

SOCIAL IMPACT ASSESSMENT STUDY REPORT  
FIRST DRAFT  
VYTTILA-PETTA (ROAD WIDENING) PROJECT



**KOCHI METRO RAIL LIMITED**

A joint venture of Govt. of India & Govt. of Kerala



SIA Unit



Rajagiri College of Social Sciences  
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**Abbreviation**

BPL	Below Poverty Line
BSES	Baseline Socio-Economic Study
FGD	Focus Group Discussion
LAO	Land Acquisition Officer
NGO	Non-Governmental Organization
PAA	Project Affected Area
PAF	Project Affected Family
PAP	Project Affected People
PDF	Project Displaced Family
PIC	Public Information Centre
RTFCTLARR	Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act
R&R	Rehabilitation and Resettlement
RRO	Resettlement and Rehabilitation Officer
SIA	Social Impact Assessment
SC	Scheduled Castes
ST	Scheduled Tribes

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## CHAPTER 1

### EXECUTIVE SUMMARY

#### 1.1. Introduction - Project and public purpose

KMRL (Kochi Metro Rail Limited) is a joint venture with equity participation of Govt of India and Govt of Kerala. A Special Purpose Vehicle (SPV) has been formed for implementation of the project. First phase of the project comprises the section between Aluva to Petta with fully elevated corridor for length of 25.612 km and a depot. This Mass Rapid Transit System (MRTS) facilitate people to have faster and comfortable movement within the corridor. There is a proposal to integrate all modes of transport to provide seamless mobility.

This report is of SIA conducted at 'Vytila-Petta Road Widening Project *affected area* of the Kochi Metro Rail Project. The project being divided into three reaches, Vytila-Petta is Reach 1, the southern end.

#### 1.2. Location

The project phases being divided into three reaches, Vytila-Petta, Petta-Thripunithura (Road Widening and Station. The SIA has been conducted at Vytila -Petta (Kunnara Park to Petta-1.5 km ) Road Widening Project . The affected area belongs to Poonithura Village in KanayannoorTaluk of Ernakulam District.

#### 1.3. Size and attributes of land acquisition

The proposed project will involve acquisition of 1.4723 hectare land. Out of the total land requirement 0.0600 hectare is government owned property and 1.4123 hectare is under private acquisition. The total area composition of affected families in which SIA study conducted comprised to 0.5460 hectare area of land.

#### 1.4. Social impacts

The proposed Road widening for Kochi Metro Rail Project shall require land for the implementation of the project. Acquisition of land shall happen to make affected families landless, houseless, and jobless in most of the cases. Therefore every effort has been made to keep land requirements to the barest minimum by realigning at critical cases.

<b>Acquisition of Land (in Ha)</b>	
Private Property (in Ha)	1.4123
Government Property (in Ha)	0.0600
<b>Impact on properties</b>	
Impact on Properties (no)	113
Total PAFs (no)	113
Total PAPs (no)	516
Total PDFs (no)	66
Titleholder (no)	56
Non Titleholder (no)	57

Loss of Residence (no)	3
Loss of Business (no)	82
Impact on Community Resources(no)	

### **1.5. Assessment of social costs and benefits**

Implementation of the project will cause for displacement of families whose properties are fully affected, also livelihood of families who will be relocated from the affected area. Conversely while looking through a wider and long term perspective the benefits to affected persons will be compensating and bringing development in economic and other aspects such as health, education, cultural etc.



## CHAPTER 2 DETAILED PROJECT DESCRIPTION

### 2.1. Background of the Project

KMRL (Kochi Metro Rail Limited) is a joint venture with equity participation of Govt. of India and Govt. of Kerala. A Special Purpose Vehicle (SPV) has been formed for implementation of the project. First phase of the project comprises the section between Aluva to Petta with fully elevated corridor for length of 25.612 km and a depot. This Mass Rapid Transit System (MRTS) facilitate people to have faster and comfortable movement within the corridor. There is a proposal to integrate all modes of transport to provide seamless mobility. This report is of SIA conducted at 'Vytila-Petta Road Widening Project *affected area* of the Kochi Metro Rail Project. The project being divided into three reaches, Vytila-Petta is Reach 1, the southern end

The project phases being divided into three reaches, Vytila-Petta, Petta-Thripunithura (Road Widening and Station. The SIA has been conducted at Vytila -Petta (Kunnara Park to Petta-1.5 km ) Road Widening Project . The affected area belongs to Poonithura Village in KanayannoorTaluk of Ernakulam District.

