complaints.							
Socio-Economic: Employment generation	Employ at least 50% of the labour force, or to the maximum extent, local persons if man power is available. Procure construction materials from local market.	Employment record	All construction sites	Contractor	Checking of records	PMCSC's Environment Specialist and Construction supervisor	Do	Complied. Mostly local people are employed where ever possible.
Workers occupational health & safety	<p>(i) Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as:</p> <p>(a) excluding public from the site;</p> <p>(b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gum boot, gloves, nose mask and earplugs;</p> <p>(c) H&S Training for all site personnel;</p> <p>(d) documented procedures to be followed for all site activities; and</p> <p>(e) documentation of work-related accidents;</p> <p>(ii) Designate a safeguard focal person and undertake safeguards orientation by PMU/PIU;</p> <p>(iii) Ensure H&S plan is easily understandable to workers and labourers. Keep in mind that this plan will be used on-site and workers/labourers may not always understand highly technical terms;</p> <p>(iv) Strict compliance of H&S plan and requirements of wearing personal protective equipment (PPE) during work hours;</p> <p>(v) Provide specific guidance for suitable PPE for every on-site</p>	<ul style="list-style-type: none"> Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Number of accidents Supplies of potable drinking water; Record of H&S orientation trainings Personal protective equipments Sign boards for hazardous areas such as energized electrical devices and lines, service rooms 	All construction sites	Contractor	<ul style="list-style-type: none"> Checking of records Visual inspection of sites 	PMCSC's Environment Specialist and Construction supervisor	Do	<p>Under compliance PPEs are given to the workers for complete use. First aid box available at working locations Induction and Tool box training arranged for workers (Appendix 11, sample copy)</p> <p>Insurance arranged for the labourer. Attached as Appendix 4</p> <p>Tie up with local hospital done and medical check up of workers – done Appendix 12 shows sample copy.</p>

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>work assignment</p> <p>(vi) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site;</p> <p>(vii) Provide medical insurance coverage for workers;</p> <p>(viii) Secure all installations from unauthorized intrusion and accident risks;</p> <p>(ix) Provide supplies of potable drinking water at working sites;</p> <p>(x) Provide clean eating areas where workers are not exposed to hazardous or noxious substances; and</p> <p>(xi) Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;</p> <p>(xii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;</p> <p>(xiii) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;</p> <p>(xiv) Ensure moving equipment is out fitted with audible back- up alarms;</p> <p>(xv) Mark and provide sign boards for hazardous areas such as energized electrical devices and</p>							

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; and (xvi) Disallow worker exposure to noise level greater than 85 dBA for a duration of more than 8hours per day without hearing protection. The use of hearing protection shall be enforced actively.							
Community Health & safety	<ul style="list-style-type: none"> • Provide wooden bracing for all deep excavations (>2m); identify buildings at risk prior to start of excavation work and take necessary precautions for safe work • Plan material and waste routes to avoid times of peak-pedestrian activities • Liaise with Byadgi CMC in identifying risk areas on route cards/maps; identify buildings at risk prior to start of excavation work and take necessary precautions for safe conduct of work • Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure • Provide road signs and flag persons to warn of dangerous 	<ul style="list-style-type: none"> • Traffic Management Strategy • Complaints from sensitive receptors 	All construction sites	Contractor	Visual inspection	PMCSC's Environment Specialist and Construction supervisor	Do	Complied with the provision of Caution tapes except at a few locations. So improvement is required. Road signage to be placed. Transportation of materials done as per convenient time without disturbing locals

Impacts	Mitigation Measures	Parameters Monitored	Location	Responsible for mitigation	Method of Monitoring	Responsible for Monitoring	Date of Monitoring Conducted	Compliance status
	<p>conditions, for all the sites along the roads</p> <ul style="list-style-type: none"> Overall, the contractor should comply with IFC EHS Guidelines on Community Health and Safety 							
Temporary worker camps	<ul style="list-style-type: none"> Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement Train employees in the storage and handling of materials Remove all wreckage, rubbish, or temporary structures 	<ul style="list-style-type: none"> Complaints from sensitive Receptors Water and sanitation facilities for employees Housekeeping – regular disposal of solid waste 	All construction sites	Contractor	Site observation	PMCSC's Environment Specialist and Construction supervisor	Do	Rented Houses have been used for labours for staying.

V. ENVIRONMENTAL MONITORING AND EVALUATION

22. In addition to desk reviews and site inspections, monitoring of selected environmental parameters have been conducted during the reporting period. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. For Project 1 subprojects, the parameters to be monitored are ambient air quality and noise levels.

23. The ambient air quality monitoring results are presented in **Table 10**. Results indicate that concentrations of parameters as measured “during construction” at all the Water Supply packages are within the CPCB limit. There is marginal increase in “during construction” SO₂ and NO₂ in compared to base line concentration level at Davangere Water Supply working locations. Both PM₁₀ and PM_{2.5} concentration levels decreased “during construction” stage for that package. There is marginal variation of concentration of air quality parameters for Davangere water supply distribution project. All parameters are within the standard. Similarly there is marginal variation of SO₂, NO₂, PM_{2.5} while considerable variations in PM₁₀ concentration at Harihara Water Supply project. At all the sites concentrations of SO₂, NO₂ are within the standards. The base line data shows that PM_{2.5}, PM₁₀ values are higher than the prescribed limits. During Construction, the values of PM_{2.5} got reduced while for PM₁₀ the values are higher than the base line values. There is not much variation of SO₂ and NO₂ concentrations. Suppression of dust through arrangement of water sprinkling is necessary. At Byadgi Water supply project sites concentration of SO₂, NO₂, PM₁₀ and PM_{2.5} are within the prescribed standards. There is not any variation of SO₂ and NO₂ concentration levels but the concentration of PM₁₀ and PM_{2.5} are marginally increased in compared to average base line concentrations. Application of mitigation measures i.e. suppression of dust is required. Complete test result certificates are available as back up papers with PMCSC and PIU. **Appendix 8** shows monitoring locations. Mitigation measures, like dust suppression will be applied as per EMP. Instruction has been given to the contractor for improvement of application of mitigation measures.

Table 10: Ambient Air Quality Monitoring at Sites of construction

Town	Phase	Sampling Locations	Date of Monitoring	Parameters			
				SO ₂ µg/m ³	NO ₂ µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Davangere (Package no. 01WS05)	Base line	Ashraya valley Near NH 4	20.05.2015	4.24	9.33	48.23	78.97
		SPS Nagar	20.05.2015	4.34	9.08	50.26	81.32
		Pune Bangalore Road near Sagar Motors	20.05.2015	4.25	9.37	51.18	90.72
	Average Baseline			4.3	9.3	49.9	83.7
	During Construction	Subramanian Nagar	17.10.2019	5.6	9.7	24.2	43.6
		Anjaneya Mill	17.10.2019	4.9	9.1	21.5	40.9
		Hale Kundwada	17.10.2019	8.5	16.3	31.5	60.9
		Anjaneya Badavane	17.10.2019	4.9	9.1	21.5	40.9
		DC Office, Karur	17.10.2019	7.5	14.7	25.9	54.3
		TV Station	17.10.2019	5.7	10.5	21.7	40.9
		Yeragunte	17.10.2019	7.5	14.9	30.8	62.1

Town	Phase	Sampling Locations	Date of Monitoring	Parameters			
				SO ₂ µg/m ³	NO ₂ µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
		SM Krishna Nagar	17.10.2019	5.4	8.9	22.5	41.3
		SSM Layout	18.10.2019	5.1	8.6	23.6	44.3
		Bathi WTP	18.10.2019	8.5	17.1	27.4	53.8
		Gandhi Nagar	18.10.2019	7.6	14.5	28.4	55.1
		Devraj Urs	18.10.2019	8.3	15.9	27.7	52.1
		Kendriya Vidyalaya, Yarangunte	18.10.2019	6.9	13.8	23.7	46.1
		Labour Camp, Belanur Road	18.10.2019	5.5	10.1	25.6	49.4
		Kunduwada WTP	18.10.2019	8.6	16.1	31.3	60.8
		KV Shetty Park	18.10.2019	6.6	12.9	23.8	48.1
		SM Krishna Extn	18.10.2019	8.3	16.6	30.9	59.5
		Shamnur	19.10.2019	5.1	7.6	20.4	38.7
		Basha Nagar	19.10.2019	4.3	7.9	20.1	38.9
		Taluk Office	19.10.2019	4.9	9.2	24.1	46.3
		ITI Park Nitavali	19.10.2019	5.3	9.1	26.1	50.9
		Avaragere	19.10.2019	5.9	11.2	25.5	48.4
		HPCL Petrol Bunk, Subramaniyam Nagar	19.10.2019	5.6	9.9	26.2	50.9
		BSNL Office PB Road	19.10.2019	5.2	9.6	24.2	45.3
		SMV Park	19.10.2019	5.9	11.5	19.7	41.5
		Azad Nagar	19.10.2019	6.0	11.7	23.6	45.7
		Basveswara Layout	21.10.2019	5.3	10.1	27.1	52.9
		JH Patel Nagar Park	21.10.2019	4.4	7.5	21.4	40.3
		Store Yard Near Belanur Road	21.10.2019	4.6	9.1	22.4	45.7
		Tungabhadra Extn	21.10.2019	4.2	7.1	20.3	38.7
		Vinoba Nagar	21.10.2019	4.3	8.1	19.4	39.9
		Santhe Maidan	21.10.2019	3.9	7.5	18.2	34.3
		Basapura	21.10.2019	3.5	6.5	17.4	35.1
		Basveswara Layout	21.10.2019	5.8	9.7	22.2	42.7
		SSM Layout	21.10.2019	5.6	10.7	25.1	46.4
	Average During construction			5.9	11.0	24.1	46.7
Harihara Water Supply (01WS04)	Base line	Near Indian Oil Petrol pump, Kumar Pattan	26.06.2017	4.93	9.95	94.86	148.73
		WTP site, Harihara	26.06.2017	4.75	9.81	84.32	116.24
		OHT site near Gajanan Temple, Amaravathi colony	26.06.2017	4.72	9.74	58.93	95.47
	Average Base line			4.8	9.83	79.37	120.14
	During Construction	Chintamani Nagar	03.10.2019	4.9	10.1	58.1	193.7
		Shivamoga Road	03.10.2019	5.7	10.4	71.6	169.3
		Davanagere Road	03.10.2019	4.41	10.6	42.7	85.2

Town	Phase	Sampling Locations	Date of Monitoring	Parameters			
				SO ₂ µg/m ³	NO ₂ µg/m ³	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
		IB Zone	03.10.2019	5.1	10.2	71.6	164.3
	Average During Construction			5.0	10.3	61.0	153.1
Byadgi Water Supply (01WS03)	Base Line monitoring	Bettaad Malleshwar Social Welfare Office (Ashray Colony)	16.09.2016	4.04	9.06	35.78	61.53
		Old Police station	16.09.2016	4.13	9.13	42.56	68.49
		STP land	16.09.2016	4.17	9.16	46.93	73.71
		Near Nehru Chawak (KSRTC Bus stand)	16.09.2016	4.15	9.11	38.27	63.94
		Near Town Municipal office	16.09.2016	4.22	9.21	48.61	76.19
	Average Base line			4.14	9.13	42.43	68.77
	During Construction	Basveswara Nagar	22.12.2019	4.16	9.41	44.2	88.2
		Nehru Nagar	22.12.2019	4.16	9.32	41.5	67.4
		Melagiri Plot	22.12.2019	4.15	9.16	46.32	73.5
	Average During Construction			4.15	9.3	44.0	76.3
		Standard as per CPCB		80.0	80.0	60.0	100.0

Note: CPCB – Central Pollution Control Board

Package no. 01WS03= 3 samples on 22.12.2019

Package no. 01WS04= 4 samples on 03.10.2019

Package no. 01WS05= 8 samples on 17.10.2019

Package no. 01WS05= 9 samples on 18.10.2019

Package no. 01WS05= 9 samples on 19.10.2019

Package no. 01WS05= 9 samples on 21.10.2019

24. The noise level monitoring has also been carried out for construction sites. **Table 11** shows noise level data. Complete test result certificates for 3 packages are available as back up papers with PMCSC and PIU. **Appendix 8** shows monitoring locations. It is noted from the results that noise levels at Davangere Water supply Distribution project location are within the standard for commercial areas but little higher than the residential areas. There is decrease of noise level at Davangere pipe laying sites in compared to base line value. At Harihara Water Supply package areas, noise levels are above the residential area standard but just marginally below the commercial area standard. Baseline Noise level is above the prescribed standards at Harihara water supply package locations. During construction Noise level is above the prescribed standards at Byadgi water supply construction sites. Noise level monitoring to be continued as per environment monitoring program throughout the construction period for understanding increase or decrease trend of noise level at project locations. To mitigate high

noise levels contractor to apply mitigation measures like control use of noise producing equipment, maintenance of equipments and finally use of PPE by worker or mitigation measures as prescribed in EMP.

25. The next environmental monitoring activities will be conducted within January to June 2020 to measure concentrations of parameters as done earlier and covering all running construction sites. The cost of the environmental monitoring is arranged from contractor budget (Ref. **Appendix 2**).

Table 11: Noise Level Monitoring at project sites of Davangere, Harihara and Byadgi

Town	Phase	Sampling Locations	Date of Monitoring	Day Time			Night Time Leq dB(A)			Noise Zone
				L Min dB(A)	L Max dB(A)	Leq dB(A)	L Min dB(A)	L Max dB(A)	Leq dB(A)	
Davangere (Package no. 01WS05)	Base line	Ashraya valley Near NH 4	20.05.2015	62.2	73.3	70.3	51.4	62.5	59.5	R
		Near SPS Nagar school	20.05.2015	65.4	69.0	67.6	53.5	64.6	61.6	S
		Pune Bangalore Road near Sagar Motors	20.05.2015	63.1	74.2	71.2	54.1	65.2	62.2	C
	Average Base line			63.5	72.2	69.7	53.0	64.1	61.1	
	During Construction	Subramanian Nagar	17.10.2019	58.3	59.1	-	44.3	44.9	-	R
		Anjaneya Mill	17.10.2019	60.5	60.9	-	42.5	42.6	-	R
		Hale Kundwada	17.10.2019	58.2	59.5	-	45.3	46.6	-	I
		Anjaneya Badavane	17.10.2019	52.3	53.5	-	44.5	44.9	-	R
		DC Office, Karur	17.10.2019	56.5	58.0	-	48.2	48.9	-	C
		TV Station	17.10.2019	62.0	62.5	-	50.0	51.8	-	I
		Yeragunte	17.10.2019	60.3	60.5	-	49.5	49.9	-	R
		SM Krishna Nagar	17.10.2019	62.3	62.7	-	50.0	51.2	-	R
		SSM Layout	18.10.2019	60.5	61.2	-	49.2	49.5	-	C
		Bathi WTP	18.10.2019	60.2	61.5	-	50.2	50.9	-	I
		Gandhi Nagar	18.10.2019	62.3	63.2	-	51.2	52.2	-	C
		Devraj Urs	18.10.2019	62.5	63.8	-	51.9	52.0	-	R
		Kendriya Vidyalaya, Yeragunte	18.10.2019	60.2	61.5	-	47.5	49.2	-	R
		Labour Camp, Belanur Road	18.10.2019	55.3	56.4	-	43.0	44.5	-	R
		Kundwada WTP	18.10.2019	57.2	58.4	-	45.3	47.5	-	I
		KV Shetty Park	18.10.2019	56.2	57.1	-	42.3	45.9	-	R
		SM Krishna Extn	18.10.2019	55.2	55.6	-	44.3	46.5	-	R
		Shamnur	19.10.2019	56.9	57.2	-	43.0	43.5	-	C
		Basha Nagar	19.10.2019	62.1	62.3	-	52.5	52.9	-	C
		Taluk Office	19.10.2019	62.3	62.5	-	49.3	50.6	-	C
		ITI Park Nitavali	19.10.2019	58.2	59.2	-	45.3	45.8	-	R
		Avaragere	19.10.2019	55.6	57.3	-	43.5	44.2	-	R
		HPCL Petrol Bunk, Subramaniyam Nagar	19.10.2019	60.2	60.8	-	47.4	48.3	-	I
		BSNL Office PB	19.10.2019	64.3	64.7	-	50.2	50.8	-	C

Town	Phase	Sampling Locations	Date of Monitoring	Day Time			Night Time Leq dB(A)			Noise Zone
				L Min dB(A)	L Max dB(A)	Leq dB(A)	L Min dB(A)	L Max dB(A)	Leq dB(A)	
		Road								
		SM Park	19.10.2019	58.2	58.9	-	49.3	49.8	-	R
		Azad Nagar	19.10.2019	55.6	57.3	-	52.5	53.8	-	I
		Basveswara Layout	21.10.2019	60.2	60.8	-	44.2	46.2	-	R
		JH Patel Nagar Park	21.10.2019	64.3	64.7	-	54.5	54.9	-	R
		Store Yard Near Belanur Road	21.10.2019	61.5	62.3	-	49.2	49.9	-	I
		Tungabhadra Extn	21.10.2019	57.3	59.3	-	44.3	47.2	-	R
		Vinoba Nagar	21.10.2019	57.9	58.5	-	44.2	44.9	-	R
		Santhe Maidan	21.10.2019	60.3	60.5	-	46.2	46.9	-	R
		Basapura	21.10.2019	59.2	59.6	-	49.5	49.8	-	C
		Basveswara Layout	21.10.2019	60.2	60.8	-	50.5	51.2	-	R
		SSM Layout	21.10.2019	60.5	62.3	-	50.2	50.9	-	R
	Average During construction			59.2	60.1	-	47.5	48.5	-	-
Harihara WSD (Package no. 01WS04)	Base line	Near STP site Kirloskar Factory	05.05.2015	60.0	68.6	63.0	54.3	65.4	62.4	I
		Near Anjaneya Temple Amaravathi	05.05.2015	49.3	61.6	61.1	50.4	61.5	58.5	S
		Guttur Colony Near Panchyat office	05.05.2015	58.9	69.7	62.7	53.6	64.7	61.7	R
	Average Base line			56.0	66.6	61.9	52.8	63.9	60.9	
	During Construction	Chintamani Nagar	03.10.2019	62.1	66.7	64.4	-	-	-	R
		Shivamoga Road	03.10.2019	66.4	69.9	68.1	-	-	-	C
		Davanagere Road	03.10.2019	61.9	64.8	63.3	-	-	-	C
		IB Zone	03.10.2019	60.7	65.8	63.2	-	-	-	C
	Average During construction			62.7	66.8	64.7	-	-	-	
Byadgi WSD Package 01WS03	Base Line monitoring	Bettaad Malleshwar Social Welfare Office (Ashray Colony)	16.09.2016	66.8	70.3	69.5	-	-	-	R
		Old Police station	16.09.2016	69.4	75.8	72.7	-	-	-	R
		STP land	16.09.2016	67.3	71.0	69.5	-	-	-	I
		Near Nehru Chowk(KSRTC Bus stand)	16.09.2016	70.3	75.6	74.5	-	-	-	R
		Near Town Municipal office	16.09.2016	69.4	74.8	72.4	-	-	-	C

Town	Phase	Sampling Locations	Date of Monitoring	Day Time			Night Time Leq dB(A)			Noise Zone
				L Min dB(A)	L Max dB(A)	Leq dB(A)	L Min dB(A)	L Max dB(A)	Leq dB(A)	
	Average Base line			68.6	73.5	71.7				
	During Construction	Basvesvara Nagar	22.12.2019	61.3	72.5	65.4	-	-	-	R
		Nehru Nagar	22.12.2019	69.3	74.5	71.4	-	-	-	R
		Melagiri Plot	22.12.2019	69.4	74.5	67.4	-	-	-	C
	Average During Construction			66.6	73.8	68.0				

Monitoring conducted during report period from July to December 2019,

Package no. 01WS05= 8 samples on 17.10.2019

Package no. 01WS05= 9 samples on 18.10.2019

Package no. 01WS05= 9 samples on 19.10.2019

Package no. 01WS05= 9 samples on 21.10.2019

Package no. 01WS04= 4 samples on 03.10.2019

Package no. 01WS03= 3 samples on 22.12.2019

CPCB Limits for Industrial area (I): Day Time= 75 dB(A), Night Time (10 PM to 6 AM)= 70 dB(A)

Commercial (C) area: Day Time= 65 dB(A), Night Time (10 PM to 6 AM)= 55 dB(A)

Residential (R) area: Day Time= 55 dB(A), Night Time (10 PM to 6 AM)= 45 dB(A)

Silence Zone (S): Day Time= 50 dB(A), Night Time (10 PM to 6 AM)= 40 dB(A)

26. For Davanagere, Harihara and Byadgi WSD packages, monitoring has been conducted for drinking water and bore well water. All concentrations are within the limit. Result certificates are available with PIU and PMCSC.

27. A performance monitoring fact sheet has been prepared to facilitate tracking and quick reference on environmental monitoring of Project 1 subproject packages (**Tables 12 and 13**).