### 2.2. Details of Project

Project: - Widening of Vytilla – Petta Road

Urbanization of Kochi City is spreading rapidly at fast pace. Due to progressive increase in vehicles and vehicular movement, the roads of Kochi city is hardly catering the traffic smoothly especially in main roads. These led to many adverse impacts in different parameters in terms of time, maintains of road, pollution etc. Vytilla – Petta stretch is one of the main road, witness high rage of mixed traffic flow daily towards Kochi city and Vis- versa. Hence through expert studies conducted by the consultants deployed by Kochi Metro rail Ltd, the first phase of the metro corridor will be passing through this road, in the form of Mass Rapid Transport system for the public. This Mass Rapid Transit System (MRTS) will facilitate people to have faster and comfortable movement within the corridor. There is a proposal to integrate all modes of transport to provide seamless mobility.

Since the study relives that the agglomeration of vehicles on this road may not be controlled just by providing MRTS service but other options to alleviate the traffic through road should be adopted by widening the existing road to four lane road after constructing the metro corridor.

Project detail:

Nearly 23 meters land is proposed to acquire for the widening of Vytilla – Petta road along the metro alignment. It consists of dedicated pre cast duct and drain on either side of the road with defined foot path for the pedestrians. All the utility cables are proposed to lay through the ducts. All 11KV overhead lines are converted into UG cables.

*Social Impact Assessment for proposed Kochi Metro Rail Project (Vytila-PettaRoad widening)*

The road is designed as per relevant IRC codes and MORTH Specifications. The road is constructed, layer wise, with a series of course, starting from Granular sub Base (GSB) as sub- base course, Water Mix Macadam (WMM) as base course and Dense Bituminous Macadam (DBM) & Bituminous Concrete (BC) as bituminous course. With high control on Quality the road is design to meet the status of International level. The work force is equipped with Modern machineries and planned man power in various range in terms of skilled, semi- skilled and un-skilled labours. Approximately 138 work force per day for a period of 2 years have to be employed at different levels for this project and the total budget for civil work is nearly 12.5 Cr.

In connection to the land acquisition, there are structures falling under the acquisition, which have to be demolished for the widening. All these structures are of mixed type buildings. There are commercial buildings, residential buildings and other miscellaneous structures like compound wall, well or fencing etc.

**Workforce Requirements:** Approximately 138 work force per day for a period of 2 years have to be employed at different levels for this project and the total budget for civil work is nearly 12.5 Crore.

## CHAPTER 3

### SOCIAL IMPACT ASSESSMENT UNIT

As per the Notification No.A5-1355/2016 dated 20.12.2016, Ernakulam District Administration has selected RAJAGIRI outREACH as the SIA Unit to study the Social Impact Assessment in the area of Road Widening of Vyttila –Petta for Kochi Metro Rail Project.

#### **3.1. Details of Team Members**

The study team is headed by Project Director of RAJAGIRI outREACH who is the Chairman of SIA Unit. A team of 15 members having experience in conducting social impact assessment study and socio economic surveys were assigned for field level data collection, monitoring of data collection and co-ordination of the study. The service of gender expert, consultants from development sector and law was also utilized in conducting the study and preparation of the report. Representatives from Revenue Authority also supported the investigators to identify the affected families.

#### **3.2. Methodology and Tools**

The study was conducted in the Project Affected Area of Vyttila-Petta Road ( Kunnara Park to Petta). The study covered all the Project Affected Families except the land owners and tenants who were not available at the time of data collection. The respondents were land owners, residential and commercial tenants and encroachers. Quantitative and Qualitative Methods were applied for collecting data. Quantitative Data was collected by Census Survey Method using a structured questionnaire.