**Table 12: Performance Fact Sheet for Required Environmental Consents/Clearances of KIUWMIP Project 1 (Package-wise)-
Only Egis India Consult Scope part**

	Package	Name of Contractor	EMP Part of contract Document(Yes / No)	Environmental Consents / Clearances Required					
				Tree Cutting	Crusher	Batching Plant	Hot Mix Plant	Diesel Generator Set	Pollution Under Control (PUC) Certificates for Contractor's Vehicles
1	Construction of Distribution Network-Operator assisted in Davangere including 8 Years O & M of 24 x 7 Davangere Water Supply System – Package No. 01WS05	M/s Suez Projects Pvt Ltd	Yes	Not required till date	Not required	Not required as per present work	Not required as per present work	Not required as per present work	Obtained
2	Construction of Distribution Network-Operator assisted in Harihara including 8 Years O & M of 24 x 7 Harihara Water Supply System Package No. 01WS04	M/s Veolia India Pvt Ltd	Yes	Not required till date.	Not required	Not required as per present work	Not required as per present work	Not required as per present work	Obtained
3	Construction of Distribution Network-Operator assisted in Byadgi including 8 Years O & M of 24 x 7 Byadgi Water Supply System Package No. 01WS03	M/s SHRIRAM EPC Ltd.	Yes	Not required till date	Not required	Not required as per present work	Not required as per present work	Not required as per present work	Obtained

Table 13: Performance Fact Sheet for EMP Implementation of KIUWMIP Project 1 (Package-wise) Only Egis India Consult
Scope part

	Package Number	Name of Contractor	EMP Part of contract Document(Yes / No)	Contractor Social/ Environment Person ¹	Overall Status of EMP Implementation	Field to be Monitored as per EMP												
						Source of Materials	Camp Sites	Landscape and Aesthetics	Air Quality	Noise Level	Traffic	Ecological Resources – Terrestrial	Accessibility	Water Quality	Occupational Health & safety	Community Health & safety	Socio cultural resources	Employment generation
						In compliance (2) / Partial Compliance (1) / Not in compliance (0) / Not applicable (n/a)												
1	Construction of Distribution Network-Operator assisted in Davangere including 8 Years O & M of 24 x 7 Davangere Water Supply System – Package No. 01WS05	M/s Suez Projects Pvt Ltd.	Yes	Nominated	Complied	2	2	1	2	2	2	NA	2	2	2	2	2	2
2	Construction of Distribution Network-Operator assisted in Harihara including 8 Years O & M of 24 x 7 Harihara Water Supply System Package No. 01WS04	M/s Veolia India Pvt Ltd	Yes	Nominated	Complied	2	1	1	2	2	2	NA	2	2	1	1	2	2
3	Construction of Distribution Network-Operator assisted in Byadgi including 8 Years O & M of 24 x 7 Byadgi Water Supply System Package No. 01WS03	M/s SHRIRAM EPC Ltd.	Yes	Nominated	Complied	2	1	1	2	2	2	NA	2	2	1	1	2	2

Note calculation of numerical value for determining performance status- Calculation is based on addition of numerical value like below-

Package No. 01WS05= Total score- 2+2+1+2+2+2+2+2+2+2= 23. Number of operated field=12, **Then- 23/12=1.91≈ 2, More than 1.5, Complied**

Package No. 01WS04= Total score- 2+1+1+2+2+2+2+1+1+2+2= 20. Number of operated field=12, **Then- 20/12=1.66≈ 2, More than 1.5, Complied**

Package No. 01WS03= Total score- 2+1+1+2+2+2+2+1+1+2+2= 20. Number of operated field= 12. **Then – 20/12=1.66≈ 2, More than 1.5, Complied**

(Partial impact on landscape and aesthetics due to incomplete disposal of excess earth/ waste, Partial compliance of community health and safety due to partial use of caution tape and unsatisfactory camp site management)

¹Nomination of Environmental & Social Safeguard Officer by Contractor(Nominated / Yet to be Nominated)

VI. CONSULTATIONS AND DISCLOSURES CONDUCTED

28. As per approved IEE, consultations and disclosure will be a continuous process throughout Project 1 implementation involving public consultations and focus group discussions. Field level consultation has been done at Davangere, Harihara and Byadgi during the report period. Sample filled public consultation format is attached as **Appendix 13**.

29. During implementation of project general discussion has been done with the local public at Davanagere, Harihara and Byadgi along pipe laying locations of impact zone. Such consultation is basically one to one discussion with public and generally to be continued throughout the construction period. The issues like requirement of restoration of utility services, removal of overburden soil, road restoration done or not, dust and noise pollution during implementation of the project, community safety arrangement, availability of public access have been discussed and views has been tabulated.

30. Outcome of consultation as follows,

- ✓ There is no issue on impact of utility services like PHE line etc.
- ✓ Excess earth removed in most of the cases. Public have no complaint on that
- ✓ Road restoration done without affecting the public
- ✓ There is minimum impact due to generation of dust and noise from project activity
- ✓ Arrangement of caution tape is done in most of the cases. No public complaint
- ✓ Local movement of public is not affected. Alternate access provided

31. The indicative schedule for consultations and disclosure is presented in **Table 14**.

Table 14: Indicative Schedule for Consultations and Disclosure

Type of Consultation/Disclosure	Target Date	Location	Target Participants	Responsible Person and Source of Funds
Local level consultation	Weekly – to be continued	At all construction locations	General public, shop keepers, pedestrian population	Construction supervisor, Environment & safety officer of contractor Project budget – continuous process
Consultation – safety issues, implementation of EMP	Bi-monthly	Davangere, Byadgi and Harihara	Supervisor Engineer, PIU Engineer, all safety and environment staff of contractors	Resident Engineer, Environment specialist of PMCSC, Asst Executive Engineer (Environment) PMU

32. During the report period a Short-Term Training-Cum-Awareness Programme was organized at City Corporation Zonal Office Building, Davanagere. The emphasis of the Training programme was on Occupational Health and Safety issues at work sites, Safeguard measures and its implementation in the Sub-Projects of Tranche-1-KIUWMIP- Karnataka Water Supply Project. All Asst. Engineers of PIUs, RPMU, all resident engineers PMCSC from all working sites, all Safety Officers of the Contractor agencies have participated in the Training Programme. The details are attached as **Appendix 14**.

VII. GRIEVANCE REDRESS MECHANISM

33. As per approved IEE, a project-specific grievance redress mechanism (GRM) has been established to receive, evaluate and facilitate the resolution of affected people's concerns, complaints and grievances about the social and environmental performance at the level of the Project. The GRM aims to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. The project-specific GRM is not intended to bypass the government's own redress process; rather it is intended to address affected people's concerns and complaints promptly, making it readily accessible to all segments of the affected people and is scaled to the risks and impacts of the project.

34. The GRC/SC for the project will be headed by Dy. Commissioner (DC) of the district with members as followed: (1) ULB Commissioners of project towns, (2) Revenue Department (Registrar) official, (3) RPMU Social safeguard/ R&R Officer of KIUWMIP, (4) ULB officer who will convene the periodic meeting of GRC and will shoulder responsibility of keeping records of grievances/ complaints in details with help from resettlement NGO. Other members, such as, NGO/CBO representatives, wards council representatives, DPs' representatives will be selected by the ULB Commissioner to represent in the GRC/SC meeting. NGO should also deploy one person in the team who will be responsible for coordinating with all GRC members and the DPs for grievance redress.

35. In the event when the established GRM is not in a position to resolve the issue, Affected Person also can use the ADB Accountability Mechanism (AM) through directly contact (in writing) to the Complaint Receiving Officer (CRO) at ADB headquarters or to ADB Indian Resident Mission (INRM). The complaint can be submitted in any of the official languages of ADB's DMCs. The ADB Accountability Mechanism information will be included in the PID to be distributed to the affected communities, as part of the project GRM. A Grievance Redress Mechanism is shown in the **Figure 3**.

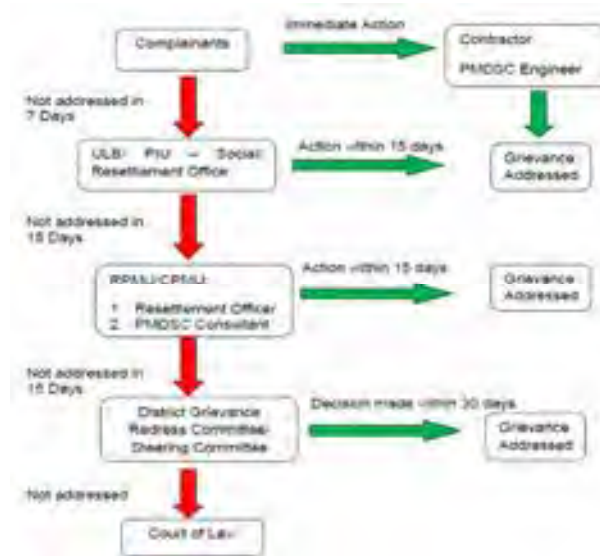


Figure 3: Grievance Redress Process

36. The PIUs will make the public aware of the GRM through public awareness campaigns. Grievances can be filed in writing using the Complaint Register and Complaint Form or by phone with any member of the PIU. The contact phone number of the respective PIUs and the RPMU will serve as a hotline for complaints and will be publicized through the media and placed on notice boards outside their offices and at construction sites.

37. Already complaint register and accident register are kept at the contractor level. Sample copy of registration of grievances and addressing of grievances is attached as **Appendix 15**. Till date all grievances are resolved at the contractors' level. Accident record is available with the contractor and analysis of accidents provided in **Annexure 16**. There is not as such any accident from the working locations during the report period except a very few minor injuries resulted due to inattention of the labours during work period.

VIII. FINDINGS AND RECOMMENDATIONS

38. Based on environmental monitoring conducted during July to December 2019, KIUWMIP Project 1 (EGIS India Consulting Engineers Pvt.Ltd. **Scope**) is in mixed (partial to fully complied) compliance level of environmental safeguards. The main partial non-compliances include:

- Time period for construction work for particular area and contact details of PIU, Contractor, consultant in project display board for any grievances or suggestion should be included at the working sites.
- Partial use of project display board for Harihara water supply distribution (WSD) package
- Need to improve use of PPE by contractor's workers. Use of PPE should be at all times as per site condition and work type. Particularly use of shoes, hand gloves and safety belt (when working at height)
- Temporary placement of caution tape is noted for all the packages. Improvement in complete use of caution tape at all working areas required.
- The labour camp is to be maintained properly for Harihara Water Supply package
- The housekeeping is to be maintained properly at Davanagere, Harihara and Byadgi packages
- Improvements in Toilets and Bathroom facility are required for Davanagere and Harihara packages.
- First Aid Box should be maintained with sufficient first aid materials at all working sites of Davanagere, Harihara and Byadgi Water Supply Packages
- Fire extinguishers should be provided at labour camps at Harihara
- Waste is to be disposed at all the designated approved disposal sites along with the concurrence from the concerned authority for all packages.

39. **Table 15** provides the recommended corrective action plan to address the non-compliances and partially compliances.

Table 15: Corrective Action Plan

	Non-compliance Issues	Action Required	Responsible	Target Date	Indicator of Compliance
1	Project Display board containing Time period for construction work for particular area and contact details of PIU, Contractor, consultant for any grievances or suggestions should be provided at all the working sites	Arrangement of display board with all information.	Contractor	Immediate	Information disclosure
2	No or partial use of project display board for Byadgi water supply distribution (WSD) package	Complete use of display board	Contractor	Immediate	Site observation
3	Need to improve use of PPE by contractor's workers. Use of PPE should be at all times as per site condition and work type. Particularly use of shoes, hand gloves and safety belt (when working at height)	Use of PPE should be at all times as per site condition and work type.	Contractor	Immediate and on regular basis with record	Availability and use of PPE
4	Temporary placement of caution tape is noted for all the packages. Improvement/ complete use of caution tape at working areas required	Improvement/ complete use of caution tape at all working areas required	Contractor	Immediate	Site observation
5	The labour camp is to be maintained properly for Harihara Water Supply package	Immediate Improvement of labour staying arrangement at labour camps of Harihara WSD package	Contractor	Immediate	Site observation
6	The house keeping is to be maintained properly for Harihara and Byadgi Packages and Davanagere to some extent	Immediate Improvement of housekeeping of Byadgi, Harihara and Davanagere WSD packages	Contractor	Immediate	Site observation
7	Improvements in Toilets and Bathroom facility, housekeeping are required for Davanagere and Harihara packages	Improvements in Toilets and Bathroom facility, housekeeping are required for Davanagere and Harihara packages	Contractor	Immediate	Site observation
8	First Aid Box should be maintained with sufficient first aid materials at all working sites of Harihara and Byadgi Water Supply Packages	Improvement is required for first aid box. First aid materials should be sufficient	Contractor	Immediate	Site observation
9	Fire extinguisher should be provided at Court Zone Harihara labour camp	Fire extinguishers should be provided at labour camp	Contractor	Immediate	Site observation
10	Dumping of Waste Material at	Waste Material is to be disposed at the	Contractor	within two weeks	Documentation & Site observ

	Non-compliance Issues	Action Required	Responsible	Target Date	Indicator of Compliance
	designated disposal sites approved by the department at Davanagere, Harihara and Byadgi packages.	dump site to be identified in concurrence with the department.			ation

Appendix 1: Photo Illustration



Improper Hard Barricading at TV Station OHT Site-Davangere Water Supply Distribution (WSD) package



Excavated soil remain exposed during rainy season at Over Head Tank Site at Nattavalli - Davangere WSD package



PPEs observed at Height Works at OHT Site – Davangere WSD package



Scaffolding Erection Work is in Progress at TV Station OHT Site- Davangere WSD package



Traffic Diversion along with Barricading is being done with the help of Traffic Police at Hadadi Road Pipe Laying Site - Davangere WSD package



Fire Extinguishers provided at Belganur Labour Camp- Davanagere WSD package



Water Sampling at HSC Site– Davangere Water Supply Distribution (WSD) package



Ambient Air Quality Monitoring work - Davanagere WSD package



Noise Level Monitoring work at Anjaneya Mill School- Davanagere WSD package



Safety Training at Work Site- Davanagere WSD package



Project Information Sign Board at MSK Nagar OHT Site - Davanagere WSD package



Labour Camp at Belganur - Davanagere WSD package



**Kalpanahalle Waste Dumping Site-
Davanagere WSD**



**Metal Sheet Fencing Provided at Avaragere
OHT Site- Davanagere WSD**



**Snake Bite First Aid Kit at Lokikere Store
Yard- Davanagere WSD**



**First Aid Box at Anjanaya Mill OHT-
Davanagere WSD**



**Road prepared for the Community for ease of
commuting at Basvesvara Nagar OHT Site -
Davanagere WSD**



**Scafofding Training cum Emergency Rescue
Procedures- Davanagere WSD**



Labours with Partial PPEs observed at Vinayak Badavane Pipe Laying Site-Davanagere WSD



Caution Tape along with Caution Sign Board observed at Vinayak Badavane Pipe Laying Site-Davanagere WSD



Wooden Scaffolding Work at Indira Nagar OHT, Harihara WSD



First Aid Box at Storage Yard, Machenahalle, Harihara WSD



Partial PPEs observed at IB Zone 4 Pipe Jointing ,Harihara WSD



Storage Yard, Machenahalle, Harihara WSD



Labour Camp not as per Standards at Indira Nagar OHT Site, Harihara WSD



School Premise Hard Barricading is in progress at Indira Nagar OHT, Harihara WSD



Improper House Keeping Court Zone OHT, Harihara WSD



Safety Net provided at Court ZONE OHT, Harihara WSD



Project Information Board at Court Zone OHT site, Harihara WSD



Caution Board along with Caution Tape noted at Indira Nagar Pipe Laying work, Harihara WSD



Improper Storage of Materials at Indira Nagar OHT Site, Harihara WSD



Fire Extinguisher at Labour Camp, Indira Nagar OHT Site, Harihara WSD



Caution, Project Information Sign Boards along with Caution Tape noted at Nehru Nagar OHT Site, Byadgi WSD



Partial PPEs, No caution Tape noted at Road Cutting Work, Islampur Galli, Byadgi WSD



Caution Tape Barricading and PPEs observed during pipe laying at Vidya Nagar- Byadgi WSD



House Service Connections are being done at Police Quarters, Byadgi WSD package



Caution Tape Barricading at Hallepete Pipe Laying Work - Byadgi WSD



Improper Housekeeping at Nehru Nagar OHT-Byadgi WSD

Monitoring Budget


Sr. no.	Package	Tentative Monitoring budget (in Rs.) 2020-2021
1	Davanagere 24x7 Water Supply Distribution (01WS05)	64,00,000.00
2	Harihara Water Supply Distribution (01WS04)	10,30,000.00
3	Byadgi Water Supply Distribution (01WS03)	9,00,000.00

Labour license

Davangere- Water Supply Distribution System (Package no.: 01WS05)

LD1421100009537

1 - Amendment Certificate



GOVERNMENT OF KARNATAKA
DEPARTMENT OF LABOUR

Licence No: ALC-BAL/CLA/C-100020808/2018-19

Assistant Labour Commissioner, Bellary Division, Davangere
Davangere Hanhara Urban Development Authority Building, Near Devanaja Urs Layout, Commercial Tax Office, Davangere-577006

Registration No ALCD/CLA/RGN-173/2012-13

FORM-VI
[See Rule 25(1)]

1. Amended Licence is here by granted to M/s Suez Projects Pvt Ltd, Unitech Business Park, Tower-A, 1st Floor, South City-1, Gurugram, C/o 565/A, 2nd Floor, Sapthagiri. Under Section 12(1) of the Contract Labour [Regulation And Abolition] Act-1970, subject to the conditions specified in annexure.

2. This Licence is for doing the work Construction of 24X7 Davangere WaterSupply System(Construction of 24X7 Davangere WaterSupply System) in the establishment of Commissioner Davangere City Corporation, P.B. Road, Davangere.

3. The Licence shall remain in force till 18/05/2020

Licence
[Rule-29]

Sl. NO	Date Of Licence	Fee Paid for Licence	Date Of Expiry
1	18/05/2019	Rs.LicenceFeeAmount:5000, SecurityDepositAmount:22500.00	18/05/2020

Amended As Per Rule 25(i) contract Labour Act WEF Nov 6 2019 12:27PM

Amendments:

	OLD	NEW
Address of the Contractor	Unitech Business Park, Tower-A, 1st Floor, South City-1, Gurugram, C/o 565/A, 2nd Floor, Sapthagiri SSS Plaza, Beside Income Tax Office, Hadad Road, Davangere	Unitech Business Park, Tower-A, 1st Floor, South City-1, Gurugram, C/o 565/A, 2nd Floor, Sapthagiri
Division	BALLARI	BALLARI
District/Sub Division		3 3

Email-ID		
Fax	08192260123	08192260123
Nature of work	Construction of 24X7 Davanagere WaterSupply System(Construction of 24X7 Davanagere WaterSupply System)	Construction of 24X7 Davanagere WaterSupply System(Construction of 24X7 Davanagere WaterSupply System)
Contract Commencement Date	18-05-2018	May 18 2019 12:00AM
Contract End Date		
Name Of the Agent	Rajartan Vitthal Kulkarni	Rajartan Vitthal Kulkarni
Address Of Agent	C/o 565/A, 2nd Floor, Sapthagiri SSS Plaza, Beside Income Tax Office, Hadadi Road, Davanagere	C/o 565/A, 2nd Floor, Sapthagiri SSS Plaza, Beside Income Tax Office, Hadadi Road, Davanagere
No of Workers (Female)		40 0
No of Workers (Male)		600 600
Maximum Number Of Contract Labour	300	600
Name of Contractor	M/s Suez Projects Pvt Ltd	M/s Suez Projects Pvt Ltd

Please, verify authenticity of by visiting
www.labouronline.kar.nic.in & entering certificate Number

Assistant Labour Commissioner,
 Bellary Division, Davanagere
 ಸಹಾಯಕ ಕಾರ್ಮಿಕ ಅಯುಕ್ತರು
 ಬಳ್ಳಾರಿ ವಿಭಾಗ, ದಾವಣಗೆರೆ

Harihara- Water Supply Distribution System (Package no.: 01WS04)

LD1521000046451

2 - Renewal Certificate



GOVERNMENT OF KARNATAKA
DEPARTMENT OF LABOUR

Licence No : ALC-BAL/CLAVC-100016632/2017-18
Registration No : ALCB/CLAV/RGN-194/2012-2013

Assistant Labour
Commissioner, Bellary
Division, Davangere
Davangere Harihara Urban
Development Authority
Building, Near Devaraja
Urs Layout, Commercial
Tax Office, Davangere-
577008

Licence Date: Feb. 6 2018

FORM-VI
(See Rule 25(1))

1. Licence is hereby granted to M/s Yedha India Private Limited, B-1, Marble Arch, 2 Prithviraj Road, New Delhi C/o HIG-100, KHBCL, Amaravathi, Harihar Under Section 12(1) of the Contract Labour (Regulation and Abolition) Act-1970, subject to the conditions specified in annexure.