Qualitative data was collected through Focus Group Discussions (FGD) and Key Informant Interviews with various stakeholders including VyapariVyavasayi representatives, women who were losing their livelihood, representatives of land owners etc. FGDs and Key Informant Interviews were conducted using FGD Guideline and Semi Structured Interview Guidelines respectively.

#### **3.3 Sampling Methods**

The census study method was used for collection of data. The study covered all the Project Affected Families except the land owners and tenants who were not available at the time of data collection. The respondents were land owners, residential and commercial tenants and encroachers.

#### **Overview of information**

The sources of data used are primary, i.e., census study method and secondary, data from Revenue Dept, Government of Kerala.

### 3.3 Schedule of Activities

Date	Activity
24.12.2016	Official Announcement of the study by the District Collector
26.12.2016 to 01.01.2017	Data Collection Tools Preparation
27.12.2016	Pilot Study, Verification of Information from Special Tahsasildar office (LA) ( Vyttila)
02.01.2017	Pretest of Tools
03.01.2017	Orientation for SIA Team members
04.01.2017 to 07.01.2017	Door to Door Survey in the Project Affected Area
09.01.2017 to 10.01.2017	Sorting of Data Sheets
09.01.2017 to 12.01.2017	Data Entry
11.01.2017 &12.01.2017	Focus Group Discussion and Key Informant Interviews with stakeholders
10.01.2017 to 11.01.2017	Verification of Land Records at LA Office and the collected data in the study
12.01.2017 to 16.01,2017	Data Tabulation, Analysis, Report Preparation
16.01.2017	Submission of First Draft of SIA Report

## CHAPTER 4

### LAND ASSESSMENT

#### Introduction

This chapter consist of data with respect to the area affected, land requirement for the project, previous transactions take place and pattern of the land/property use.

#### 4.1.Information about affected area

**Table 4.1 Impacts on Area with type of property**

Type of property	Frequency	Percent
Land	18	15.9
Structure	79	69.9
Both	16	14.2
Total	113	100.0

Table 4.1 reveals that 18 land holdings, 79 structures and 16 properties comprising both structure and land are affected by the project implementation. Among the total properties 69.9 comprise structures being affected by the project.

#### 4.2 Area of impact

**Table 4.2 Extent of Impact on Property**

Description	Frequency	Percent
Fully	66	58.4
Partially	45	39.8
Information not revealed	2	1.8
Total	113	100.0

The data from Table 4.2 shows the magnitude of the impact on property i.e., among the 113 properties affected, 66 are fully affected whereas 45 are partially affected and 2 informants were either not conscious about the same or not willing to reveal the information.

**Table 4.3 Typology of Structure**

Roof		Wall		Floor		Boundary	
Concrete	49	Brick	91	Concrete	73	Brick	27
Tile	19	Wood	1	Tiles	17	Wood	1
GI/ Asbestos	20	Mud	1	Marble/Granite	1	Others	4
Others	8	Asbestos	1	Wood	1	Nil	81
Not applicable	17	Others	2	Others	4		
		Not applicable	17	Not applicable	17		
Total	113	Total	113	Total	113	Total	113

Table 4.3 reveals the typology pattern of the structures which are affected by the project. 49 structures are built with concrete roof, 91 uses brick and mortar for building walls, 73 uses concrete for floor while 27 structures are situated in a brick made boundary wall.

**Table 4.4 Type of Construction**

Construction type	Frequency	Percent
Kutchra	0	0
Pucca	44	38.9
Semi-pucca	48	42.4
Temporary	4	3.5
Not applicable	16	14.2
Information not revealed	1	0.9
Total	113	100.0

Table 4.4 reveals that among the total 113 families 44 resides / operates in pucca type of construction while 48 resides/ operates in semi-pucca buildings.

**Table 4.5 Impact on Livelihood of Project Affected Families**

Description	Frequency	Percent
Livelihood affected families	82	72.6
Livelihood not affected families	27	23.9
Not applicable	1	0.9

No information revealed	3	2.7
Total	113	100.0

Table 4.5 shows that 82 families opinioned that their livelihood is affected by the project whereas 27 families' livelihood is not affected by the project and the property belongs to religious institution are not taken consideration under the 'livelihood' title.