2. This Licence is for doing the work Construction and Distribution of Water Supply in the establishment of City Municipal Council Harihar, Harihar

3. The Licence shall remain in force till 01/09/2020

Renewal
(Rule 25)

Sl no.	Date of Licence Renewal	Date of expiry	Fee paid for Licence Renewal	Next Date of expiry
1	16-08-2019	01-09-2019	LICENCE FEE 2250. PENALTY 0	01/09/2020

Please, verify authenticity of by visiting
www.labouronline.kar.nic.in & entering certificate Number


Assistant Labour Commissioner,
Bellary Division, Davangere
ಸಹಾಯಕ ಕಾರ್ಮಿಕ ಅಯುಕ್ತರು
ಬಳ್ಳಾರಿ ವಿಭಾಗ, ದಾವಣಗೆರೆ

Byadgi- Water Supply Distribution System (Package no.: 01WS03)

LD1521000036695



1 - Renewal Certificate



**GOVERNMENT OF KARNATAKA
DEPARTMENT OF LABOUR**

ALC-DH/CLA/C-100016521/2018-19

Registration No: ALC-DH/CLA/P-1000003302/2016-17

Assistant Labour
Commissioner,
Dharwad Division, Hubli
Srinath Complex, New
Cotton Market, Neeligen
Road, Hubli

Licence Date: Apr 3 2018

FORM-VI

[See Rule 25(1)]

1. Licence is here by granted to **SHRIRAM EPC LIMITED, SIGAPI ACHIL BUILDING, 4TH FLOOR, 18/3, RUKMANI LAKSHMIPATHY SALAL EGMORE, CHENNAI-600008** Under Section 12(1) of the Contract Labour [Regulation and Abolition] Act-1970, subject to the conditions specified in annexure.

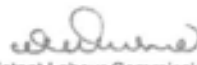
2. This Licence is for doing the work **CONSTRUCTION AND DISTRIBUTION OF WATER SUPPLY** in the establishment of **TOWN MUNICIPAL COUNCIL, BYADGI TMC, HAVERI DISTRICT**

3. The Licence shall remain in force till : **10/02/2020**

Renewal
[Rule 29]

Sl no.	Date of Licence	Renewal	Date of expiry	Fee paid for Licence Renewal	Next Date of expiry
1	25-04-2019		10-02-2019	LICENCE FEE:1500, PENALTY:375	10/02/2020

Please, verify authenticity of by visiting
www.labouronline.kar.nic.in & entering certificate Number




Assistant Labour Commissioner,
Dharwad Division, Hubli

Licensing Officer,
Under Cap-r-1 Labour Act &
Assistant Labour Commissioner
Dharwad Div. HUBLI

Labour compensation Insurance

Davangere- Water Supply Distribution System (Package no.: 01WS05)

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE

Insured's Name : SUEZ PROJECTS PRIVATE LIMITED			
Insured's Details		Issuing Office Details	
Customer ID	: PD61119215	Office Code	: Delhi LCO 930000 (930000)
Address	: CITY CORPORATION, DAVANGERE, KARNATAKA, REPRESENTED BY THE COMMISSIONER OPPOSITE RAILWAY STATION, PB ROAD, DAVANAGERE-577 002, DAVANAGERE, KARNATAKA, 577002	Address	: 301 R.G.CITY CENTER LSC, BLOCK B, LAWRENCE ROAD, NEW DELHI, 110035
Phone No	: 9871452023	Phone No	: 27196509 / 27196510
E-mail/Fax	: dhamesh.s@biodamail.com, /	E-mail/Fax	: nia.930000@newindia.co.in / 27196515
PAN No	: AABCD3192N	S.Tax Regn. No	: AAACN4185CST178
GSTIN/UIN	: 29AABCD3192N1Z8 / NA	GSTIN	: 07AAACN4185C1ZT
		SAC	: 997139 (Other non-life insurance services exd R)

Policy Details			
Policy Number	: 93000008190100000007	Business Source Code	
Period of Insurance	: From: 18/06/2019 12:00:01 AM To: 17/06/2020 11:59:59 PM	Dev.Off level/Broker/Corp. Agent	: J.B. BOOA INSURANCE & REINSURANCE BROKERS PVT LTD. - (DM2347225) JB BOOA-311800 (9300063547)
Date of Proposal	: 18-Jun-19	Agent/Bancassurance	
Prev. Policy no.	: 93000008190100000007	Phone No	: 29402878, 8912502165, 9440281062 / NA
Client Type	: Corporate	E-mail/Fax	: accounts@biodamail.com, / / /

Premium(₹)	GST(₹)	Total (₹)	Total (₹ in words)	Receipt No. & Date
253308	45595	298903	RUPEES TWO LAC NINETY-EIGHT THOUSAND NINE HUNDRED THREE ONLY	93000008119000000185 0 - 17/06/19

Details of Employees with monthly wages upto ₹ 8000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Details of Employees with monthly wages above ₹ 8000:			
Categories	Sub Categories	No of Employee	Cash Total Wages
Warehouse-Group IV	Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	300	45750240
Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
24 X 7 WATER SUPPLY	24 X 7 WATER SUPPLY	The Employer is City Corporation, Davangere, Karnataka represented by the Commissioner Opposite Railway Station, PB Road, Davanagere-577 002	

Contractor/Sub-Contractor Details:

Serial No	Name of Contractor	Description	Category	No. of Workers	Amount Wages
				Skilled Unskilled Others	

Extensions under the Policy Cover:

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension

Policy No. : 93000008190100000007 Document generated by 32209 at 17/06/2019 16:47:27 Hours.
Regd. & Head Office: New India Assurance Bldg., 57 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 239 1415.

Page 1 of 2



Special Conditions	SKILLED/CLERICAL- 30 WORKERS (RS. 14,888/-) UNSKILLED- 270 WORKERS (₹ 12,465/-)
	NA

Special Exclusions	NA
Special Excess/Deductible	NA

The Policy shall be subject to EMPLOYEES COMPENSATION INSURANCE. Policy clauses attached herewith.

Clauses	Description
---------	-------------

Premium and GST Details

	Rate of Tax	Amount in INR
Premium		₹ 253508.00
SGST	0	0
CGST	0	0
IGST	18	45595

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 17th day of June, 2019.

For and on behalf of

The New India Assurance Company Limited

Date of Issue- 12/06/2019	
---------------------------	--

Duly Constituted Attorney(s)

Stamp Duty under the Policy is ₹1

Mudrank _____ Dt. _____ consolidated Stamp Fees Paid by Pay Order Number _____ vide receipt.

number _____ dt. _____

Tax Invoice No : 93000019E0003875

IRDA Registration Number: 190

Harihara- Water Supply Distribution System (Package no.: 01WS04)



Employees Compensation Insurance Policy- Policy Schedule				
Policy Servicing Office	Off Code-12,Future Generali India Insurance Co Ltd, 303-310, 3rd floor, Kailash Building, K.G. Marg, Connaught Place, Delhi, Pincode- 110001., Tel. No : 011-42660300			
Policy No	2019-L0147657-FWC	Period of Insurance	From 00:01 24/11/2019 To Midnight of 23/11/2020	
Insured	M/s Veolia India Pvt. Ltd. and The Municipal Commissioner, Har thara	Intermediary Name/Code	MARSH INDIA INSURANCE BROKERS PVT. LTD/60000141	
Address	1144, 12th Main, 1st Cross, HAL II Stage,, Bangalore, Karnataka, 560008	Telephone(Mob,Hom)	7045985169/7045985169	
GSTIN Number	29AABCV7389R1Z3	Email Id	MAYANK.SHUKLA@MARSH.COM	
		FGI GSTIN Number	07AABCF0191R1ZB	
In consideration of the Policy holder named herein paying to the Future Generali India Insurance Company Limited (herein after called the Insurer) the premium as stated in the Schedule and in reliance upon the statements made by the Policy holder in the proposal including its attachments or otherwise, and the material incorporated therein, the Insurer agrees to provide insurance against loss damage liability or expense to the extent and in the manner herein provided subject to all terms, conditions, exceptions and warranties hereinafter set forth.				
Co-Insurance Details		Schedule Of Premium (₹)		
Insurer	Share (In %)	Gross Premium	27,259.17	
FUTURE GENERALI INDIA INSURANCE COMPANY LIMITED	100%	Goods and Service Tax	4,906.65	
		Total Premium	32,166.00	
Risk Details				
Nature of Business	Design,Laying of Pipeline,Supply and Installation of Electromechanical Equipments , Construction of Water treatment Plants			
Location	HIG - 100 , KHBC , Amaravathi , Harihara - 577601 Karnataka			
Contractor/Sub-Contractor Name	M/s Veolia India Pvt. Ltd. and The Municipal Commissioner, Harihara			
No of Employees	Description of work	Declared Wages during the Period of Insurance (₹)		
8	Employees	2,900,000.00		
20	Jr. Staff	3,600,000.00		
50	Labour	4,800,000.00		
Total		11,300,000.00		
Additional Coverages				
Sr.No	Cover Description	No of Workers	Sum Insured for each workers	Total Sum Insured (₹)
1	Medical Extension	78	50,000	3,900,000
Coverage Details				
The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law:				
Law	Limit of Indemnity	Coverage		
Employee's Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured	Yes		
Common Law/ Fatal Accident		Yes		
Law(s)				
WC Act 1923 and subsequent amendment of the said Act prior to the date of issue of the policy provided that the insurance granted hereunder is not extended to include i. Any interest and/or penalty imposed on the insured on account of his/their failure to comply with the requirements laid down under WC Act 1923 ii. Occupational disease of any kind.				
Additional Clauses, Conditions, Warranties & Exclusions				
Terrorism is excluded from coverage. No cover for Medical Expenses, Unless specifically allowed in the policy. Territory/Jurisdiction: Any where in India Excluding works on high tension / live wires. Warranted that the insured maintains and ensures at all times that its employees use all safety gears during their work in premises Testing of any kind stands excluded. Tunneling / Blasting and use of Explosive are expressly excluded from the scope of the cover. Excluding any death due solely and directly to working in or being released from compressed air or disablement of any kind arising from caisson disease otherwise called compressed air sickness. Laying of empty pipelines only are covered in the scope of the policy No Cover for occupational Diseases Electromagnetic field exclusion Excluding the making of sewers and/or other excavations exceeding in any part a depth of 3 meters from the surface. Medical Extension covered upto Rs. 50,000/- per person as per annexure attached. Contractors/ subcontractors workmen stands covered. Details of contractor /subcontractors to be provided at the time of Claim if Any.				
Sanction Limitation Exclusion Endorsement No Insurer shall be deemed to provide cover and no insurer shall be liable to pay any claim or provide any benefit hereunder to the extent that the provisions of such cover, payment of such claim or provision of such benefit would expose that insurer to any sanction, prohibition or restriction under United Nations resolutions or the trade or economic sanctions, laws or regulations of the European Union, United Kingdom or United State of America				
Important:- 1. All other Terms, Conditions and Exclusions as per attached Policy Wordings. 2. In case of payment by cheque, in the event of dishonour of cheque for any reason whatsoever, insurance provided under this document automatically stands cancelled from the inception irrespective of whether a separate communication is sent or not.				
For Future Generali India Insurance Co. Ltd.				



Future Generali India Insurance Company Limited, Corporate & Registered Office: 6th Floor, Tower - 3, Indiabulls Finance Center, Senapati Bapat Marg, Elphinstone Road, Mumbai - 400013, Maharashtra. Care Line:- 1800-220-233, 1860-500-3333, 022-67837800. Email: fgcare@futuregenerali.in. Website: www.futuregenerali.in. IRDA Regn.No. 132, CTN - U66030MH2006PLC165287.

Byadgi- Water Supply Distribution System (Package no.: 01WS03)

IRDA Registration Number - 137

CIN No. U66010RJ2005PLC029979

SHRIRAM EMPLOYEES COMPENSATION INSURANCE - POLICY SCHEDULE

Shriram Employees Compensation Insurance Policy - UR NO. IRDAN127CP0613V52291819 - SAC Code: 907138

Policy No.	: 421010/48/20/001358	Prev. Policy No.	: 421010/48/19/008985
Cover Note No.	: M1106626	Cover Note Date	: 26-JUN-19
Insured's Code	: 6570708	Issue Office code	: 421010
Insured's Name	: M/S. Shriram EPC Limited - GSTIN No. - 33AAFGS1410C126	Issue Office Name	: CHENNAI
Address	: 18/3, 4th Floor, Sigappi Achi Building, Rukmini Lakshmi Pathi Salai (Marshall's Road), Egmore CHENNAI TAMIL NADU 600008	Address	: 2ND FLOOR, MODAKAMBIKA COMPLEX, NO.4, LADY DESIKA ROAD MYLAPORE CHENNAI TAMIL NADU 600004
Tel./Fax/Email	: 044 434 18700 /	Tel./Fax/Email	: 7412078259 / 7412078260 / 7412078263 / / agi.chennai@shriramgi.com
Dev. Officer	: _	Broker Details / W.	: LB0000000002 M/S. BHARAT RE-INSURANCE BROKERS PVT. LTD. // Contact No:
Period of Insurance	: From 00:00 on 25/06/2019 To Midnight of 25/06/2020 (Both days Inclusive)		
Gross Premium	209,300	S Tax: 0	GST: 37674 Cess: 0 ST Duty 105 Total: 246,974

Co-insurance Details : NIL

Business : Engineers not otherwise classified - Incl. work away from shop or yard upto 9 mtrs height.

Laws : The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law :

LAW	LIMIT OF INDEMNITY	COVERAGE
Employee's Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of Liability incurred by the Insured	Yes

SCHEDULE OF PREMIUM

Cover Description	Premium
TOTAL PREMIUM	2,09,300.00
ADD -CGST	18,637.00
ADD -SGST	18,637.00
TOTAL AMOUNT	2,46,974.00

Place : CHENNAI

Date : 27/06/2019

All the amounts mentioned in this policy are in Indian Rupees

For and on behalf of
SHRIRAM GENERAL INSURANCE COMPANY LTD
Authorised Signatory

GSTIN No. - 33AAKCS2599K12A

Page 1 of 2

Attached to and forming part of policy number 421010/48/20/001358

Details of the Employees Covered			
Description of Work done by Employees	Declared Number of Employees	Declared Wages during Period of Insurance	Place of Employment
Engineers not otherwise classified - INU, work away from shop or yard upto 5 kms freight	2200	54,32,00,000	Various Cities in India

The Insurance under this policy is subject to Warranties & Clauses(as per forms attached).

Subject to adjustment in the terms of Condition 5. The estimated amount of wages/salaries & other earnings on which premium is based.

- Excess/Deductible - Rs 8,00,000/- per accident
- This policy covers 2200 Company Employees drawing salary @ of Rs. 12,000/- per month.
- The employees of Contractors & Sub Contractors and all other persons engaged on project site including all manufacturing units, godowns & other locations anywhere in India who are not specifically covered under any other workmen compensation policy are covered under this policy subject to total 2200 employees.
- Nature of Work - All workers are engaged in Engineering related works
- Warranted that Medical expenses are not covered
- Classification Code No - 157

Warranted that in case of dispatch of premium cheques, the Company shall not be liable under the policy and the policy shall be void ab initio (from inception).

In witness whereof the undersigned being authorised by and on behalf of the Company has/have herein to set his/their hands at CHENNAI on 28th Day of March 2019.

Entered by - SANJAY SINGH

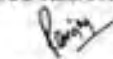
Approved by - SANJAY SINGH

Place - CHENNAI

Date - 27.06/2019

All the amounts mentioned in this policy are in Indian Rupees

For and on behalf of
SHRIRAM GENERAL INSURANCE COMPANY LTD



Authorised Signatory

ICIN No. - 33AABC5210R12A

Page 2 of 3

SOUTH WESTERN RAILWAY

Y/W.372/KM.326/600-326/700/WPL(2017-117)

Divisional office
Works Branch
Mysore
Date: 09.11.2018

To
Commissioner,
City Corporation Davangere
KUIDFC-KIUWMIP-PIU, No.1976/9
Shamanur Road,MCC "A" Block
Besides Ashraya Hospital,
Davangere, Karnataka -577704.

Dear Sir

Sub:- JRU – UBL Section :- Proposed water supply pipe line crossing under the Railway Track at KM 326/600-326/700 between Davangere – Amaravathi Colony Railway Stations.

Please find herewith enclosed a copy of agreement with blue print/plan for the above work executed by you, with this administration in respect of Railway land permitted in your favour at the above Railway Km duly signed by the Divisional Railway manager/(Works)/South Western Railway / Mysore.

Hereby permission is accorded for the above said work under the Railway track at the above Km, as per approved plan subject to the following conditions.

The work within the Railway land would be carried out as per the approved plan at your cost but under Railway supervision.

The proposed C.I. encasing pipe/cable should be laid 1.00m minimum below the bottom level of sleeper by pipe pushing (HDD Method) to be done by the party at their own cost under Railway supervision and Concrete pipes are not permitted and G.I./M.S. pipes only to be used.

The top surface of the land within Railway limit should be restored to the original condition after laying the pipe lines.

The annual way leave charges for the right of laying water pipe line crossing in the Railway land shall be paid as per rules in force.

Encl-Agt. copy with plan.

Yours Sincerely

P. K. Varma 9/11/18
Divisional Railway Manager (works)
South Western Railway/Mysore

C/- Sr.DFM/MYS for information Encl: Agt. Copy in Original and Plan.
C/- ADEN/DVG for information and necessary action please.
C/- SSE/PW/DVG for information and necessary action please.

KUIDFC-KIUW
PIU, Davangere
No. 3046
Date 16-08-19

SOUTH WESTERN RAILWAY

Y/W.372/KM.320/400-320/500/WPL(2017-119)

Divisional office
Works Branch
Mysore
Date: 09.11.2018

To
Commissioner

City Corporation Davangere
KUIDFC-KIUWMIP-PIU, No.1976/9
Shamanur Road, MCC "A" Block
Besides Ashraya Hospital,
Davangere, Karnataka -577704.

Dear Sir

Sub: JRU - UBL Section :- Proposed water supply pipe line crossing under the
Railway Track at KM 320/400-320/500 between Tholahunse - Davangere
Railway Stations.

Please find herewith enclosed a copy of agreement with blue print/plan for the above work
executed by you, with this administration in respect of Railway land permitted in your favour at the
above Railway Km duly signed by the Divisional Railway manager/(Works)/South Western Railway /
Mysore.

Hereby permission is accorded for the above said work under the Railway track at the above
Km, as per approved plan subject to the following conditions.

The work within the Railway land would be carried out as per the approved plan at your cost
but under Railway supervision.

The proposed C.I. encasing pipe/cable should be laid 1.00m minimum below the bottom level
of sleeper by pipe pushing (HDD Method) to be done by the party at their own cost under Railway
supervision and Concrete pipes are not permitted and G.I./M.S. pipes only to be used.

The top surface of the land within Railway limit should be restored to the original condition
after laying the pipe lines.

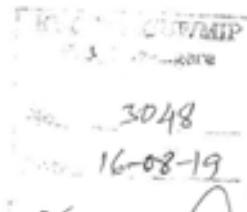
The annual way leave charges for the right of laying water pipe line crossing in the Railway
land shall be paid as per rules in force.

Encl:-Agt. copy with plan.

Yours Sincerely

P. K. Valmiki 11/11/18
Divisional Railway Manager (works)
South Western Railway/Mysore

C- Sr.DFM/MYS for information Encl: Agt. Copy in Original and Plan.
C/- ADEN/DVG for information and necessary action please.
C/- SSE/PW/DVG for information and necessary action please.



Letter from EE, KSHIP to EE - KUDRC regarding permission
Granted for Excavation of Road KSHIP Road from New
KSRTC Busstand to Anjaneya Will. Near DVG University.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
GOVT OF KARNATAKA

u-disc@ekshipshmg@gmail.com

ಕರ್ನಾಟಕ ಸಂವಿಧಾನದ ಪ್ರಕಾರ,
ಈ ಪಟ್ಟಣ, ಮೈಸೂರು ನಗರ,
ಇದು ಕರ್ನಾಟಕ ರಾಜ್ಯದ
ಒಂದು.

ಅವರಿಗೆ,
ಕಾರ್ನಾಟಕ ಅಭಿಮತರಹಿತ,
ಕೆಎಂಐಎಲ್-ಕೆಎಂಐಎಲ್-ಎಂಐಎಲ್-ಎಂಐಎಲ್,
ಮಾನ್ಯರಾದವರಿಗೆ,
ಮಾನ್ಯರಾದವರಿಗೆ.

ನಿಷ್ಕರ: ಕರ್ನಾಟಕ ರಾಜ್ಯ ಹೆದ್ದಾರಿ ಸಂಖ್ಯೆ 76 ದಾಖಲಾಗಿದೆ-ಚನ್ನಾಯಿ ರಸ್ತೆ ಬದಿಯಲ್ಲಿ ಕುಡಿಯುವ ನೀರಿನ ಪೈಪ್‌ಲೈನ್ ಅಳವಡಿಕೆಯ ಅನುಮತಿ ನೀಡುವ ಬಗ್ಗೆ.


◆◆◆◆◆

- 1) ಪೈಪರ್ಲೈನ್ ಸಾಮಗ್ರಿಯನ್ನು ರಸ್ತೆ ಬದಿಯ ಪರಂಪರೆ ಪೊರಗೆ COI ಅಂಚರದಲ್ಲಿ ಹಾಕಿಕೊಳ್ಳಬೇಡಿ.
- 2) ಪೈಪರ್ಲೈನ್‌ಗಳನ್ನು ಅಳವಡಿಸುವಾಗ ರಸ್ತೆಯ ಪಾದಿಯ ಭಾಗಗಳನ್ನು (ಡ್ರಾಬಂಟ್‌ಗಳ ರಸ್ತೆ, ಪೀಠಪ್ಪರ ಭಾಗ, RCC ಚರಂಡಿ ಇತ್ಯಾದಿ) ಹಾನಿಮಾಡದಂತೆ ಸಾಮಗ್ರಿಯನ್ನು ಮಾರುಗೊಳಿಸಬೇಡಿ.
- 3) ಈ ಅನುಮತಿಯು ಪೈಪರ್ಲೈನ್‌ಗಳನ್ನು ಅಳವಡಿಸಲು ಮಾತ್ರ ಯಾವುದೇ ಅನಿರತ ಹಾಗೂ ರಸ್ತೆಯ ಮಾರ್ಗಚ್ಛೇದನು ಒಪ್ಪಿಲ್ಲವಾದ್ದರಿಂದ.
- 4) ಸಾಮಗ್ರಿಯು ಸುರಕ್ಷಣೆ ಆಗದಿರುವ ಗುಂಡಿಯನ್ನು ಮುಚ್ಚಿ ಹಾಗೂ ಮೊದಲಿನ ತರಹವಾಗಿ ಮಾಡಿಕೊಡಲು ಸೂಚಿಸಲಾಗಿದೆ. ಇದು ಇದರ ಅಂಶವೆ ಅನಿರತಗಳ ವಿವರವಾಗಿಯಾಗುತ್ತದೆ.
- 5) ಅನಿರತ ದಿನಗಳಲ್ಲಿ ರಸ್ತೆ ಆಗರೀಕರಣ ಅಥವಾ ಬಾಡ್ಲೇಯೀಕರಣ ಸಲುವಾಗಿ ಅಗಾಗಲೇ ಇನ್ನು ಇದೇ ಮೊದಲಿನ ಅಳವಡಿಸಿದ ಪೈಪರ್ಲೈನ್‌ಗಳನ್ನು ಕೃಷಾಂತರಿಸಲು ಸೂಚಿಸಿ ನೀಡಲಾಗಿ, ಆ ಸೂಚಿಸಿ ನೀಡಿದ ದಿನದಿಂದ 30 ದಿನಗಳೊಳಗಾಗಿ ಕೊನೆಗೆ ಮಾರುಗೊಳ್ಳುವ ಮೇಲೆ ಕೃಷಿ ಇನ್ನು ಇದೇಯೇ ಕೃಷಿ ಮೇಲೆ ಮೇಲ್ಕಂಡ ಮೂಲಕ ಅನುಮತಿಸಿಕೊಡಲು ಸೂಚಿಸಲಾಗಿದೆ.
- 6) ಕೊನೆಗೆ ಮಾರುಗೊಳ್ಳುವ ಅಳವಡಿಸುವ ರಸ್ತೆ ಅಗರೀಕರಣ, ಅನಿರತ ಮೊದಲು ಆ ಕೃಷಿವಸ್ತಿ ಯಾವುದಾದರೂ ಮೂಲಕಾಂಕ್ಷೆ ಕೊಡುಗಳು, ಸಿರಿಗ ಪೈಪರ್ಲೈನ್‌ಗಳು, ಯಾವುದೇ ಪೈಪ್‌ಗಳು, ಇವುಗಳ ಒಳಿತಿ ವಿವರಿಸಿಕೊಡುವ, ಇವುಗಳು ಹಾನಿಮಾಡದಂತೆ ಸಾಮಗ್ರಿಯನ್ನು ಕೈಗೊಳ್ಳಬೇಡಿ.

- 7) ಕಾರುಗಾರಿ ಮುಗಿದ ನಂತರ ಮುಂದಿನ ದಿನಗಳಲ್ಲಿ ದುರಸ್ತಿ ಕಾರ್ಯಗಳನ್ನು ಕೈಗೊಳ್ಳುವ ಮೊದಲು ಕೆಲವು/ಕೆಲವು ದಿನಗಳ ಅವಧಿಯನ್ನು ಮುಂಚಿತದಿಂದಲೇ ಅನುಮತಿ ಪಡೆಯಬೇಕು.
- 8) ಕಾರುಗಾರಿ ಕೈಗೊಳ್ಳುವ ಮೊದಲಿನಿಂದಲೂ ಎಲ್ಲಾ ವಿಷಯಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಕೆಲವು ಮಾರ್ಗದರ್ಶಿ ನೀಡಲಾಗಿದೆ.
- 9) ಕೆಲವು/ಕೆಲವು ದಿನಗಳ ಅವಧಿಯಲ್ಲಿ ಯಾವುದೇ ಕಾರಣದಿಂದಾಗಿ ಕಾರುಗಾರಿ ಪರಿಶೀಲಿಸುವ ಅಧಿಕಾರವಿರುತ್ತದೆ.
- 10) ಕೆಲವು/ಕೆಲವು ದಿನಗಳ ಅವಧಿಯಲ್ಲಿ ಯಾವುದೇ ಕಾರಣದಿಂದಾಗಿ ಇದ್ದರೇ ಕಾರುಗಾರಿಯ ಅನುಮತಿ ಕಡ್ಡಾಯವಾಗಿರುವ ಅಧಿಕಾರವನ್ನು ಪಡೆಯುವುದು.
- 11) ಕಾರುಗಾರಿಯನ್ನು ಈ ಅವಧಿ ಪಕ್ಕದ 30 ದಿನಗಳೊಳಗಾಗಿ ಪೂರ್ಣಗೊಳಿಸುವುದು.

ಮುಂದುವರಿಯುತ್ತಾ, ಕಾರುಗಾರಿ ಈ ಮೇಲ್ಕಂಡ ಪದ್ಧತಿಗಳನ್ನು ಒಪ್ಪಿಕೊಂಡು ಮತ್ತು ಕಾರುಗಾರಿಯಾಗಿ ಅವುಗಳನ್ನು ಅನುಸರಿಸಿಕೊಂಡು ಕಾರುಗಾರಿ ನಿಗದಿತ ಪದ್ಧತಿಗಳನ್ನು ಅಳವಡಿಸುವ ಕಾರುಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳುವ ಅನುಮತಿಯನ್ನು ನೀಡಲಾಗಿರುತ್ತದೆ.

ಇದೇ ದಿನದಿಂದ ಪಕ್ಕದ ಪುಟ

ಮು. ನಿರ್ದೇಶಕ

 ಕಾರುಗಾರಿ ಅಧಿಕಾರಿ,
 ಕೆಲವು ದಿನಗಳ, ಕೆಲವು ದಿನಗಳ.

Davangere- Water Supply Distribution System (Package no.: 01WS05) –Permission from the National Highway Department –in Progress

ದಾವಣಗೆರೆ ನಗರ ಮಹಾನಗರ ಸೌಕರ್ಯ ಅಭಿವೃದ್ಧಿ ಮಂಡಳಿ
ಪ್ರಾಜೆಕ್ಟ್ ನಿರ್ದೇಶಕರ ಕಛೇರಿ
ಮಹಾನಗರ ಮಂತ್ರಿ ಕಛೇರಿ ಸಮೀಪ ರಸ್ತೆ, ಎಂ.ಐ.ಟಿ. ಸಮೀಪ
ಚಿತ್ರದುರ್ಗ- ದೆ.ಎಂ.ಎಂ.ಎಸ್.ಎಂ.ಎಸ್.ಎಂ.ಎಸ್.ಎಂ.ಎಸ್.ಎಂ.ಎಸ್.ಎಂ.ಎಸ್.
ದಾವಣಗೆರೆ.
ಕಾರ್ಯಾಲಯ, ಕಾರ್ಯಾಲಯ ರಸ್ತೆ, ಎಂ.ಐ.ಟಿ. - 'ಎ' ಬ್ಲಾಕ್,
ಅಭಿವೃದ್ಧಿ ಮಂಡಳಿ, ದಾವಣಗೆರೆ-577004.

Phone: 08192-224477, 289401, E-mail: rpmkuiwmp.dvg@gmail.com

Karnataka Urban Infrastructure
Development & Finance Corpn. Ltd.,
Karnataka Integrated Urban Water
Management and Investment Programme,
KUIDFC- KIUWMIP- RPMU,
No. 1976/9, Shamnur Road, MCC 'A' Block,
Beside Ashraya Hospital, Davangere-577004.

No: KUIDFC-KIUWMIP-RPMU/tech/2018-19/2239

Date: 08/02/2019

To:
The Project Director,
National Highways Authority of India,
Project Implementation Unit,
Near JMIT, NH-4,
Chitradurga - 577502.

Sir,

- Sub: Construction of Distribution Network-Operator assisted in Davangere including 8 Years O & M of 24 x 7 Davangere Water Supply System, Package No. 01WS05: Permission for crossing of water Supply Pipeline at National Highway in various chainages of Davangere City Corporation Area reg.,
- Ref: 1) Our Office Letter No: KUIDFC-KIUWMIP-RPMU/tech/2018-19/1034 Date: 18/08/2017.
2) No: KUIDFC-KIUWMIP-RPMU/tech/2018-19/989 Date: 29/06/2018
3) Discussions held on 06-02-2019 at NHAI Office Chitradurga.

With reference to the execution of 24x7 Water Supply Distribution Systems to Davangere City is under progress which is a project under the financial assistance of Asian Development Bank. In this regard our pipe line is being laid on the shoulders of the national Highway-4 and a few pipes are crossing at various locations.

In this connections, our office EE, KUIDFC and contractors team (M/s SUEZ Projects Pvt Ltd) were visited your office on 06-02-2019 to discuss about permission status.

In this regard, we are resubmitting attested copies of letters send to your office. Hence, it is once again requested to accord the permissions to lay the pipelines in various chainages as shown in above letters.

Thanking you,

Encl:


1. Photocopies of letters.

Your faithfully

Executive Engineer,
KUIDFC- KIUWMIP- RPMU,
Davangere

Burai 8/2/2019
NATIONAL HIGHWAYS AUTHORITY OF INDIA, PM
Near J.M.I.T., NH-4 (Km 201)
CHITRADURGA - 577 502.
(Karnataka State)

Harihara- Water Supply Distribution System (Package no.: 01WS04) –Permission from the State PWD

 ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಲೋಕೋಪಯೋಗಿ, ಬಂದರು ಮತ್ತು ಒಳನಾಡು ಜಲಸಾರಿಗೆ ಇಲಾಖೆ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್‌ರವರ ಕಾರ್ಯಾಲಯ, ದಾವಣಗೆರೆ.	ದೂರವಾಣಿ : 08192 234951, 231530 ಫ್ಯಾಕ್ಸ್ : 08192 234951 ಇ-ಮೇಲ್ : eedvg@kpwd.gov.in
ವಿಭಾಗ ಕಚೇರಿ, ಪಿ.ಬಿ. ರಸ್ತೆ, ದಾವಣಗೆರೆ-577 002.	

ಸಂ/ಕಾರ್ಯಾಲಯ/ಲೋಕೋಪಯೋಗಿ-2/ರಸ್ತೆ ಕತ್ತರಿಸುವುದು/2018-19 **323** ದಿನಾಂಕ : 10/5/2019

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್,
 ಕೆಯುಎಡಿಎಫ್‌ಸಿ-ಕೆಐಯುಡಬ್ಲ್ಯುಎಂಐಪಿ-ಪಿಐಎಂಯು
 ಹರಿಹರ - ಇವರಿಗೆ

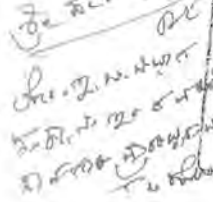
ಮಾನ್ಯರೇ,

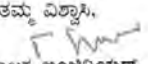
ವಿಷಯ : ಹರಿಹರ ತಾಲ್ಲೂಕು ಹೊಸಪೇಟೆ-ಶಿವಮೊಗ್ಗ ರಸ್ತೆ (ರಾಹ್-25) ಹಾದು ಹೋಗುವ ಹಳೇ ಪೂನಾ- ಬೆಂಗಳೂರು ಹೆದ್ದಾರಿಯಲ್ಲಿ ನೀರು ಸರಬರಾಜಿಗಾಗಿ ರಸ್ತೆ ಕತ್ತರಿಸಿ ಪೈಪ್‌ಲೈನ್ ಅನುಮತಿ ನೀಡುವ ಬಗ್ಗೆ.

- ಉಲ್ಲೇಖ : 1) ತಮ್ಮ ಕಚೇರಿ ಪತ್ರ ಸಂ 336/2017-18 ದಿನಾಂಕ : 19.02.2018.
 2) ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್, ಲೋಕೋಪಯೋಗಿ, ಹರಿಹರ ಇವರ ಪತ್ರ 550/2018-19 ದಿನಾಂಕ 31.12.2018.
 3) ಈ ಕಚೇರಿ ಪತ್ರ ಸಂ : 3361 ದಿನಾಂಕ : 04.02.2019.
 4) ತಮ್ಮ ಕಚೇರಿ ಪತ್ರ ಸಂ : ಸಸಹ/ಕೆಐಯುಡಬ್ಲ್ಯುಎಂಐಪಿ/ಬಿಡಬ್ಲ್ಯುಎಸ್/2019-20/32 ದಿನಾಂಕ : 04.05.2019.

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಉಲ್ಲೇಖಿತ (1)ರ ಪತ್ರದಲ್ಲಿ ತಾವು ಹರಿಹರ ತಾಲ್ಲೂಕು ಹೊಸಪೇಟೆ-ಶಿವಮೊಗ್ಗ ರಸ್ತೆ (ರಾಹ್-25) ಹಾದು ಹೋಗುವ ಹಳೇ ಪೂನಾ- ಬೆಂಗಳೂರು ಹೆದ್ದಾರಿಯಲ್ಲಿ ನೀರು ಸರಬರಾಜಿಗಾಗಿ ರಸ್ತೆ ಕತ್ತರಿಸಿ ಪೈಪ್‌ಲೈನ್ ಅಳವಡಿಸಲು ಅನುಮತಿ ಕೋರಿದ್ದೀರಿ, ಅದರಂತೆ ರಸ್ತೆ ಕತ್ತರಿಸಲು ರೋಡ್ ಕಟ್ಟಿಂಗ್ ಚಾರ್ಜ್ ಮೊತ್ತವನ್ನು ಪಾವತಿಸಲು ಉಲ್ಲೇಖ (3)ರಲ್ಲಿ ತಿಳಿಸಲಾಗಿತ್ತು. ಉಲ್ಲೇಖ (4)ರಲ್ಲಿ ಸದರಿ ರೋಡ್ ಕಟ್ಟಿಂಗ್ ಚಾರ್ಜ್ ಮೊತ್ತ ರೂ.12,37,000/- ಗಳನ್ನು ಮತ್ತು ಭದ್ರತಾ ಠೇವಣಿ ಮೊತ್ತ ರೂ. 1,23,700/-ಗಳನ್ನು ರಸೀದಿ ಸಂಖ್ಯೆ : 2682676 ದಿನಾಂಕ : 04.05.2019ರಲ್ಲಿ ಈ ಕಚೇರಿಗೆ ಪಾವತಿಸಿರುತ್ತೀರಿ. ಆದ್ದರಿಂದ ರಸ್ತೆಯನ್ನು ಕತ್ತರಿಸಲು ಈ ಕೆಳಕಂಡ ನಿಬಂಧನೆಗಳಿಗೆ ಒಳಪಟ್ಟು ಅನುಮತಿ ನೀಡಲಾಗಿದೆ.

1. ಪೈಪ್‌ಲೈನ್‌ಅನ್ನು ರಸ್ತೆಯ ಮೇಲ್ಮೈಯಿಂದ ಕನಿಷ್ಠ 1.65 ಮೀ ಆಳದಲ್ಲಿ ಅಳವಡಿಸಬೇಕು.
2. ಕೆಲಸ ಪ್ರಾರಂಭಿಸಿದ 30 ದಿನಗಳೊಳಗೆ ಪೈಪ್‌ಲೈನ್‌ಅನ್ನು ಅಳವಡಿಸಿ ರಸ್ತೆಯನ್ನು ಮೊದಲಿದ್ದ ಸ್ಥಿತಿಗೆ ತರಲು ವಿಳಂಬವಾದಲ್ಲಿ ನಿಯಮದಂತೆ ಮುಂದಿನ ಕ್ರಮ ಕೈಗೊಳ್ಳಲಾಗುವುದು.
3. ಕಾಮಗಾರಿ ಕೈಗೊಳ್ಳುವಾಗ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಲೋಕೋಪಯೋಗಿ, ಹರಿಹರ ಇವರನ್ನು ಸಂಪರ್ಕಿಸಿ ಅವರು ನೀಡುವ ಸಲಹೆ ಸೂಚನೆಗಳನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ ಪಾಲಿಸತಕ್ಕದ್ದು.
4. ವಾಸ್ತವ ಸ್ಥಿತಿಗೆ ಅನುಗುಣವಾಗಿ ಹೆಚ್ಚುವರಿ ಶುಲ್ಕ ಪಾವತಿಸಲು ಇಲಾಖೆಯು ಸೂಚಿಸಿದಲ್ಲಿ ಅದನ್ನು ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರವರ ಹೆಸರಿಗೆ ಡಿ.ಡಿ ಮೂಲಕ ಪಾವತಿಸತಕ್ಕದ್ದು.


ತಮ್ಮ ವಿಶ್ವಾಸಿ,

 ಕಾರ್ಯಪಾಲಕ ಇಂಜಿನಿಯರ್,
 ಲೋಕೋಪಯೋಗಿ, ಬಂದರು ಮತ್ತು ಒಳನಾಡು,
 ಜಲಸಾರಿಗೆ ಇಲಾಖೆ ವಿಭಾಗ, ದಾವಣಗೆರೆ

Pollution Under Control Certificates (PUCs)

Davanagere- Water Supply Distribution System (Package no.: 01WS05)

Transport Department, Karnataka

Page 1 of 1

COMPUTERISED POLLUTION UNDER CHECK CENTERS

(Rule 231(B)(8) of KMV Rules 1989)

Licence No : 417/2001-02

Center Name : Sri Venkateshwara Vehicles Emission Testing Centre

Center Address : Vijayanagar Layout, Opp. RTO Office, Kondaji Road, Davanagere

Customer Name : UDAY SHEVAKUMAR

Customer Mobile : 9844913096

Pucc No : D248KA103625

Vehicle No : KA17D4107

Year of Regn : 28-08-2018

Type of Vehicle : OTHERS

Make : Bharat Benz


Model : 2523

Test Date : 13-11-2019

Time : 12:39

Valid Up To : 12-05-2020

Photo of Vehicle



KARNATAKA

Certificate is not acceptable without Hologram Sticker & Get Renewed the Certificate within the Expiry Date.

Certificate price: ₹ 125

Flushing Cycle					
Avg	RPM Min	RPM Max	Temp		
0596		2910	075		

Srno	RPM Min	RPM Max	Km	HSU%	Temp
1	0600	2940	0.09	03.80	075
2	0610	2890	0.00	00.00	075
3	0610	2910	0.13	05.44	075
Mean			0.07	02.97	

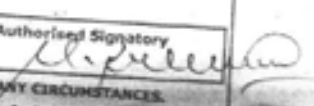
Pres Limit for Diesel vehicle	K(Light Absorption Co-efficient)	Harridge Units %
Free Acceleration	2.45	65

This Vehicle meets Emission Standards Prescribed by Rule 115(2) of CMVR 1989. Certificate is All India valid, Six Months for Bharat Stage III or below and one year for Bharat Stage IV vehicles.

SRI VENKATESWARA
MISSION TESTING CENTRE

Seal of Testing Station

Testing Station Code: D248

Authorized Signatory: 

KINDLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.

"Penalty for Air Pollution" Not exceeding for Rs. 1000 for the 1st offence and Not exceeding for Rs. 2000 for the 2nd & subsequent offence.

Print

http://202 138 106 2714

COMPUTERISED POLLUTION UNDER CHECK CENTERS (Rule 231(B)(8) of KMV Rules 1989)

Licence No : 1929/2018-19

Photo of Vehicle

Center Name : M.B. Emission Testing Centre
 Center Address : D.No.1947/4A, W.No.5, Near BSNL Office, P.B. Road, Davangere-577006

Customer Name : RACHANAGOUDA GOUDAR

Customer Mobile : 9380609311

Pucc No : D1441KA101097

Vehicle No : KA29N4784

Year of Regn : 11-09-2018

Type of Vehicle : LOADER

Make : JCB

Model : 3DX

Test Date : 11-11-2019

Time : 10:49

Valid UpTo : 10-05-2020

**Test Data**

Flushing Cycle			
Avg	RPM Min	RPM Max	Temp
0770	2086	075	

Srno	RPM Min	RPM Max	Km	HSU%	Temp
1	0810	1970	0.00	00.00	075
2	0720	2030	0.00	00.00	075
3	0720	1950	0.18	07.45	075
Mean			0.06	02.55	

Certificate is not acceptable without Hologram Sticker & Get Renewed the Certificate within the Expiry Date.

Certificate price: ₹ 125

Pres Limit for Diesel vehicle	K(Light Absorption Co-efficient)	Harridge Units %
Free Acceleration	2.45	65

This Vehicle meets Emission Standards Prescribed by Rule 115(2) of CMVR 1989. Certificate is All India valid, Six Months for Bharat Stage III or below and one year for Bharat Stage IV vehicles.

M.B. (ETC) Emission Testing Centre
 # 1947/4A, Near BSNL Office,
 P.B. Road, Davangere-5.

Testing Station Code
 D1441

Authorized Signatory

KINDLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.