**Table 4.6 Impact on Livelihood of Project Affected Persons**

No of members affected	Frequency	Percent
1-2	33	29.2
3-4	22	19.5
5-6	13	11.5
6 and above	14	12.4
Not applicable	28	24.7
No information revealed	3	2.7
Total	113	100.0

Table 4.6 shows the distribution of families according to the number of members affected in each family. 33 families comprises 1 to 2 members affected, 22 families comprises 3 to 4. Among the total 113 families ,14 families has 6 or more members affected by the project.

**Table 4.7 Impact on Livelihood with type of sectors**

Sector	Frequency	Percent
Private sector	4	3.5
Business / store/ establishment	69	61.1
Small Scale Industries	2	1.8
Others	7	6.2
Not applicable	28	24.8
No information revealed	3	2.7
Total	113	100.0

Table 4.7 indicates the sector wise impact on livelihood among the families. 61 percent, i.e., 69 families are engaged in commerce/trade, 4 families engaged in private sector and 2 families engaged in small scale industries.

### 4.3 Land requirement for the project

The proposed Road widening for Kochi Metro Rail Project shall require land for the implementation of the project. Acquisition of land shall happen to make affected families landless, houseless, and jobless in most of the cases. Therefore every effort has been made to keep land requirements to the barest minimum by realigning at critical cases.

**Table 4.8 Land requirement for the project**

Ownership	Acquisition of Land (in Hectare)
Private Property (in Hectare)	1.4123
Government Property (in Hectare)	0.0600

(Source : Special Tehsildar Office,(LA) Vyttila, Govt of Kerala)

Table 4.8 reveals that the proposed project will involve acquisition of 1.4723 hectare land. Out of the total land requirement 0.0600 hectare is government owned property and 1.4123 hectare is under private acquisition. The total area composition of affected families in which SIA study conducted comprised to 0.5460 hectare area of land.

### 4.4.Previous transactions (related to any project)

As per the information given by the respondents, no transactions had been taken place in the affected area for the last three years.

#### Agricultural use

Among the total affected area there exist no agricultural used land. The major share of area is used for residential purpose or commercial purpose.

### 4.6.Residential pattern

The affected area is a commercial centered area in which number of residents are low and commercial users are high in number. Among the residential properties, individual dwellings only exist and no apartments or housing colonies exist in the area.

**Table 4.9 Impact on Properties**

Type of Property	Owner	Tenant (residential)	Tenant (commercial)	Total
Residential	16	0	0	16
Commercial	27	0	56	83
Residential cum commercial	1	0	1	2
PHC/ Hospital/ Dispensary	1	0	0	1
Open land	10	0	0	10



Religious	1	0	0	1
Total	56	0	57	113

Table 4.9 indicates the impact on various types of properties, 16 properties are used for residential purpose whereas 83 among the total of 113 properties are used for commercial purpose. Among the 83 commercial properties 27 possessed by owner themselves and 55 properties are leased. The property affected includes a PHC/ Hospital/Dispensary and 1 property are owned by religious institutions.

#### **4.7. Transactions of previous 3 years**

There has not been taken place any transactions in the properties in the affected area for the last three years.

## CHAPTER 5

### ESTIMATION AND ENUMERATION

#### **Introduction**

This chapter comprise of scale of impact on families i.e., directly affected families and indirectly affected families. It also mention about the loss of inventory in the affected.

#### **5.4. Directly affected**

**Table 5.1 Category of Affected Families**

Description		Frequency	Percent
Directly affected	Owner	56	49.6
	Tenant (commercial)	57	50.4
Indirectly affected	Tenant (residential)	0	0.0
Total		113	100.0

Table 5.1 shows that 56 families, who own the property in the project affected area, are directly affected by the project whereas 50.4 percent, i.e., 57 project affected families who lease properties for commercial purpose are indirectly affected by the project.