"Penalty for Air Pollution" Not exceeding for Rs. 1000 for the 1st offence and Not exceeding for Rs. 2000 for the 2nd & subsequent offence.

Print


Harihara- Water Supply Distribution System (Package no.: 01WS04)

Transport Department, Karnataka Page 1 of 1


COMPUTERISED POLLUTION UNDER CHECK CENTERS (Rule 231(B)(8) of KMV Rules 1989)
This Vehicle meets Emission Standards Prescribed by Rule 115(2) of CMVR, 1989. Certificate is All India valid, Six Months for Bharat Stage III or below and one year for Bharat Stage IV vehicles.

Licence No : 1635/2016-17
Center Name : Sri Nanda Service Station & ETC
Center Address : Indian Oil Dealers, P.B Road, Harihara-577601
Customer Name : VEOLIA INDIA PVT LTD
Customer Mobile : 8971258047
Pucc No : P1147KA105775
Vehicle No : KA17Z3246
Year of Regn : 02-12-2017
Type of Vehicle : 4 Wheeler
Type of Engine : 4 STROKE
Make : Maruti Udyog
Model : OMNI
Fuel : PETROL
Catalyst : Catalyst
Test Date : 12-11-2019 13:20
Valid Date : 11-05-2020


Photo of Vehicle

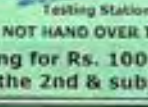


	Petrol Test		Gas Test		
	Pres STD	Measured level	Pres STD	Measured level	Unit
CO	3.0	01.309	--	--	%
HC	1500	01486	--	--	PPM
CO2	--	12.74	--	--	%Vol
O2	--	90.51	--	--	PPM

Holo 


Certificate price: ₹ 90

Certificate is not acceptable without Hologram Sticker.  The Certificate within the Expiry Date.

Seal of Testing Station  Testing Station Code : (P1147) Authorised Signatory

KINDLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.

" Penalty for Air Pollution" Not exceeding for Rs. 1000 for the 1st offence and Not exceeding for Rs. 2000 for the 2nd & subsequent offence.

 **Sri Nanda Service Station**
MISSION CENTER
HARIHARA-577601.

[Print](#)

http://202.138.105.37/ptest_web.aspx?Spuc=P1147KA105775&CID=Sys001037&logst=... 11/12/2019

COMPUTERISED POLLUTION UNDER CHECK CENTERS

(Rule 231(B)(8) of KMV Rules 1989)

Licence No : 1929/2015-19

Center Name : H.B. Emission Testing Centre

Center Address : D.No.1947/4A, W.No.5, Near BSNL Office, P.B. Road, Davangere-577006

Customer Name : VEOLIA INDIA PVT LTD

Customer Mobile : 9986508128

Pucc No : D1441KA101153

Vehicle No : KA17Z3248

Year of Regn : 20-12-2017

Type of Vehicle : CAR

Make : Tata Motors

Model : INDIKA e V2

Test Date : 20-11-2019

Time : 13:16

Valid Up To : 18-05-2020

Photo of Vehicle



Certificate is not acceptable without Hologram Sticker & Get
Renewed the Certificate within the Expiry Date.

Certificate price: ₹ 125

Test Data

Pushing Cycle			
Avg.	RPM Min	RPM Max	Temp
0800	1970	075	

Sl.No	RPM Min	RPM Max	CO	HC/CO	Temp
1	0800	2080	0.00	00.00	075
2	0800	1990	0.10	04.21	075
3	0800	2100	0.02	00.86	075
Mean			0.04	01.71	

Free Limit for Diesel vehicle	K(Light Absorption Co-efficient)	Harridge Units %
Free Acceleration	2.45	65

This Vehicle meets Emission Standards Prescribed by Rule 115(2) of CMVR 1989. Certificate is All India valid, Six Months for Bharat Stage III or below and one year for Bharat Stage IV vehicles.

H.B. (ETC) Emission Testing Centre
1947/4A, Near BSNL Office,
P.B. Road, Davangere-5.

Testing Station Code
D1441

Authorized Signatory

KINDLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.

"Penalty for Air Pollution" Not exceeding for Rs. 1000 for the 1st offence and Not exceeding for Rs. 2000 for the 2nd & subsequent offence.

Print

Byadgi- Water Supply Distribution System (Package no.: 01WS03)

COMPUTERISED POLLUTION UNDER CHECK CENTERS

(Rule 231(B)(8) of KMV Rules 1989)

ence No : 1175/2011-12

Center Name : Gem Emission Testing Centre

Center Address : Kubera Complex, Beside VRL Office, Siddeshwaranagar, PB Road, Ranibennur

Customer Name : S

Customer Mobile : 9600156809

Pucc No : D712101102

hicle No : KA19P5809

Year of Regn : 08-02-2006

Vehicle : OTHERS

Make : JCB

Model : 3DS

st Date : 26-12-2019

Time : 18:00

id UpTo : 25-06-2020

Photo of Vehicle



Test Data

Flushing Cycle			
ig	RPM Min	RPM Max	Temp
	0730	1830	88

Srno	RPM Min	RPM Max	Km	HSU%	Temp
1	0730	1850	0.01	5.1	0088
2	0730	2020	0.01	6.8	0088
3	0730	1770	0.01	5.1	0088
4	0730	1940	0.02	5.1	0088
Mean			0.01	5.52	

Certificate is not acceptable without Hologram Sticker & C
Renewed the Certificate within the Expiry Date

Certificate price: ₹ 125

Pres Limit for Diesel vehicle	K(Light Absorption Co-efficient)	Harridge Units %
Free Acceleration	2.45	65

This Vehicle meets Emission Standards Prescribed by Rule 115(2) of CMVR 1989. Certificate is All India valid, Six Months for Bharat Stage III or below and one year for Bharat Stage IV vehicles.

Seal of Testing Station

Testing Station Code

Authorised Signatory

D712

KINDLY DESTROY THE OLD CERTIFICATE & DO NOT HAND OVER TO ETC IN ANY CIRCUMSTANCES.

Penalty for Air Pollution" Not exceeding for Rs. 1000 for the 1st offence and N
exceeding for Rs. 2000 for the 2nd & subsequent offence.

Sample Site Specific Environment Management Plan

SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN

**PROJECT: KARNATAKA INTEGRATED URBAN WATER
MANAGEMENT INVESTMENT PROGRAM**

PROGRAM: PACKAGE NO: 01WS03 24X7 WATER SUPPLY BYADGI

EMPLOYER: TOWN MUNICIPAL COUNCIL (TMC) BYADGI-581106

CONTRACTOR: SHRIRAM EPC LTD.

SHRIRAM EPC LTD.

Construction phase Site Specific Environmental Management Plan

Field/Issues	Anticipated Impact	Mitigation Measures	Remarks
Climate	The nature and intensity of rainfall events in an area, has implications for storm water management. Smoke from burning activities could be wider spread on windy days especially when dust could be blown off site.	Seasonal climatic variations during scheduling of construction activities in the area will be followed.	HSE work permit system of the company followed.
Air Quality	Sensitive receptors (e.g. hospitals, schools, churches) may be affected temporarily by increased traffic and related impacts during the construction phase (from the proposed detour). Fugitive dust can also impact on roadside air quality during construction. Exhaust fumes from construction machinery, and potential smoke from cooking fires. Burning of waste and cleared vegetation Odours from use of toilet 'facilities' other than provided facilities.	Guidelines that deal with the control of air pollution and dusts as per Environmental Management Plan (EMP) have been followed Compliance with the Air Act. has been submitted. Compliance with emission standards have been conducted and report submitted to PMCSC Air quality monitoring report for base line environment and during construction period is already submitted to PMCSC. Which will be continued during entire construction period Covering or damp down sand/ earth stockpiled at site will be maintained as per site condition Materials carrying vehicle suitably cover. Covering of materials carrying vehicles-reducing dust hazard Construction equipment and vehicles will be maintained regularly. Pollution Under Control Certificates have been collected and submitted to PMCSC for the vehicles presently engaged in project activity Open fires will be fully avoided at working sites Maintaining toilet in a clean state.	Air quality Monitoring data has been included in Environmental Monitoring Report
Geology and soil	Strong water flows into open excavations below the water table will occur, causing micro-tunnel collapse. Layers of mixed fill cover natural ground surface in many places. Contamination from spillage of petroleum products, spent engine oil and oil leaks from construction vehicle maintenance taking place on site.	That drainage system shall be check regularly to control runoff from the open areas in line with topographical features of the site Rehabilitation at all sites during construction including stockpile area, temporary access and hauling routes, as soon as possible after the disturbance has ceased. Company to exercise strict care in the disposal of construction waste, with proof of disposal at an approved site provided after offloading each waste load and this logged/registered. Solid waste will be managed according to the following preference hierarchy: reuse, recycling and disposal to designated areas. If oil spills occur, contaminated soil will be dispose at a disposal site.	

Field/Issues	Anticipated Impact	Mitigation Measures	Remarks
		Stockpile subsoil and overburden in all construction and lay down areas.	
Drainage and hydrology	The proposed development is situated within an existing built up area. Due to the nature and locality of the subproject there is unlikely any significant impacts on water resources within the immediate area.	The site surface has been engineered and shaped in such a way that rapid and efficient evacuation of runoff is achieved. Pipe line is at a depth of 1.5m to 6.0m from ground level as indicated in tender. No major ground disturbance has been observed till now Waste management practices will be maintained Transport, storage, handling and disposal of hazardous substances will be done as per prevailing laws and approval of concerned authority	
Biodiversity Fauna and Flora	The proposed development is situated within an existing built up area. No areas of ecological diversity occur within the subproject location. Due to the nature and locality of the subproject there is unlikely to any significant impacts on biodiversity within the area The pipe laying for the transmission mains may however affect existing roadside trees.	Permission will be obtained from the Divisional Forest Office for the cutting/ felling of trees if required Landscaping will be undertaken with locally indigenous species and low maintenance requirements.	
Land Uses	Due to the location and nature of the subproject, there will be interference with access Existing public transport facilities and operations will be affected by the road closure and detours. Shops and establishments are located along the transmission mains alignment therefore will need to be relocated during construction. This may impact on livelihoods. There will be disruptions to health services, education services, local businesses, transport services, pedestrian movements, due to traffic and construction related noise, visual, and air pollution.	Project executing agency and consultant have consulted with various organizations, departments, etc within the area and will be continued during the construction phase. Caution board has been display at all site location to aware people Walkways and metal sheets provided if required to maintain access across for people and vehicles. Workforce will be increased in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools. Businesses and institutions consulted regarding operating hours and factoring this in work schedules. Sign boards provided for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.	
Infrastructure and Services	There is likely to have temporary disruption of infrastructure and services during the pipe laying of the transmission mains. There are a number of existing infrastructure and services (roads, railway lines, telecommunication lines, power lines and	Utility shifting will be done by utility agency prior to commencing pipe laying at new location. Keep construction-related disturbances to a minimum. Affected service providers will be consulted regarding impacts on access to infrastructure and services and alternatives. Affected communities or businesses will be consulted prior to	

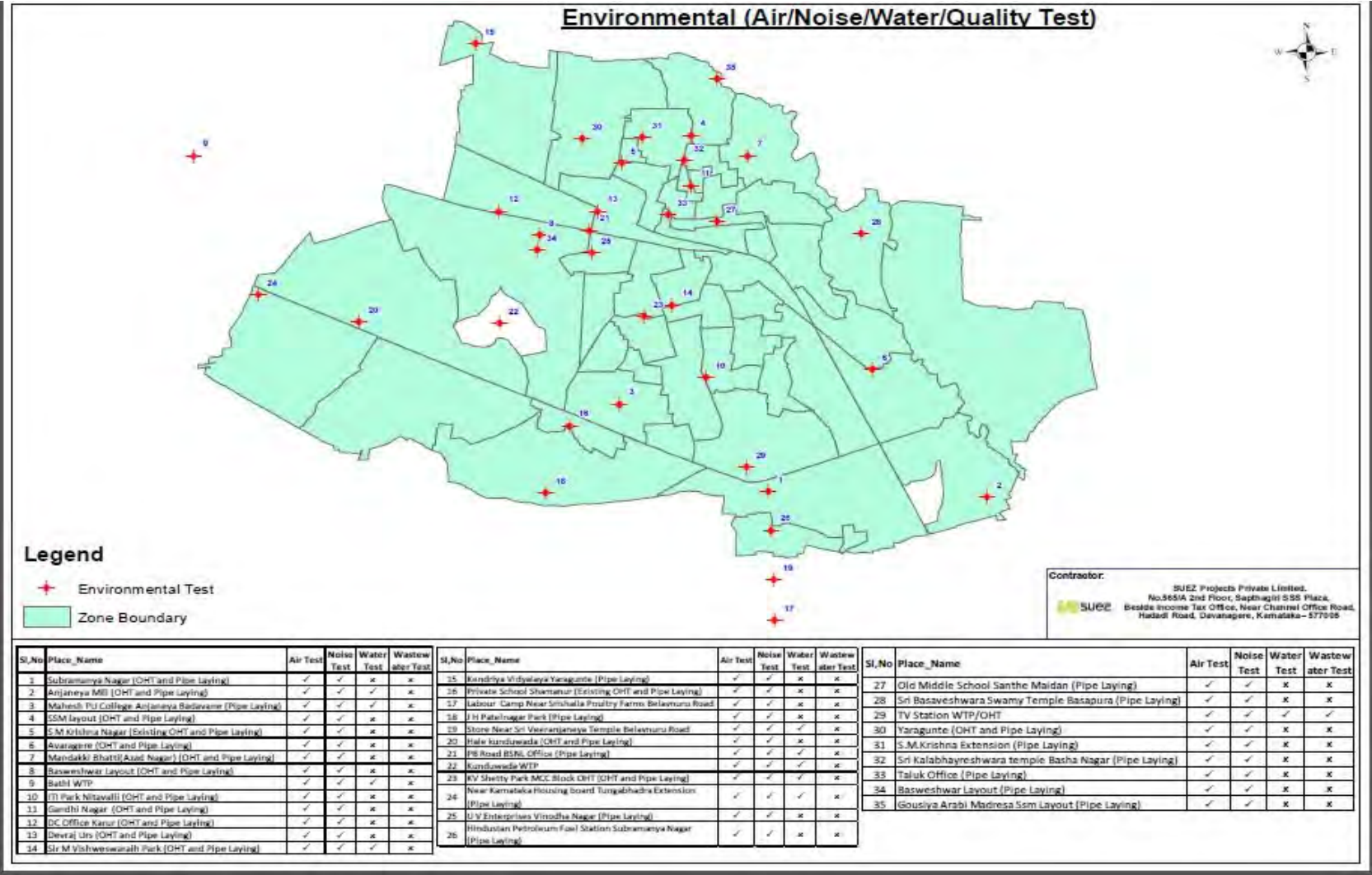
Field/Issues	Anticipated Impact	Mitigation Measures	Remarks
	various pipelines within the vicinity of the subproject.	foreseeable disruptions, for example notifying residents of a temporary severance of water supply. Executing agency and consultant have consulted with various organizations, departments, to provide access points for infrastructures and services. Regular monitoring and resolving the complaints by the public will be done by company	
Traffic	Increased volume of construction vehicles on the roads may lead to increased wear and tear of roads in the vicinity of the subproject site. Road safety concerns due to slow moving construction vehicles. Traffic flow within the vicinity will be affected. The temporary road closure will result in a decrease in overall network performance in terms of queuing delay, travel times/speeds. The road closure will impact on a public transport operations and routing. On street parking and loading bays will be affected by the proposed road closure. Pedestrian movements will be affected by the road closure.	Traffic Management Plan is prepared. TMP ensured safety of all the road-users along the work zone and to address: (i) protection of work crews from hazards associated with moving traffic; (ii) mitigation of the adverse impact to the road capacity and delays to the road-users; (iii) maintenance of access to adjoining properties; and (iv) issues that may delay the subproject works. Schedule transport and hauling activities will be plan during non-peak hours Site will be free from all unnecessary obstructions. Affected sensitive receptors if any will be notified by providing sign boards informing nature and duration of construction works Privately-owned public transport operators will be negotiated regarding the affected public transport facilities and routing. Business owners and social service operations will be negotiated regarding the loss of parking and loading bays. Clear roads signs has been arranged and to be maintained for the full length of the construction period. City Traffic Police will be available on site (as per requirement). All working sites barricaded Communicate will be done for road closure/diversion together with the proposed detour via advertising, pamphlets, road signage, etc. The implementation of the road detour is also dependent on advance road signage indicating the road detour and alternative routes. Construction area clearly defined Deliveries during peak traffic hours will be not allowed	Before starting of any particular project site on the road TMP needs to be approved from KUIDFC/ PMCSC and Traffic Police Dept.
Health and Safety	Danger of construction related injuries. Open fires in construction camp can result in accidents Safety of workers and general public must be ensured. Poor waste management practices and unhygienic conditions at temporary ablution	Implement good housekeeping practices at the site office, working area. Strictly implemented health and safety measures and audit on a regular basis. Construction site – particularly excavated area already barricaded . Warning signs has been proved at hazardous working areas.	Company's health and safety guidelines will be followed

Field/Issues	Anticipated Impact	Mitigation Measures	Remarks
	<p>facilities can breed diseases.</p> <p>Standing water due to inadequate storm water drainage systems, inadequate waste management practices, pose a health hazard to providing breeding grounds for disease vectors such as mosquitoes, flies and snails.</p> <p>The use of hazardous chemicals in the micro-tunneling and restoration of roads can pose potential environmental, health and safety risks.</p> <p>Road safety may be affected during construction, especially when traffic is detoured.</p>	<p>Working area clearly demarcated, barricaded to protect pedestrians from open areas like trial trench</p> <p>Thoroughly trained workers assigned to dangerous equipment.</p> <p>Waste management practices will be well undertaken</p> <p>Speed and movement of construction vehicles restricted</p> <p>Personal Protective Equipment are provided to all workers</p> <p>Visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas have been ensured</p> <p>First Aid system available at working sites</p> <p>Medical insurance provided to workers</p> <p>Drinking water arranged at working sites</p> <p>Mark and provide sign boards for hazardous areas Signage has been in well known to, and easily understood by workers, visitors, and the general public as appropriate.</p> <p>Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.</p>	
Noise and Vibrations	<p>Sensitive receptors (hospitals, schools, religious places) may be affected temporarily by increased traffic and related impacts</p> <p>Use of heavy vehicles and equipment may generate high levels of noise.</p> <p>Vibrations resulting from bulk earthworks, and compaction may create significant disturbances to nearby people and businesses.</p> <p>Disturbance from afterhours work.</p>	<p>Construction activities to be restricted at reasonable working hours near any sensitive receptors.</p> <p>Adjacent landowners will be informed about noisy activities</p> <p>Ensured that machinery in a good state of maintenance.</p> <p>Maintenance of silencers to all machinery is ensured</p> <p>Base line and during construction noise level monitoring has been conducted near project sites</p>	Noise level Monitoring have been done
Aesthetics, Landscape Character, and Sense of Place	<p>The presence of heavy duty vehicles and equipment, temporary structures at site office, stockpiles, may result in impacts on aesthetics and landscape character</p>	<p>Storage areas fenced properly.</p> <p>Solid waste will be manage according to the following preference hierarchy: reuse, recycling and disposal to designated areas</p> <p>Removal of all wreckage, rubbish from the sites done at earliest</p> <p>Waste dispose at suitable location after taken permission from PMCSC</p> <p>Except few cases mature trees on and around the site remain untouched</p> <p>Unwanted material and litter will be remove at certain intervals</p>	Excavated soils are utilized for filling purpose.
Construction camps	Affect local environment – soil, air, noise and impact on vegetation	Toilet, drinking water facility arranged	
Workers Conduct	Construction workers on site disrupting	Ensured strict control of laborers	Company policy followed

Field/Issues	Anticipated Impact	Mitigation Measures	Remarks
	adjacent land uses by creating noise, generating litter, and possible loitering.	Working hours fixed as per rules Littering at project sites is being avoided Overnight accommodation will be provided as per requirement.	
Employment Generation	The subproject will provide employment opportunities for local people during construction. Expectations regarding new employment will be high especially among the unemployed individuals in the area. Labor gathering at the site for work can be a safety and security issue, and must be avoided. The training of unskilled or previously unemployed persons will add to the skills base of the area.	Local Workers/laborers are mostly engaged at site Construction materials will be procured from local market	
Archaeological and Cultural Characteristics	The proposed development will not require demolition of ASI- or state-protected monuments and buildings	There is no Heritage or archaeological protected sites. Construction staff members would be aware of the likelihood of heritage resources being unearthed and of the scientific importance of such discoveries.	
Social Impacts	Impact on local social environment	Restrict activities and movement of staff to designated construction areas.	
Security and Safety	Affect project activity and impact on workforce	Lighting on site is provided maximum security and to enable easier policing of the site, without creating a visual nuisance to local residents or businesses. Material stockpiles or stacks, such as, pipes be stable and well secured to avoid collapse and possible injury to site workers / local residents. Flammable materials stored as far as possible from adjacent residents / businesses.	