**Table 5.2 Duration of possession/owning/ leasing on property**

Type of family	Duration of possession / owning/ lease of property				Total
	1-2 year	2-3 year	More than 3 years	Information not revealed	
Owner	0	0	55	1	56
Tenant (commercial)	2	1	54	0	57
Total	2	1	109	1	113

Table 5.2 indicates that among the total owners who resides/ operates in the property, 55 families possess the ownership more than three years and 54 families among the total of 57 tenants, operates in the property for more than three years.

**Table 5.3 Nature of Business**

<b>Nature of business</b>	<b>Frequency</b>	<b>Percent</b>
Sole proprietorship	71	62.8
Partnership	11	9.7
Company	1	0.9
Not applicable	29	25.7
Information not revealed	1	0.9
<b>Total</b>	<b>113</b>	<b>100.0</b>

Table 5.3 indicates the distribution of families engaged in business/ trade on the basis of nature of business. 71 families solely conduct business, 11 families engaged in business in partnership nature and 1 member is engaged business in company entity.

**Table 5.4 Employees working in Affected Area**

	<b>Total No of business units</b>	<b>No of business units (employees working more than 3 years)</b>
1-2	17	16
3-4	9	10
5 and above	14	12
Not applicable	70	70
Information not revealed	3	5
<b>Total</b>	<b>113</b>	<b>113</b>

Table 5.4 display the frequency of employees working in the affected area, and number of employees working for a period of not less than three years. 17 families provide engagement for 1 to 2 employees, 9 families provide 3 to 4 employment opportunity and 14 units provide employment for a group of not less than 5.

### **5.5.Indirectly impacted by project**

The population classified as indirectly affected by the project is those not directly affected by the acquisition of land but those living in the project area.

### **5.3. Inventory of productive assets**

There are 113 properties likely to be affected by the project. Among them 16 properties are used for residential purpose whereas 83 properties are used for commercial purpose. The affected area comprises 2 religious owned property and 1 health service dispensary.

## CHAPTER 6

### SOCIO-ECONOMIC PROFILE

#### Introduction

This chapter contains information about the socio economic and cultural aspects of the affected families. It includes the demographic details, economic status, vulnerability among the affected families, local economic activities in the area, livelihood affected details, socialization of the project affected persons and other related information.

#### 6.7. Demographic details

**Table 6.1 Family Pattern**

Family pattern	Frequency	Percent
Joint	43	38.1
Nuclear	68	60.2
Individual	1	0.9
Not applicable	1	0.9
Total	113	100.0

Table 6.1 indicates the family pattern of the affected families. 43 families are jointly residing whereas 68 families are of nuclear pattern.

**Table 6.2 Size of Family**

Size of family	Frequency	Percent
1-2	11	9.7
3-4	44	38.9
5-6	41	36.3
7 and above	16	14.2
Not applicable	1	0.9
Total	113	100.0

Table 6.2 shows the distribution of families based on size of family. 11 family members comprise 1 - 2 members, 44 families comprise 3 - 4 members, 41 families consist of 5 – 6 members and 16 families comprise 7 or more members in their family.

#### Table 6.3 Age Group

Gender	Age group						Total
	0-18	19-30	31-45	46-59	60 and above	Information not revealed	
Male	68	30	62	45	43	4	252
Female	56	47	63	41	56	1	264
Total	124	77	125	86	99	5	516

Table 6.3 shows the age-wise distribution of families subdivided on the basis of gender. 124 members are in the age group of 0-18 in which 68 are males and 56 are females. 125 members are aged between 31 and 45. 99 among the total of 516 members are aged 60 or above.

**Table 6.4 Religious Group**

Religion	Frequency	Percent
Hindu	48	42.5
Muslim	8	7.1
Christian	56	49.6
Not applicable	1	0.9
Total	113	100.0

Table 6.4 articulates that 48 families among the total of 113 are belonging to Hindu religion whereas 8 families belongs to Muslim religion and 56 families are following Christian religion.

**Table 6.5 Social Group**

Social group	Frequency	Percent
SC	2	1.8
ST	1	0.9
OBC	51	45.1
General	57	50.4
Others	1	0.9
Not Applicable	1	0.9
Total	113	100.0

Table 6.5 indicates that 45.1 percent, i.e., 51 families belongs to OBC, 2 families belongs to SC community whereas 1 family member belongs to ST community, 50.4 percent i.e., 57 families belongs to general community also.