Google Map showing sampling stations

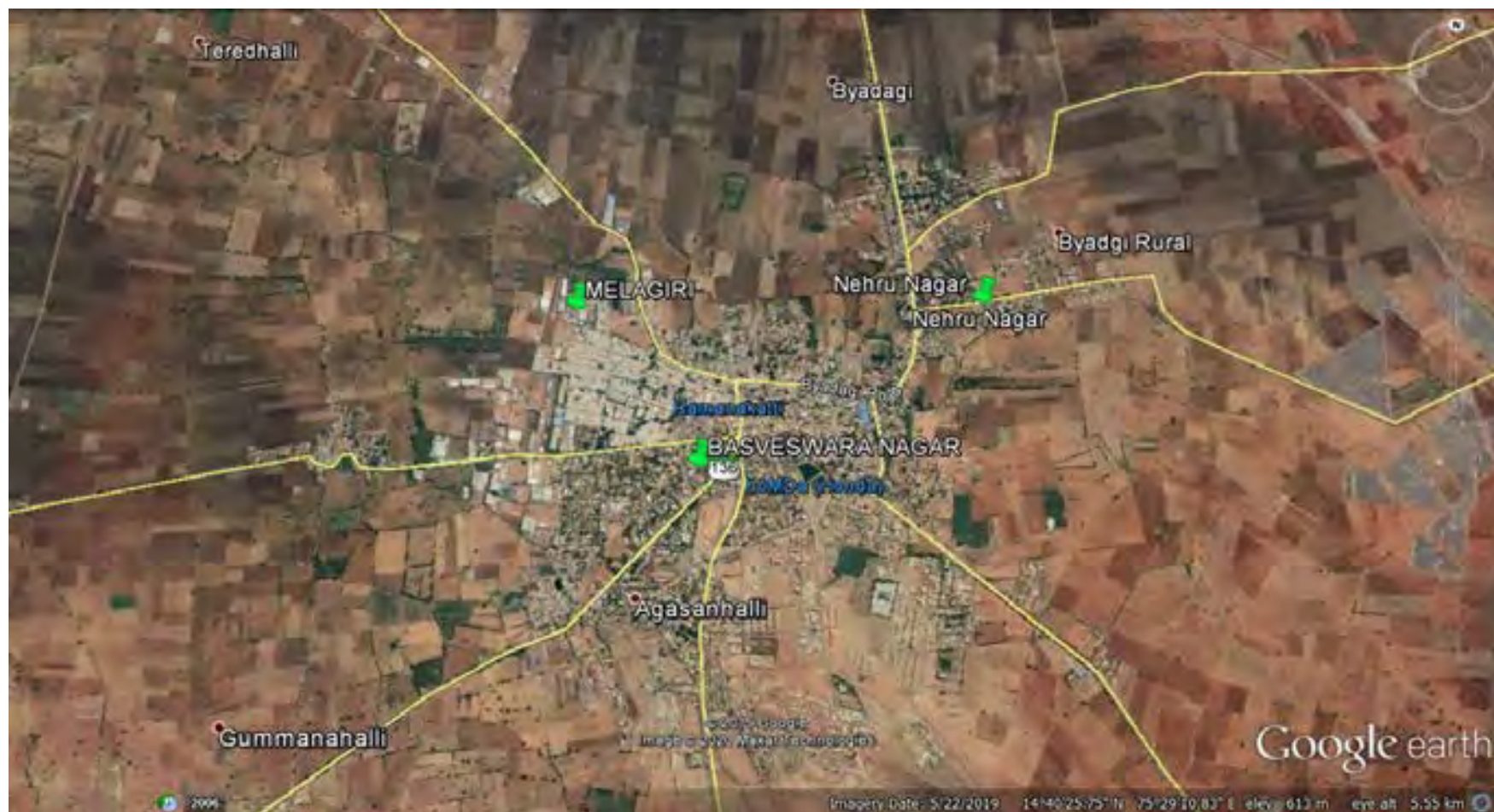
Air, Noise Water Sampling stations- Davanagere Water Supply Distribution project (Package 01WS05)



Air and Noise stations- Harihara Water Supply Distribution project (Package 01WS04)




Air and Noise stations- Byadgi Water Supply Distribution project (Package 01WS03)



Sample: Spoil Management Plan

Davanagere Water Supply Distribution

SPOIL MANAGEMENT PLAN (SPM)M/S –SuezJuly 2019 to December 201901WS05-Package

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Construction of Distribution Network-Operator assisted in Davanagere including 8 Years O & M of 24 x 7 Davanagere Water Supply System Contract Package No 01WS 05					
		Sanoop cv	Vishal Pattanshetti	Satchith Antony	For Approval
Rev.	Date	Prepared By	Checked By	Validated By	Submission Purpose
00	31-12-2019				

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1.0 Introduction

This Guideline has been developed for two primary reasons, to provide consistent guidance on spoil management in relation to construction activities and to encourage increased diversion of spoil from landfill.

This Guideline should be used as a resource by property owners, builders and developers to assist in assessing likely waste generation from construction projects and identifying ways to divert any waste generated from landfill.

2.0 PURPOSE

This Spoil Management Plan (SMP) has been prepared to manage spoil during construction of the SVC Works. Set spoil management protocols. Outline responsibilities of site personnel involved in spoil management. Provide a process for identifying and managing environmental and other risks associated with spoil handling

3.0 Legal and other Requirements

Construction and Demolition waste management rule 2016

ADB Guidelines (Initial Environmental Examination)

4.0 Roles and Responsibilities

Position	Responsibilities
Project Manager	Overall responsibilities for implementation of Spoil Management plan

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	Overall responsibility for compliance with statutory requirements
Construction Manager	Day to day implementation of Spoil Management plan
	Day to day co-ordination of the project
Site Engineer	Ensures all equipment is adequately available, maintained and correctly operated
	To carry out action of Spoil management plan
	Report all environmental incidents
HSE Manager	Provide advice on spoil management related issues
	Report any non-compliances in implementing Spoil management plan
All persons involved in project	Comply with requirements of Spoil Management plan
	Exercise duty of care to the environment at all times

5.0 Identification and assessment of spoil aspects and impacts

Environmental Aspects	Environmental Impacts
<ul style="list-style-type: none"> Excavation for pipeline laying Demolition of overhead water tank Spoil storage Spoil transportation 	<ul style="list-style-type: none"> Water & air pollution from the dust generated due to excavation, demolition Flora and fauna damage due to sediment run off from spoil excavation Water, soil and air pollution from inappropriate storage, handling and disposal of spoil.

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	<ul style="list-style-type: none"> • Mud-tracking during haulage operations. • Noise & vibration impacts from demolition activity
--	---

6.0 Spoil volume, characteristics and minimization

Spoil volume calculations: Estimate the volume Spoil volume calculations: Estimate the volumes of spoils produced from each of the construction sites. Characterization of spoil: Based on the type of spoil; characterization is done (sand stone, mud mix materials, reusable materials)

7.0 Spoil reuses, Opportunities, Identification and Assessment

An overview of the assessment methodology to be used is mentioned below. -
Consideration of likely spoil characteristics - Identification of possible reuse sites -
Screening of possible reuse opportunities

8.0 Onsite Spoil Management Approach

Spoil from the excavations done for pipe laying will be stored on the site in such a way that it will not cause any hinderance to the traffic movement. It will be properly barricaded and necessary caution signage will be displayed. If the spoil is in large quantities which may cause disturbance to traffic movement then it will be transported to dumping site designated by KUIDFC. For excess spoil disposal, site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained.

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Debris disposal site shall be at least 200 m away from surface water bodies. No residential areas shall be located within 50 m downwind side of the site; and site is minimum 250 m away from sensitive locations like settlements, ponds/lakes/ river.

Following are the sites identified for spoil disposal


1. Site Name, address and google earth image
2. Site Name, address and google earth image
3. Site Name, address and google earth image

9.0 Spoil Transportation Methodology

- Spoil will be transported by registered road trucks.
- Spoil transportation routes will be identified with the help of local authorities of KIUDFC.
- The spoil carrying trucks will be covered with dust nets (green nets) during spoil transportation.
- The drivers will be given training in order to make them aware of requirements of Spoil management plan.

10.0 Monitoring, Reporting, Review and Improvements

Volumes of spoil generated will be recorded using a register. Monthly quantities of spoil re-used, and spoil disposed shall be recorded. The report will separate the reused spoil into the quantities of material reused on-site and the quantities of material reused offsite.

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Continuous improvement of this Spoil Management Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

11.0 Disposal sites for Spoil

The site shall be selected preferably from barren, infertile land. There are not surface water bodies near this site. There are not residential areas and no sensitive locations near this site. Following sites are identified for spoil disposal. Letters are given to client for approval

12.0 Handling Spoil Contamination

Contaminated spoil may be found during excavation. If contaminated soil is found, following precautions shall be taken.


Client and consultants shall be immediately informed about contaminated soil.

Handling contaminated soil requires precautions to ensure safety. Site workers will be trained and awareness shall be given to follow safety procedures while excavating soil to avoid contact with contaminants and prevent the spread of contamination offsite.

Site workers shall wear protective clothing such as rubber gloves, boots, hard hats, and coveralls. These items are either washed or disposed of before leaving the site to keep workers from carrying contaminated soil offsite on their shoes and clothing. The tires and exteriors of trucks and other earth-moving equipment are also washed before leaving the site so that the soil is not tracked through neighboring streets.

Onsite storage of contaminated soils will be minimized.

If temporary stockpiling of contaminated soils is required the stockpiles will be

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placed on tarps and covered with tarps; berms will be installed around the stockpile to prevent runoff from leaving the stockpile area; stockpiles will not be placed near storm drain inlets.

Stockpiled soils will be tested by the Environmental Consultant and as based on the test results the soils will be disposed of at the appropriate approved disposal facility

13.0 Spoil Generation record


Date	Name of the Site	Spoil Generated (m ³)	Quantity Disposed (m ³)	Name of Disposal site	Quantity Reused (m ³)	Remarks
21-Oct-19	Devarj hrs	108	108	Near WTP Bathi	0	
14-Nov-19	KV Shetty park	65	65	Near WTP	0	

14.0 Site Restoration


The excavated site shall be properly backfilled and compacted after laying the pipe and the site / road shall be restored to the original condition.

Sample - Traffic Management Plan

Davanagere Water Supply Distribution


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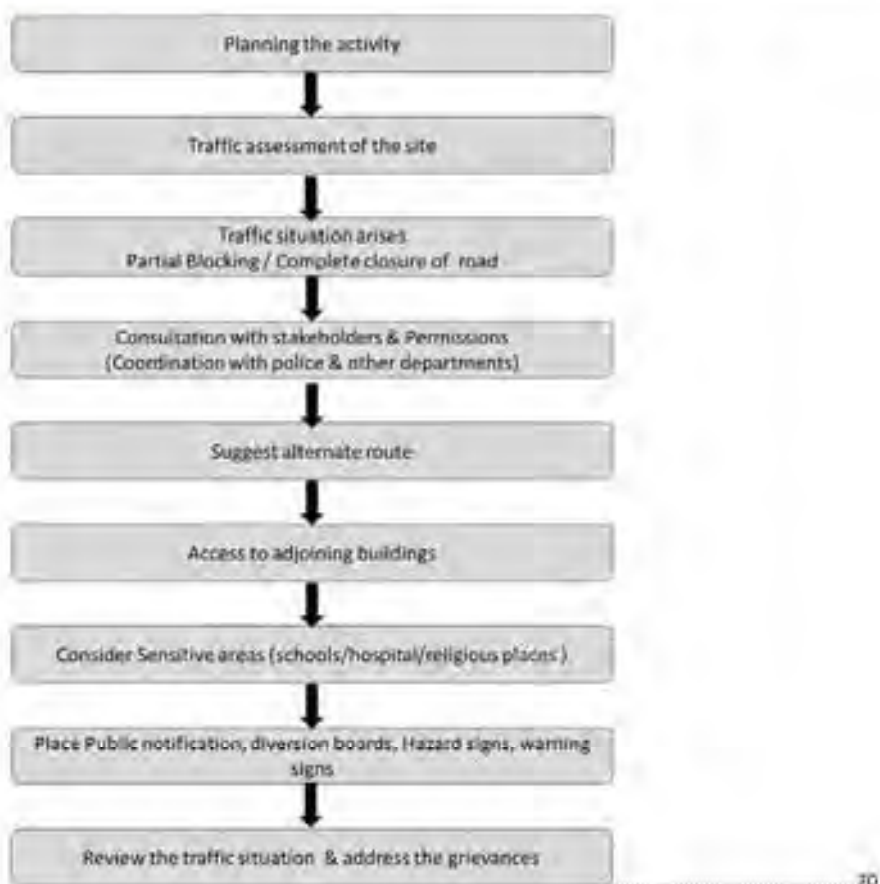
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1.0 OBJECTIVE

The 2-primary objective of temporary traffic control is to manage the traffic as efficiently and safely as possible under all work conditions and second objective is to lay down procedures to be adopted by field engineers to ensure the safe and efficient movement of traffic and also to ensure the safety of workers at site.

Traffic control aims to give adequate warning and clear information to motorists & pedestrians about the nature of works on site. This will translate into correct actions required in order to pass the work site safely. Traffic control shall also include measures to safeguard pedestrians when necessary. Proper traffic control also protects those who are directly involved in carrying out the works.

2.0 GUIDING PRINCIPLES


The guiding principles for safety in road construction zones are to:

- i. Warn the road user clearly and sufficiently in advance
- ii. Provide safe and clearly marking lanes for guiding road users
- iii. Provide adequate measures that control driver behavior through construction zones.

3.0 PHASES OF TRAFFIC CONTROL





There are five phases of traffic control for major projects:


- **Planning Phase:** To identify and include traffic control requirements in the contract specification, work program & method of construction.
- **Design Phase:** To design the Traffic Control Plan in detail, with regards to types, location and layout of traffic control devices for submission to the authority for approval.

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- **Implementation:** - To install the temporary traffic control devices safely in accordance with the approved traffic control Plan.
- **Operation and Maintenance Phase:** - To inspect the Traffic Control Plan and devices regularly by day and night to ensure that they are effective and absolutely safe.
- **Close out Phase:** - To remove all the traffic control devices safely and reinstate the permanent traffic scheme

4.0 TRAFFIC CONTROL DEVICES


NO	DESCRIPTION	SPECIFICATION	PICTURE
1	MEN AT WORK, GO SLOW 	Material: MS Pipe, MS sheet, Height: 1150 MM Width : 1500 MM The signalization shall respect color, be visible from distance and robust. However, design of boards & logo may vary.	
2	WORK IN PROGRESS 	Material: MS Pipe, MS sheet, Height: 1150 MM Width : 1500 MM The signalization shall respect color, be visible from distance and robust. However, design of boards & logo may vary.	

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3	DIVERSION 	Material: MS Pipe, MS sheet, Height: 1150 MM Width : 1500 MM The signalization shall respect color, be visible from distance and robust. However, design of boards & logo may vary.	
4	CAUTION SAFETY TAPE	Material: Plastic Color: Red and white stripes	
5	TRAFFIC CONES	Height: 75cm Material: Rubber Base With reflection bar	

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6	BARRIERS	<p>Barricading block Interlocking wall effect, 90 degree turning radius</p> <p>For wide road > 2000mm Length- 2000mm Width- 600 mm Height- 900mm</p> <p>For narrow street < 2000mm Length- 1000mm Width- 300 mm Height- 800mm (low width barricades are acceptable for narrow spaces)</p> <p>GI sheet barricading as per requirement (min. two sheet width)</p>	 
7	ROTARY LAMP (Must for traffic block / diversion)	<p>Color: Yellow Rotating motor use motor system</p> <p>Environment friendly: no UV, IR, lead or mercury.</p>	
8	BARRICADE LAMP (Must for barricade along running traffic and additional for traffic blocking / diversion)	<p>Color: Red/ Orange</p>	

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9	STICK LAMP (Must for traffic controller / security man / Signaling man)	Color: Red/Orange	 
10	LIGHTING LAMP	Super Bright White LEDS	

5.0 SIGN PLACEMENT

The correct positioning and size of signs will ensure that it will be observed and recognized, thereby providing the driver with more time to react and act.


The following principles will govern the positioning of signs:

- Their location will have clear visibility
- They will be so placed that driver would have adequate time for responses
- As a general rule, signs will be placed on the left-hand side of the road. Where special emphasis is required.
- The signs will be covered or removed when they are not required

6.0 TRAFFIC CONES

Traffic cones will be 800mm high and 300mm to 500mm in diameter or in square shape at base and are often made of plastic or rubber and normally have retro-reflectorized red and white band. Their advantages are that they:

- Cause minor impediments to traffic flow and capacity.

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- ii. Are well recognized and understood, without damaging vehicle when hit,
- iii. Will be easily stored and transported,
- iv. Will be fastened to the pavement and self-restoring when hit.




7.0 BARRICADES

Barricades are intended to provide containment without significant deflection or deformation under impact and to redirect errant along the barrier. They are designed to be easily relocated and have four specific functions to:

- (i) Prevent traffic from entering work areas, such as excavations or material storage sites;
- (ii) Provide protection to workers;
- (iii) Separate two-way traffic; and
- (iv) Protect construction such as false work for culverts and other exposed objects.

8.0 FLAGMEN

The control of traffic through work area is an essential part of road construction and maintenance operations. Flagmen with hand signaling devices such as flags and traffic batons play crucial role in this direction. The flagmen at the work sites are expected to stop traffic intermittently and to maintain continuous traffic past a work

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site at reduced speeds to help protect the workmen. For both functions, the flagmen will, at all-time be clearly visible to approaching traffic for a distance sufficient to permit proper response by the drivers to the flagging instruction and to permit traffic to reduce speed before entering the work site. This distance is basically related to approach speed and site conditions; however, 60 m to 100 m is desirable.


Working in public utilities / near busy roads involves risk to general public in addition to workmen performing their duties. Therefore, proper planning of diversion of traffic, putting signage / caution boards, installing barricade and deputing signaling man / watch man to be identified well before start of work.

Implementation of traffic plan with identified control measures is responsibility of each person in-charge of activity.

9.0 SITE ORGANIZATION

• Following is the standard for organizing a work site

1. Barricading boards
2. Traffic cones
3. Diversion sign board @ 10 Meter from work site
4. Stop Sign @ 20 Meter from work site
5. Mandatory PPE sign board
6. Traffic cones
7. Soft Barricading by caution tape
8. Blinker lights on barricading boards facing the traffic

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In general, if the walking space is less than 1 mtr. in Width (depending on pedestrian flow), or there is insufficient space left for fixing the barricading board, pedestrian movement can be blocked / diverted after obtain permission from concern authority. Storage of loose materials or construction materials / machines should not be done on walkways. This may require continuous clearing of waste / unwanted materials from work areas.



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9.2 Partial blocking of a traffic lane of road may cause potential risk of collision of vehicles resulting to serious injuries and inconvenience to commuters:

Blocking of a traffic lane to be planned and controls to defined and implemented prior to start of job. This may require permission from authorities and:

- Diversion of traffic to minimize bottle neck and impact on traffic load
- Placing hard barricades & safety cones to contain risks arising out of work in progress area
- Placing signage, caution notices & signals (lighting lamps / rotary lamps) for public and vehicles keeping day and night in mind
- Deputing a dedicated man as watch man / signaling man to guide traffic

The supervisor of works shall ensure that the signalization / safety signage, barricade of works are in place prior the start and during works.


All workmen including watch man / security guard to be inducted for hazards and associated risks and Do's & Don'ts instructions to be followed by each one of them.

Additional soft barricading to be provided for visual impact and better controls.

Continuous vigil to be kept to rectify and improve the controls as and when required.

Do's and Don'ts for an employee working beside busy roads.

Sl.	Do's	Don't
1	Wear reflective vest, helmet and safety shoes for high visibility and protection from injuries.	Do not remove your PPE's while working on site
2	Stay out of path of moving vehicles, plant or equipment	Do not approach to traffic / roads or un-barricaded areas without permission
3	Follow traffic signals of police and watch man deputed on site	Do not take shortcuts or do not avoid dedicated paths

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4	Ensure all machines & materials are placed safely.	Do not keep machines or materials etc. on pathways or outside the barricaded areas
5	Enter trenches only when appropriate wall support is in place	Do not enter deep trenches unless you are authorized by your supervisor
6	Be vigilant to your surroundings. In case you notice any abnormal conditions,	Do not ignore instructions given to you or danger noticed by you
	<ul style="list-style-type: none"> - Inform your supervisor - Alert your co-workers 	<ul style="list-style-type: none"> - Do not put yourself or your co-workers in danger

9.3 Complete Closure of a road may cause potential risk of traffic congestion, and inconvenience to commuters and trespassing of vehicles resulting to serious injuries:

There may be situations where work plan requires complete closure of a road. For complete closure of the road following points shall be considered

- Approval from the Udupi Corporation / Public Works Department (PWD) to use the local Streets as detours
- Consultation with businesses, community members, traffic police, PWD, etc. regarding the mitigation measures necessary at the detours where the road is diverted during the construction
- Determine maximum no of days for road closure
- Determine additional traffic control, temporary improvements
- Access to the work site
- Developing a notification program to the public so that the closure is not a surprise. As part of this program, the public should be advised of alternate routes that commuters can take or will have to take as result of the traffic diversion

In such cases good traffic planning and organization of work is desired even if it is planned in lean traffic timings.

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Flowing points are vital in case of complete closure of the road


- Diversion of traffic to minimize bottle neck and traffic congestion
- Complete closure of road / pathways using hard barricading & safety cones to contain risks arising out of work in progress area
- Placing direction signage, red light, caution notices & signals (lighting lamps / rotary lamps) for public and vehicles keeping day and night in mind
- Deputing a dedicated watch man / signaling man to guide traffic

Manager of works along with subcontractor & Safety officer to inspect prior to start of works and review the situation periodically.