### 6.8.Income and poverty level

**Table 6.6 Public Distribution System – Inclusion**

Particulars	Frequency	Percent
Families included in PDS	110	97.3
Families not included in PDS	1	0.9
Not Applicable	1	0.9
Information not revealed	1	0.9
Total	113	100.0

Table 6.6 shows the distribution of families based on the Public Distribution System. Among the total 113 of respondents 110 families are included in the system and possess a ration card of their own.

**Table 6.7 Classification of Families – PDS System**

Particulars	Frequency	Percent
BPL	15	13.3
APL	96	85
Not Applicable	1	0.9
Information not revealed	1	0.9
Total	113	100.0

Table 6.7 reveals that 15 families are Below Poverty Line whereas 85 percent i.e., 96 families are above the poverty line.

**Table 6.8 Family population – Electoral Voter’s Inclusion**

Particulars	Frequency	Percent
Families included in electoral voters' list	107	94.7
Families not included in electoral voters' list	3	2.7
Not Applicable	1	0.9

Information not available	2	1.8
Total	113	100.0

Table 6.8 indicates that 107 family members are included in the electoral voters list maintained by the state. 3 families are not included and two families were reluctant to respond to the inquiry.

**Table 6.9 Family Monthly Income**

Family monthly income	Frequency	Percent
Below 15000	27	23.9
15001-30000	32	28.3
30001-45000	23	20.4
45001-60000	6	5.3
More than 60001	21	18.6
Not applicable	1	0.9
Information not revealed	3	2.7
Total	113	100.0

Table 6.9 shows the distribution of families based on family monthly income earned. 27 families earn an amount of Rs.15000 or less, 32 families earns between 15 to 30 thousands. 21 families earn more than 60000 in a month.

**Table 6.10 Major Source of Income**

Sector	Frequency	Percent
Government sector employment	7	6.2
Private sector employment	19	16.8
Business	75	66.4
Self employed	5	4.4
Pension/Others	4	3.5
Not applicable	1	0.9
Information not revealed	2	1.8
Total	113	100.0

Table 6.10 shows the major source of income of the affected families. 75 families are engaged in commerce/trade sector for their livelihood while 7 families are employed in government owned sectors and 19 are employed in private sector. 4 members live by means of pension whereas 5 among the total affected families engaged in self-employment for their livelihood.

**Table 6.11 Earning Members**

No of earning members	Frequency	Percent
01	55	48.7
02	35	31.0
03	12	10.6
04	3	2.7
05 and above	2	1.8
Nil	4	3.5
Information not revealed	1	0.9
Not applicable	1	0.9
Total	113	100.0

Table 6.11 shows the distribution of families based on the frequency of earning members in the family. 55 families, i.e., 48.7 percent of the total families depends on a single earning member, while 35 members are depending on two earning members and 12 families comprises of 3 earning members.

**Table 6.12 Dependent Members**

No of dependents	Frequency	Percent
1	24	21.2
2	20	17.7
3	22	19.5
4	15	13.3
5 and above	25	22.1
Nil	5	4.4
Information not revealed	1	0.9
Not applicable	1	0.9
Total	113	100.0



Table 6.12 reveals that 25 families comprise of 5 or more dependents in their families whereas 15 families consists of 4 dependents in their families. 24 families comprise of a single dependent in their families.

**Table 6.13 Family Monthly Expenditure**

<b>Family monthly expenditure</b>	<b>Frequency</b>	<b>Percent</b>
Below 10000	29	25.7
10001-20000	30	26.5
20001-30000	23	20.4
30001-40000	11	9.7
Above 40001	14	12.4
Not applicable	3	2.7
Information not revealed	3	2.7
<b>Total</b>	<b>113</b>	<b>100.0</b>

Table 6.13 shows the distribution of families based on the family monthly expenditure. 29 families spent an amount less than Rs.10000, 30 families consume for an amount between 10-20 thousand whereas 23 families expend 20-30 thousand every month.