Supervisor of works to inspect the area every day before starting and at end of day's work or during recess to ensure no unsafe condition is left behind. There may be chance that barricading boards are temporarily removed or any materials / machines are left unattended in public places posing risk of trespassing or injury to general public.

Flagman to be dedicatedly deputed to guide traffic and keep control on unauthorized entries.



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10.0 LIFE SAVING RULE

Life saving rules related to driving safety must be followed at site

1. Do not handle your phone or any other communication device when driving.



2. Do not work and do not drive under the influence of alcohol or drugs.

	Suez Projects Private Limited	Doc: SPPL/HSE/ TMP-01 Rev: - 1 Jun - 2019 Page 17 of 20
	Traffic Management Plan	



3. Signal, reduce speed and check mirrors before turning or reversing.




11.0 INSPECTION OF VEHICLES

All Site vehicles shall be inspected once in a month as per following checklist.


	Suez Projects Private Limited	Doc: SPPL/HSE/ TMP-01 Rev, – 1 Jun - 2019 Page 18 of 20
	Traffic Management Plan	

Safety Department											
Vehicle Inspection Checklist											
Date: _____											
Rev: _____											
Doc: _____											
Vehicle No.	Vehicle Type	Registration No.	Insurance Documents	Insurance Certificate	Headlight	Tail Light	Indicators	Horn	Reverse Alarm	Fire Extinguisher	Remarks
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

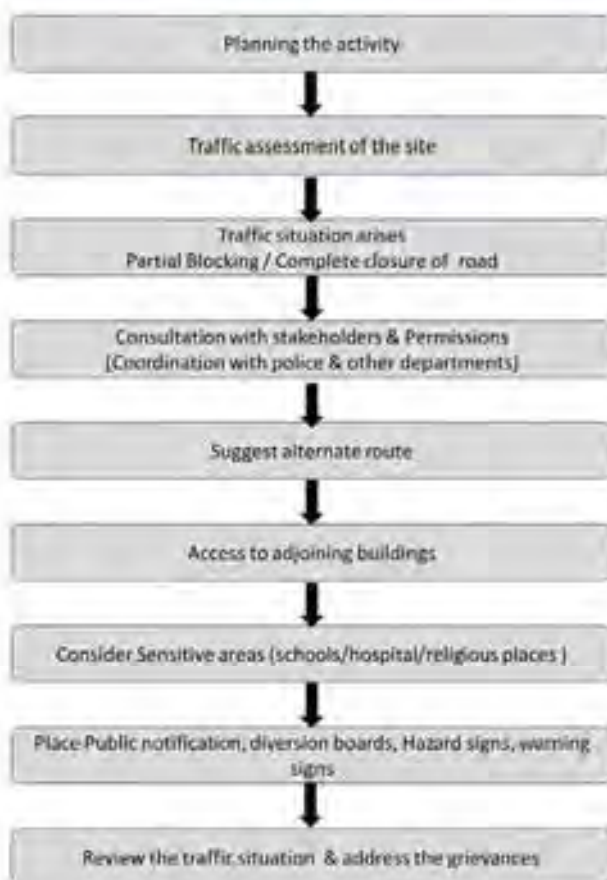
	Suez Projects Private Limited	Doc: SPPL/HSE/TMP-01 Rev: - 1 Jun - 2019 Page 19 of 20
	Traffic Management Plan	

12.0 TRAFFIC SAFETY RULES

Rules and Regulations related to driving license, registration of motor vehicles, control of traffic, construction & maintenance of motor vehicles etc. are governed by the Motor Vehicles Act, 1988 (MVA) and the Central Motor Vehicles rules 1989 (CMVR). All these rules must be obeyed wherever applicable

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	Traffic Management Plan	

13.0 TRAFFIC MANAGEMENT PLAN – POLICT STEPS



Sample - Traffic Diversion Plan

Harihara Water Supply Distribution





5th Edition Kalmanovskii Textbook

Sri Vinayaka Temple

Curry Theophrastus
President of the School

Table 2



2nd Main Rd

Manojit K. Saha

3rd Main

Errehabilitationszentrum
CMA Medical Kliniken
Hilfsnetz, Eckenstein-Center für

Google
Savannah (Circle) 3rd May 2011

Car Wash Center

2nd Main Rd






42



Sample Internal Training document- Contractor

Davangere Water Supply Distribution


	SUEZ PROJECTS PVT. LTD.	No.
	DAVANAGERE	Rev.000
	Training Attendance Sheet	Date: Jan' 2019 Page. 1 of 1

Training program: *Induction training*Date: *05/1/19*Time: *10:00am to 11:00am* Conducted by: *Jalaluddin / Rajesh*Topics Covered: *House Keeping, underground cable, electrical cable, PPE's, Waterway for proper trench, etc*

I ACKNOWLEDGE THAT I HAVE UNDERSTOOD THE ABOVE MENTIONED TOPICS

S/N	NAME	COMPANY / DEPTT.	DESIGNATION	SIGNATURE
1.	<i>Poovren</i>	<i>S.S.E</i>	<i>Hsc Labour</i>	<i>S. 21/18</i>
2.	<i>Putta Shamy</i>	<i>S.S.E</i>	<i>Hsc Labour</i>	<i>Putta Shamy</i>
3.	<i>Girish</i>	<i>S.S.E</i>	<i>Hsc Labour</i>	<i>Girish</i>
4.	<i>Nethamma</i>	<i>u</i>	<i>u u</i>	<i>Nethamma</i>
5.	<i>Raju</i>	<i>u</i>	<i>u u</i>	<i>Raju</i>
6.	<i>Yellamma</i>	<i>u</i>	<i>u u</i>	<i>Yellamma</i>
7.	<i>Venkatashappa</i>	<i>u</i>	<i>u u</i>	<i>Venkatashappa</i>
8.	<i>Yellappa</i>	<i>u</i>	<i>u u</i>	<i>Yellappa</i>
9.	<i>Ramu</i>	<i>u</i>	<i>u u</i>	<i>Ramu</i>
10.	<i>Ravi</i>	<i>u</i>	<i>u u</i>	<i>Ravi</i>
11.	<i>Appu</i>	<i>u</i>	<i>u u</i>	<i>Appu</i>
12.	<i>Nagaraju</i>	<i>u</i>		<i>Nagaraju</i>
13.	<i>Kariyappa</i>	<i>u</i>		<i>Kariyappa</i>
14.	<i>Jindamma</i>	<i>u</i>		<i>Jindamma</i>
15.	<i>Anji</i>	<i>u</i>		<i>Anji</i>

Man Hours: *15 hours*Sign of Trainer: *[Signature]*

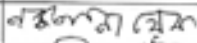
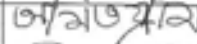
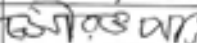
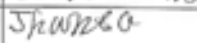


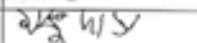
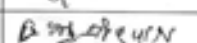
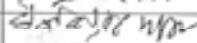

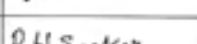

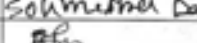
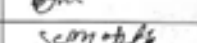
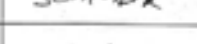
	SUEZ PROJECTS PVT. LTD.	No.
	DAVANAGERE	Rev.000
	Training Attendance Sheet	Date, Jan' 2019
		Page. 1 of 1

Training program: Induction training

Date: 03/12/19 Time: 10:00am to 11:00am Conducted by: Jafaluddin

Topics Covered: (WIAH) Working at Height, House Keeping
PPE's, Scaffolding, Life saving rules

I ACKNOWLEDGE THAT I HAVE UNDERSTOOD THE ABOVE MENTIONED TOPICS

S/N	NAME	COMPANY / DEPTT.	DESIGNATION	SIGNATURE
1.	NAKUL Nayak	C.S.T	Skilled Labour	
2.	Umrit	C.S.T	Skilled	
3.	Sohiyath	"	"	
4.	Jonthu	"	"	
5.	Gopal mma	"	"	
6.	Debo Singh	C.S.T		
7.	Modu Das	"	skilled	
8.	Vishwajeeth Das	"	"	
9.	Bhona Some Das	"	"	
10.	Karani Das	C.S.T	"	
11.	Ravi Shankar	"	"	
12.	Somithra Das	"	"	
13.	Vishwajeeth	"	"	
14.	Somnath	"	"	
15.	Shubrattha	"	"	

Man Hours: 15 hours

Sign of Trainer: 

Harihara Water Supply Distribution



SITE SAFETY INDUCTION

Date 02/08/2019
 VIPL / Contractor
 Project Details
 Nature of work

Location Hosur, (Km-05)
 No of Person Inducted - 08

Sl.No	Name	Designation	Sub Contractor	Signature
01	Sunil	Measur.	K.M. Construction	Sunil
02	Prakash	Measur.	K.M. Construction	Prakash
03	Shivanna	Labour.	K.M. Construction	
04	Basappa	Labour.	K.M. Construction	
05	Mahesh	Labour.	K.M. Construction	
06	Shivappa	Labour.	K.M. Construction	Shivappa
07	Krishna	Labour.	K.M. Construction	Shivappa
08	Chandra	Labour.	K.M. Construction	Shivappa

Points Discussed

- ☒ Policy
- ☒ Drugs & Alcohol
- ☒ Potential Hazards in Site
- ☒ Emergency Contact Numbers
- ☒ Driving
- ☒ Potentially Unsafe conditions in site
- ☒ Reports of Incidents / UNSAFE condition & Act

- ☒ Responsibilities related to safety
- ☒ Site layout and Emergency Preparedness
- ☒ Required PPE
- ☒ Work Permit System
- ☒ Local Safety Requirements
- ☒ Location of fire fighting equipment
- ☒ First Aid and Safe Assembly point

Additional Information Provided

Signature



SITE SAFETY INDUCTION

Date 10/11/2019

Location Zam - 04

VIPL / Contractor VEP

No of Person Inducted - 08/10

Project Details Construction of pipeline with 800mm (Kashan one)

Nature of work pipeline work

Sl.No	Name	Designation	Sub Contractor	Signature
01	Khan	labour	Kuldeep	
02	Uday Kumar	labour	Kuldeep	
03	Manoj Kumar	labour	Kuldeep	
04	Kishan	labour	Kuldeep	
05	Shiva	labour	Kuldeep	
06	Manoj Kumar	labour	Kuldeep	
07	Bansagar	labour	Kuldeep	
08	Bhatia	labour	Kuldeep	

Points Discussed

- ☒ Policy
- ☒ Drugs & Alcohol
- ☐ Potential Hazards in Site
- ☐ Emergency Contact Numbers
- ☒ Drilling
- ☒ Potentially Insects in site
- ☒ Reports of Incidents / LMSAFE condition & Act

- ☐ Responsibilities related to safety
- ☐ Site layout and Emergency Preparedness
- ☒ Required PPE
- ☐ Work Permit System
- ☒ Local Safety Requirements
- ☐ Location of firefighting equipment
- ☒ First Aid and Safe Assembly point

Additional Information Provided

Aditya

<big>S</big>hriram^epcc	SHRIRAM EPC LIMITED		Format No.	IMS/HSE/F04
Engineering the future	SAFETY TOOLBOX MEETING		Rev No	00
			Issue No	01
			Issue Date	12.02.2019

Project Name	MSHA / TES
Topic Covered	House Keeping, Material Handling ..
Conducted By	Vignesh . AS / Safety Engg -
Signature	[Signature]
Date	21 / 11 / 2019
Time	10.30 AM

TOTAL NO OF PERSONS ATTENDED

S.No	Name	Designation	Signature
1)	Raja	Senior / Fitter	[Signature]
1)	Anand	Laborer	V. Vignesh [Signature]
1)	Kavi	Laborer	V. Vignesh [Signature]
1)	Muthuselvan	Laborer	A.R.MANJUNATH [Signature]

Page 1 of 1

“Nothing We Do Is So Important That It Cannot Be Done Safely And Carefully Protecting Health, Safety And Environment”

Medical Tie up and Health check up

Davangere Water Supply Distribution

Tie up letter with hospital

 INDIA NON JUDICIAL Government of Karnataka e-Stamp	
Certificate No. Certificate Issued Date Account Reference Unique Doc. Reference Purchased by Description of Document Description Consideration Price (Rs.) First Party Second Party Stamp Duty Paid By Stamp Duty Amount (Rs.)	IN-KA188531114370070 01-Jan-2019 11:53 AM NONJUD (FIV) KA0006/ DAVANGERE/ KA-DV SUBIN KAKA/5FGL0822677011150102R SS INSTT OF MEDICAL SCIENCE AND RESEARCH CENTR DVG Auckh 13 Bond MOU 0 (Zero) SS INSTT OF MEDICAL SCIENCE AND RESEARCH CENTR DVG SUEZ PROJECT PVT LTD DVG SS INSTT OF MEDICAL SCIENCE AND RESEARCH CENTR DVG 200 (Two Hundred only)
 	
The Davangere Water Supply Corporation Ltd. (DWS) 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 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1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 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1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192,	



AND

SUEZ PROJECTS PVT., LTD., having its Registered Office at Unitech Business Park, Tower-A, 2nd Floor, South City-1, Gurgaon-122001, Haryana, – 577 005, through its Assistant Vice President, Sri Rajaratan Vithal Kulkarni, duly authorized (herein after referred to as the "SPPL" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the Second Part.

WHEREAS

1. The Hospital provides "in-patient" medical and/or surgical treatment to SPPL employees and the SPPL reimburses the charges of the Hospital for provision of such "in-patient" medical and/or surgical treatment.
2. The parties have now decided to enter into a Memorandum of Understanding and agreement between the Parties with regard to treating the SPPL employees.

NOW THEREFORE IT IS AGREED as follows:

1. Hospital agrees to provide OPD consultation to SPPL Employees.
2. Hospital shall treat the SPPL Employees in a courteous manner and according to good business practices.
3. Hospital shall extend admission facilities to the SPPL Employees round the clock.
4. Hospital shall ensure the best and complete diagnostic, therapeutic and follow-up services based on standard protocols and medical practices/recommendations are extended to the SPPL Employees.
5. Hospital agrees to provide quality medicines, standard prostheses, implants and disposals while treating the SPPL Employees.
6. The authorization letter to be sent by SPPL in original along with their employees for treatment.

The block contains a handwritten signature in blue ink and a blue circular stamp. The stamp has the text 'SUEZ PROJECTS PVT. LTD.' around the perimeter and a stylized 'suez' logo in the center.

ದಸ್ತಾವೇಜು ಹಾಳೆ

Document Sheet

ಈ ಹಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಉಪಯೋಗಿಸಬಹುದು
This sheet can be used for any document



ದಸ್ತಾವೇಜನ್ನು ಬರೆದುಕೊಳ್ಳುವ ದಿನಾಂಕ
Date of Execution

7. Admission sought by the SPPL patient during emergency may be permitted on the basis of Identity Card provisionally. The authorization letters are to be produced on the next working day. In such cases the hospital may issue a certificate about the emergency condition of the patient. In case failure to produce the authorization letter on the next working day due to any valid reasons, the employee/labour shall execute an undertaking letter to the hospital that the employee/labour shall be responsible to settle the bills at the time of discharge.
8. The Hospital will raise the bills for the SPPL patient treated on the basis of current tariff and if any rates are revised the same will be intimated as and when the revision takes place.
9. The SPPL agrees to settle the hospital bills within 30 working days. Delayed payment beyond the period of credit will attract interest at the rate of 12% p.a. which should be remitted along with the bills payment.
10. Hospital agrees provide Medical Health checkup camp at your site and agrees to depute Medical Practitioners and other staff on site in three months as requested by SPPL and the same will be billed on SPPL for payment, and the SPPL agrees to provide the transportation facility for visiting Medical Practitioners and other staff to your site.
11. Hospital agrees to provide the bank details for electronic fund transfer for settling the claims.
12. All stakeholders undertake to protect the secrecy of all the data and trade or business secrets of, and will not share the same with any unauthorized person for any reason whatsoever within or without consideration.
13. This agreement shall be for an initial term of Two (02) years commencing from 01.01.2019.
14. Both parties have right to terminate this agreement by assigning proper reason and giving 60 days advance notice to other party.
15. Any dispute or difference between the parties to this agreement or in connection therewith or arising there from or involving any interpretation of any terms thereof, will be settled amicably through discussions within fifteen days of receipt of written notification by one party from the other party regarding differences or dispute arisen, failing which, the same shall be settled by way of arbitration proceedings by process of Arbitration of a tribunal comprising three arbitrators, one of each to be appointed by Hospital and the SPPL and the third arbitrator to be appointed jointly by the two arbitrators so appointed who shall be the presiding arbitrator.



ದಸ್ತಾವೇಜು ಹಾಳೆ

Document Sheet

ಈ ಹಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಉಪಯೋಗಿಸಬಹುದು
This sheet can be used for any document

ದಸ್ತಾವೇಜನ್ನು ಬರೆದುಕೊಟ್ಟ ದಿನಾಂಕ
Date of Execution



16. The arbitration proceedings shall be governed by the provisions of the Indian Arbitration and Conciliation ACT 1996, or any re-enactments or statutory modifications thereof for the time being in force.
17. The venue of the arbitration shall be at Davangere, India only. This agreement shall be subject to the jurisdiction of the appropriate courts at Davangere, India only.
- IN WITNESS WHEREOF the Parties have caused this Agreement to be executed by their respective duly authorized representatives on the day and year first set forth hereinabove.
18. Any Employee/Labour shall be guaranteed admission in Hospital without payment of cash deposit.
19. Emergency contact person and Number (Hospital) in case of emergency. 1) Kumar K.S. MSW - 8217783906 2) Muzeebulla- 9986164959 (Health Scheme Counter)
20. The Employee/Labour should produce referral letter from the authorized signatory at time of admission. In case of emergency, treatment will be provided on the basis of the identity card produced by staff or telephone call from our authorized staff, Mr. Rakesh Shetty-9611649481, Mr. Sanoop-9686005144 & Mr. Prashanth VK-9900021817.
21. In-patient admission for services and treatment is however subject to availability of Hospital beds.

For S.S. Institute of Medical Sciences & Research Centre For Suez Projects Pvt. Ltd.

Sathyaparanatha T
Director (Administration)
S.S. Institute of Medical
Sciences & Research Centre
Davangere-577 005.
Witness:-

Rajaratan Vithal Kolmani
Assistant Vice President

1.
DR. N.K. Kalappanavar
Medical Director
SSHS&R.
Davangere.

2.
Rakesh Shetty, B.S.
SUEZ PROJECTS PVT. LTD.
Suptayini 958 Plaza.
Reside Internet office DVG.

Health Checkup O.P.D.Register

		Jalalopei yagane malomagan, Paliko)		m-t
		25/12/19		
10915		Syed Azalana S/O Syed. Vassila B.D	31/11/19	19/11/19
10916		Jeestendaa S/O Ganesh S.S m maly	21/11/19	19/11/19
10917		Sattyclondra S/O Utkarsh Nair	19/11/19	19/11/19
10918		Jeestendaa Keemur S/O Kilo palwan -1	19/11/19	19/11/19
10919		Eionindokumee S/O Inalla palwan -1	19/11/19	19/11/19
10920		Rajeeve S/O Purna Sat S.S m -1	19/11/19	19/11/19
10921		Rajendar palwan S/O Simwanku palwan + ho / on		
10922		malendax palwan S/O Kulure palwan S.S m / m		
10923		Azil S/O Parnuthi S.S m maly		15/11/19

10	10924		Nedukulla S/O Subbar S/O 25m	29/m	
11		10921	Sabirathu 1000 Aramban Aradale	60/F	40m
12	10920	10540	Zairunila 1000 mof/Sat. Aradale	60/m	20m/10m
13		10566	Kamalanila 1000 Kuthu Aradale	60/F	20m/10m
14	10925		risenathu 200 Masabathu 100	100/F	20m/10m
15		10544	Chandri 1000 Budenath 1000 pupu	60/F	20m/10m
16	10926		Indasakumar 1000 S/O 1000	35/m	
17	10927		Nandakumar S/O Rajendran 1000	35/m	
18	10928		Nandakumar S/O Shankar S/O	70/m	
19	10929		Sathandrasapathi S/O Mathu S/O	20/m	
20	10930		Bennadab S/O Ramajeeva S/O	40/m	
21	10931		Agar S/O Nandakumar S/O	20/m	
22	10932		Bathal S/O Rajaram S/O	40/m	
23	10933		Bala Pura S/O Phasasuparasumam	33/m	
24	10934		Nagura S/O Lakshmi S/O	20/m	
25	10935		Ningara S/O Ulabathu S/O	25/m	
26	10936		Ranap S/O Jendran S/O	30/m	



Harihara Water Supply Distribution

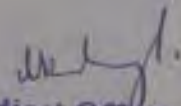
Tie up with Hospital

OUR LADY'S HEALTH CENTER, HARIHAR
Temple Road, Harihar. ☎ 242713

AROGYA MATHEYA HOSPITAL
Amaravathi Colony, HARIHAR. ☎ 243693/242605

Ⓡ Construction of water supply in
Harihar (24x7) Package No:- 61WS04
Veolia India Pvt Limited has

Hundred workers. All workers are
working in water supply department
if they have any Health problems,
any minor injury will come & take
treatment in Arogya Matheya
Hospital Amaravathi Colony Harihar.


Medical Officer
Arogya Matheya Hospital
Amaravathi Colony Doddali Road,
HARIHAR 577 401.
KARNATAKA STATE

Medical Checkup



VINAYAKA CLINIC

Dr Shivakumar M.B.B.S.
Near Sriper Electrical, Gandhi Nagar
Haripur, Karnataka 577601

Phone: 7406442175



Certificate of Medical Examination

Ref. no.

- 1 NAME Sunil
- 2 AGE 28
- 3 BLOOD GROUP & R.H. FACTOR A +ve
- 4 CVS R.P - 120/80
- 5 RS npd
- 6 E/A - Soft indurated
- 7 C.N.S - npd
- 8 BLOOD SUGAR 98.0
- 9 ID Marks - Seemingly fine
- 10 OTHER - npd
- 11 REMARKS - npd

I certified that I have Examined Mr/Mrs Sunil
status of this fitness level is recorded above

DATE : 20/06/24

PLACE : for 24

G.M. SHIVAKUMARAPPA
M.D.S.
Vinayaka Clinic,
M.K. Road, HARIHARA-577601
Signature With Seal

SPANDANA LABORATORY

Old P.B.Road, Near Maharastra Bank, ILARITHARA -577601
Mobile No: 9741154164

Pts. Name: Sunil.

Age: 31 years

Sex: Male

Ref. By Dr.Shivakumarappa.G.M.

Date: 24/12/2019

M.B.B.S.,

REPORT

Test Name		Value	Unit	Reference Value
Random Blood Sugar	:	98.0	mg/dl	80 to 140
Blood Group	:	"A"		
Rh Type	:	Positive		

Thanks for your reference

Signature



VINAYAKA CLINIC

Dr Shivakumar M.B.B.S

Near Srijan Electrical, Gandhi Nagar
Hankar, Karnataka 577001

Phone: 7408442175



Certificate of Medical Examination

Ref: 110

1. NAME Mahendia . M.K.
2. AGE 28
3. BLOOD GROUP & R.H. FACTOR - O +ve
4. CVS R.P $\frac{110}{80}$
5. RS npd
6. P/A - Sple not palpable
7. C.N.S - npd
8. BLOOD SUGAR 109.0
9. ID Marks - scar on back
10. OTHER npd
11. REMARKS - np

I certify that I have Examined Mr/Mrs Mahendia . M.K.
Status of this fitness level is recorded above

DATE: 24th May
PLACE: FWZ

D.M. SHIVAKUMARAPPA
M.D.
Vinayaka Clinic,
M.K. Road, HANKAR, 577001
Signature With Seal

SPANDANA LABORATORY

Old P.B.Road, Near Maharastra Bank, HARIHARA -577601

Mobile No: 9741154164

Pts. Name: Mahendra.M.K.

Age: 34 years

Sex: Male

Ref. By Dr.Shivakumarappa.G.M.

Date: 24/12/2019

M.B.B.S.,

REPORT

Test Name	Value	Unit	Reference Value
Random Blood Sugar	109.0	mg/dl	80 to 140
Blood Group	"O"		
Rh Type	Positive		

Thanks for your reference

Signature



Byadgi Water Supply Distribution

Tie up with Hospital

Dr. S. N. Nidagundi M.B.B.S.

KMC Regn. No : 11313

Consulting Family Physician

Medical Examiner LIC Of India, Byadgi

Secretary St. John Ambulance India, BYADGI

Hon. Physician STI Clinic (KSAPS) Byadgi

Director, Community Health & Family Planning Centre, Ranebennur

**Dr. Nidagundi Clinic
& Day - Care Centre &
First-Aid Training Centre**

Near Bus-stand, BYADGI-581106.


Ph : (08375) (C) : 228341, (R) : 228383

Mobile : 9448165543

Ref No :

Date : 2-1-2018.

Here by I agree to
undertake ^{employees of} Medical examination
of n Shri Ram ~~EPL~~ Ltd Byadgi
and also do health check
up and treatment regularly
or when ever called for
at Byadgi.


Dr. S. N. Nidagundi,
Reg. No. 11313 M. B. B. S.
BYADGI.

Medical checkup Report

Dr. S. N. Nidagundi M.B.B.S.
KMC Regn No: 11311
Consulting Family Physician
Medical Examiner I & II of India, Bangalore
Secretary St. John Ambulance India, Bangalore
Hon. Physician STC CHS, KSAAP, Nidagundi
Director, Community Health & Family Planning Center, Basantnagar

Dr. Nidagundi Clinic
& Day-Care Centre &
First-Aid Training Centre
New Bus Stand, BY 78/21-78/100
Ph: 9847510123, 91216383
Mobile: 9448167543

Medical Examination Report

Name: T. P. Singh Age: 45 Sex: male
Place: Bangalore
Height: 1.72m Weight: 75kg BP: 110/70mmHg
Identification Mark: scar on Rt hand
Abdomen: 80cm
Chest: 85cm
Blood Group: -
Blood Sugar: 107mg/dl
Eye Sight: Normal

Systemic Examination

CVS - NA
RS - NA
CNS - NA
P/A - NA

Remarks: Normal

I certify that I have examined Mr/Mrs T. P. Singh Status of His/her Fitness
Level is recorded above.

Place: Bangalore
Date: 29/12/2019

Signature with Seal
Dr. S. N. Nidagundi
Reg. No. 11311 M.B.B.S.
BYAPCI

Scanned by CamScanner

Dr. S.N. Nidagundi M.B.B.S.

KMC Bapu Nagar

Consulting Family Physician

Medical Examiner I.C.O.I India, Mysore

Secretary 90, Dehali Ambulance India, Mysore

Class Physician STC Clinic (KAPPA) 6th

Director, Community Health & Family Planning Center, Bangalore

Dr. Nidagundi Clinic

& Day-Care Centre &

First-Aid Training Centre

New Bus Stand, HYADGI-SRI 100

PC-50017510, 20041, 90110100

Mobile: 9440145543

Medical Examination Report

Name: Deepali Age: 20 Sex: male

Place: Bijalgi

Height: 156 cm

Weight: 45 kg BP: 120/86

Identification Mark: -

Abdomen: 82 cm

Chest: 81 cm

Blood Group: -

Blood Sugar: 127 mg/dl

Eye Sight: Normal

Systemic Examination

CVS - ND

RS - ND

CNS - ND

P/A - ND


Remarks: Normal

I certify that I have examined Mr/Mrs Deepali Status of His/her Fitness
Level is recorded above.

Place: Bijalgi

Date: 29/12/2019

Signature with Seal


Dr. S. N. Nidagundi,
Reg. No. 11012 M.B.B.S.
HYADGI



MONTHLY REPORT ON CONSULTATIONS/DISCUSSIONS WITH THE STAKEHOLDERS

Name of the ULB: Davao City Corporation - (Urban Local Body)
Location: Davao
Sub Project: Suez 24x7 Water Supply Project - Davao

Sl.No	Date	Name and address	Contact No	Issues discussed	Opinions/ Suggestions by the Respondents	Photograph	Remarks
1	7/12/19	Mrs. B. Jock Kishor Chetty Post EPC 5083 - <u>Santhi, B. Jock</u>	8147166714	Excess of Soil Road Side	Excess of Soil shifted by tractors		
2	10/12/19	Renuka D. J. Rajesh Gandhi Baddur	9051145398	Road Detritation	Road Detritation done by the one day		
3	20/12/19	K.M. Kudaiyappa #667, 2nd Stage Shankar S.P. Sangeetha	8123905752	Pit opened	Balliation Road kept and tied caution tape		
4	22/12/19	Paizal #hon #736 Gandhi Baddur	784707654	Pipe details	Explain about the Quality of but HSP pipe		

Sl.No	Date	Name and address	Contact No	Issues discussed	Opinions/ Suggestions by the Respondents	Photograph	Remarks
5	3/12/19	Yashodamma # 664 2nd stage SPC Nagar	920665327	Dust Pollution	Water Spillage by the Soil. Same near by home		
6)	6/12/19	K. Nagesh #671 2nd stage SPS Nagar	7406947706	Road cracking	Ballastation Roads kept at the Road		
7)	30/12/19	Shivakumari Sowmya # 672, 2nd stage SPS Nagar	9380845518	Water Pipe damage	Water pipe Rectified		Picked



Harihara water supply Distribution

Public consultation attache photos at pipe laying constructions areas for the month of Decemeber 2019

01.Place: Hariharashawara temple
Customer Name: GURURAJ



02. OLD DRM, 5th cross
Customer Name: NAVEEN



03.Place: Indra Nagar
Customer Name: GANESH



04.Place: Benki Nagara
Customer Name: SAYEED



04.Place: Temple Road
Customer Name: ROOPA











Byadgi Water Supply Distribution

Name of the ULB: TMC, BYADGI

Date: DECEMBER 2019

Sub project component: 24x7 - Water Supply

Consultations/ Discussions with Stakeholders/ Community

Sl. No	Name and address of the person consulted	Contact No	Issues discussed	Contacted person is the beneficiary of the proposed project Yes/ No	Proposed project cause any social issue? Yes/ No	suggestions for the proposed project Yes/ No (if Yes provide details)	Signature
1)	Renuka Mallik Sankarshi Nagar Byadgi	70263 60069	Discusses about the Leakage from the water main line	Yes	No	No	
2)	Ajitha Nehru Nagar Byadgi	81050 50188	Discusses about the water supply the fixing properly	Yes	No	No	

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AMT
(SAFETY GUARD)



John
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Environment Safeguards Training- Note

ENVIRONMENT, HEALTH & SAFETY ISSUES AND ENVIRONMENTAL SAFEGUARDS – SHORT-TERM TRAINING-CUM-AWARENESS PROGRAMME ON OHS WITH CONTRACTORS, RESIDENT ENGINEERS OF CONSULTANTS AND CONCERNED ENGINEERS OF PIU – KARNATAKA INTEGRATED URBAN WATER MANAGEMENT INVESTMENT PROGRAM (KIUWMIP)

A Short-Term Training-Cum-Awareness Programme was organized at City Corporation Zonal Office Building, Davanagere on 16-12-2019. The emphasis of the Training programme was on Occupational Health and Safety issues at work sites, Safeguard measures and its implementation in the Sub-Projects of Tranche-1-KIUWMIP- Karnataka Water Supply Project

The Training programme was focused on safeguard compliance issues and proper implementation of Environmental Management Plan (EMP)

All Asst. Engineers of PIUs, RPMU, all resident engineers from all working sites of the Consultant, all Safety Officers of the Contractor agencies are participated in the Training Programme.

The issues discussed like,

- The Timely implementation of the EMP
- Compliances for the various statutory consents/permits like Labour License, Workmen Compensation Policy, PUC Certificates, other departmental clearances like Railways, National Highways, State Highways, PWD Roads, etc.
- The various aspects of Occupational (O), Health (H) and Safety (S)
- EHS Challenges that arise from Workplace, Workforce, Management and how to meet them
- Personal Protective Equipment : Type of PPEs, responsibility of an employee-labour, Hierarchy of controls, Required Trainings to implement
- Present Status of the safety of all sites till date like PPEs, Barricading, Safety sign boards, safety hazards at working of Heavy Earth Moving Machineries, Work at Height, Electrical safety, Availability of the Fire extinguishers and its refilling, etc.
- Present Situation of the health related aspects at work sites till date like up keeping of labour camp, Separate kitchen facility, toilets, bathrooms, Health Check up camp, HIV-AIDS awareness camps, labour facilities at work sites, First aid box, etc.
- Present situation of the Environmental related issues at work sites till date like Housekeeping, solid waste management, air pollution, noise pollution, water pollution, Environmental monitoring of Air quality, Noise levels, Water quality as per IEE, environmental issues, its impacts and mitigation measures, etc.
- Identification and resolving of the repetitive Improper implementation of the Environment, health and safety related measures

- Unresolved issues
- Unsafe working condition and its impact
- Drawbacks if safety norms are not being followed
- Penalties for Work Related Safety Violations-Case studies
- Promoting contractors for good initiatives for solution of any safety related issues.
- Good initiatives taken by the contractors
- Strategy to face EHS challenges
- EHS implementation mechanism
- Safety as a Responsibility for AEs as a part of KUIDFC, RE as a part of Consultant, Safety Officer as a part of Contractor
- How to improve Health and Safety on Construction Sites-Reactive measures and Proactive measures
- Maintaining the various Registers as per requirements
- Social livelihood upliftment of labours, Public Consultations-Individual & Group, Gender issues, various social programmes, Community involvement in the Project.
- Clarifications regarding the Information dissemination for submission of Semi Annual EMP and its requirements
- Clarifications regarding the Information dissemination for submission of Semi Annual Social Safeguard Reports and its requirements
- The requirements of urgent issues need to be redressed immediately.

Environment, health & safety compliance requirement for contractor, supervisor Engineers is attached as **Annex 1**

Attendance sheet attached as **Annex 2**

Photos of the Training Programme as **Annex 3**

(Mahmad Raphiyoddin Shaphiyoddin Malik)
Environment Specialist PMCSC

Requirement of Environment Compliance

1.0 Instructions on Environment Safeguard Implementation application of EMP

- 1.1 Presence of environment-safety officer in contractor team
- 1.2 Setting up camp office with proper staying arrangement, sanitation facility, solid waste management facility and sufficient drinking water supply.
- 1.3 Implement good housekeeping practices at the construction camp, storage area and work site.
- 1.4 Removal / disposal of overburden/surplus earth/ stone, sludge materials at earliest without any accumulation at working sites .Proper disposal of other construction waste –Reuse in other projects. NOC needs to be obtained from the concerned authority before disposal of waste
- 1.5 Proper storage of construction materials - wastage of materials to be checked. Slope should be avoided
- 1.6 Felling of trees if any only after getting NOC
- 1.7 Scheduling of work without any social impact – movement of pedestrian (particularly during tourist/ festive seasons) or other disturbances etc.
- 1.8 Water sprinkling for arresting dust – particularly during dry period
- 1.9 Covering of materials carrying vehicles in case of transportation of wind- blown material like sand
- 1.10 Personnel safety of workforce – use of ear plugs (noise producing area), nose mask (dust producing area and sewer connection work), helmet, gloves, gumboots, shoes, safety belt (during work at height) etc. at working sites (as per site condition).
- 1.11 Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas
- 1.12 First aid boxes with required medicines with valid dates at all work sites, camp and site offices. Number should be sufficient
- 1.13 Drinking water facility at work site
- 1.14 Filling up trenches and restoration of road after pipe laying at earliest
- 1.15 Provide warning signs of hazardous working areas.
- 1.16 Proper storage of fuel outside of room. Non storage of petroleum product within office room, labour camp room and at public access area. Oil tray should be placed below storage drum. MSDS should be maintained at hazardous waste storage area.
- 1.17 Fire fighting facilities (Fire Extinguisher, sand bucket) at vulnerable work sites/ labour camp/ site office/ combustible material storage site. Regular checking of expiry date of firefighting equipment. Refilling immediately as per requirement. Supervisor should know how to use Fire Extinguisher
- 1.18 Regular maintenance of noise producing machinery
- 1.19 Implementation of traffic stop/diversion measures including use of safety tape- perfectly/ barricade/ caution board/ diversion board at working sites with proper diversion signage
- 1.20 Proper drainage of waste water/ rain water from working sites
- 1.21 At all working sites there should be a work display board which shows location and contact phone number of PIU, PMCSC and contractor's office and grievance redress cell and respective officers for registering public complain. Keep Grievance Redress register at Site office and PIU office for recording and addressing public complain
- 1.22 Display of all emergency contact number at site office/ storage depot

- 1.23 Ensure moving equipment is outfitted with audible back-up alarms
- 1.24 Rubber mat (ISI marked) at high voltage electrical switch board area. All electrical installation/ wire above the ground
- 1.25 Arrangement of sufficient light at night work location
- 1.26 Maintain chance find protocol for archeological objects
- 1.27 Non use of child labour below 14 yrs age
- 1.28 Carry out monitoring work during construction (air, water, noise) as per schedule EMP
- 1.29 Regular public consultation at all sensitive receptor within project influence area

2.0 Mandatory legal requirement from contractor

- 2.1 Valid workman compensation policy with sufficient coverage
- 2.2 Valid labour license with sufficient coverage
- 2.3 Availability of pollution under control (PUC) certificate for material carrying vehicles, equipments and machinery – Timely Renewal of PUC
- 2.4 No objection certificate from pollution control board for use of DG set (5 KVA and above capacity). Preferably use of green DG. For which no NOC is required.
- 2.5 Medical tie up with health institute
- 2.6 Health check up report for workers – at least 6 monthly

3.0 Contractor's Report submission schedule and components

3.1 Weekly report – Daily – Weekly filled format, induction training, tool box meeting with photo, site photo within Tuesday of every week- Soft copy

3.2 Monthly Report- Monthly report filled format, public consultation format, grievance register copy, accident/ first aid register copy, PUC certificate (in case of new vehicle, equipment) and other supporting documents within 6th date of the month- Soft and hard copy

3.2 Compliance report – As per requirement. Compliance against site observation of PMCSC, PMU

Monitoring format should be signed by PMCSC's Engineer after signature of safety officer of contractors. PIU's Engineer/ Monitoring person will sign before official submission of all monitoring format by contractor

ATTENDANCE SHEET

Short-Term Training-Cum-Awareness Programme on OHS in the Sub-Projects of
Tranche-1-KIUWMIP- Karnataka Water Supply Project

City Corporation Zonal Office Building, DAVANAGERE

Date : 16-12-2019

Sl. No	NAME	ORGANIZATION	DESIGNATION	MOBILE NO.	SIGNATURE
1	Mr. H. K. Kumar	HSSC	Safety Engg	990229482	[Signature]
2	Jagadeesha MR	EGIS	RE	9606071354	[Signature]
3	K.M. Umesh	KUIDFC	A-E	8277045847	[Signature]
4	VIGNESH . A S	SHRIRAMPZ	Safety Engg	9952596950	[Signature]
5	Sanoop Cy	Suez	HSE Manager	9636005160	[Signature]
6	etc Rajesh	Suez	HSE Eng	8106025332	[Signature]
7	Jalaluddin	Suez	Safety Officer	9902993300	[Signature]
8	M. Venkatesh Babu	EGIS	Social Resp. Specialist	9912070385	[Signature]
9	Mahmad R S. Malik	EGIS	Env. Specialist	9177390560	[Signature]
10	AVINASH H L	EGIS	RE	9531547415	[Signature]
11	V. C. Manigouda	EGIS RNR	RE	9738298501	[Signature]
12	S. B. Hadimani	KUIDFC	AE	9110254800	[Signature]
13	SHARANA BASAVA D	PIU Ranebenur VEOLIA	JE	9591504608	[Signature]
14	DEVARAJAPPA M.	KUIDFC-PIU HRR.	AE	7829800555	[Signature]
15	Amjad Khan	EGIS	RE	9164715606	[Signature]
16	Yateesh. M. J	EGIS	RE	9742560802	[Signature]
17	Manjunath. Budagath	PIU - Byadgi	A.E.	9880174404	[Signature]
18	Vijayakant Naik.	EGIS	C.S.C	9886501986	[Signature]
19					

Pictures of the Short-Term Training-Cum-Awareness Programme on OHS in the Sub-Projects of Tranche-1-KIUWMIP- Karnataka Water Supply Project







Sample filled Grievance Register

Davangere Water Supply DistributionMONTHLY REPORT ON GRIEVANCE REDDRESSAL

✓
 /LB: Davanagere city corporation (Urban Local Body)
 Davanagere
 Suez 24x7 Water Supply - Davanagere

Sl.No	Date	Name and address of the Complainer	Contact No	Complaint Details	Details of Action taken by Contractor/PIU/PMDC SC/ULB	Action taken Date	Remarks	Photograph of pre & post Action Taken
1.	9/12/19	Manjula. #675, 2nd stage SPS Nagar. Y. M. Narasimha	8970191628	UPVC water pipe damaged	Rectified.	9/12/2019		
2.	10/12/19	Renulsa. B. M. #737 Rajesh garden Rajavara Y. R. S. S. S.	9535039222	UPVC water pipe damaged	Rectified	10/12/2019		
3.	10/12/19	K. M. Eaddiga yyer. #667, 2nd stage SPS Nagar J. S. S.	9632176765	UPVC water pipe damaged	Rectified	10/12/2019		

Sl.No	Date	Name and address of the Complainer	Contact No	Complaint Details	Details of Action taken by Contractor/PIU/PMDC SC/ULB	Action taken Date	Remarks	Photograph of pre & post Action Taken
4.	11/12/19	Yashodamma. # 664 2nd stage SPS nagar. yashodamma	9206615327	UPVC water pipe damage	Rectified	11/12/19		
5.	11/12/19	Faizal Khan # 736 Rajeev garden Badli Faizal Khan	784707664	water pipe & VCD pipe damaged	Rectified	11/12/19		
6.	12/12/19	Shivakumari Sowmya # 672 2nd stage SPS Nagar Shivakumari	9380848518	UPVC water pipe	Rectified	12/12/19		
7.	12/12/19	K. Nagesh # 671 2nd stage SPS Nagar K. Nagesh	7406947706	UPVC water pipe	Rectified	12/12/19		