### **6.3.Vulnerable groups**

**Table 6.14 Vulnerable Population**

<b>Description</b>	<b>No of individuals/families</b>
Women	204
Children	128
Elderly	99
Women Headed Households	26
Scheduled Caste Families	2
Scheduled Tribe Families	1
Below Poverty Line Families	15
Chronically ill Persons	29
Physically Challenged Persons	2

Table 6.14 indicates the frequency of vulnerable groups based on the vulnerability determining aspects. Among the total 516 Project Affected Population, 204 women, 128 children and 99 elderly persons are included. The table also shows 26 women headed

families, 2 families belongs to Scheduled caste and 1 family belongs to Scheduled tribe can be considered as vulnerable population. In addition, 15 families below poverty line and 29 individuals suffering chronic illness are also categorized as vulnerable population.

#### **6.4.Land use and livelihood**

The affected area comprises of residential area as well as commercial area. 83 out of 113 properties are used for commercial uses, in which the members run various business/trade. Livelihood of not only the families running businesses rather the employees working are also affected by the project.

#### **6.5.Local economic activities**

The affected population is engaged in various types of economic activities in the affected area, which is being tabulated and mentioned in Table 6.4

**Table 6.15 Project Affected Families based on Type of Business**

<b>Type of business</b>	<b>Frequency</b>	<b>Percent</b>
Tea stall	7	6.2
Grocery/ general store	8	7.1
Vegetables/ fruits	1	0.9
Pan/ cigarette shop	2	1.8
Automobile garage	4	3.5
Educational institution	1	0.9
Hotel restaurant	4	3.5
Electrical shop	1	0.9
Furniture shop	4	3.5
Video parlour/ Internet cafe	1	0.9
Bakery/confectionary	2	1.8
Butcher/Meat/Fish	2	1.8
Barber shop	1	0.9
Photocopy service	1	0.9
Others	43	38.1
Not applicable	31	27.5
<b>Total</b>	<b>113</b>	<b>100.0</b>

Table 6.15 shows the distribution of families on the basis of type of business carried out. 8 groceries shop/ general stores, 7 Tea stall, 4 restaurants, 4 automobile garages and 4 furniture shops functions in the area.

### 6.6.Factors that contribute to local livelihoods

The affected area comprises of fish market (Champakkara Fish Market) in which 40 business entities functions. The same pave for livelihood of 100 persons within the market. Among the employees, many female members are also working. The same provides opportunity for women members in the society to earn a reasonable wages by working in the business units in the market. (Nu)

**Table 6.16 Credit Accessibility**

Particulars	Frequency	Percent
Families having access to credit	70	61.9
Families not having access to credit	37	32.7
Not applicable	1	0.9
Information not revealed	5	4.4
Total	113	100.0

Table 6.16 shows that 70 families have the ability to acquire credit facilities for meeting their demand, whereas 37 families says that they do not have the access to credit facilities.

**Table 6.17 Source of Availing Credit**

Sector	Frequency	Percent
Public sector bank	45	39.8
Private sector bank	9	8.0
Micro finance companies	2	1.8
Private money lenders	3	2.7
Cooperative bank	11	9.7
Not applicable	38	33.6
Information not revealed	5	4.4
Total	113	100.0

Table 6.17 shows the distribution of families based on the source of accessing credit for their demands. 39.8 percent i.e., 45 families approach public sector bank for credit accessing while cooperative banks and private sector banks are accessed by 11 and 9 families respectively.

**Table 6.18 Membership in Associations/ Organisations**

Particulars	Frequency	Percent
NHG/ Kudumbasree	10	8.8
SHG	1	.9
Residential association	31	27.4
Religious group	17	15.0
Clubs/ cultural organisation	1	.9
Others	5	4.4
Nil	46	40.7
Information not revealed	2	1.8
Total	113	100.0

Table 6.18 indicates that 31 families are members in residential association in their areas whereas 10 families are members of NHG/Kudumbasree association and 17 families are part of religious groups.

**Table 6.19 Membership in Civic Associations**

Particulars	Frequency	Percent
NGOs/Not for Profit Organisation	1	.9
Social Movements	3	2.7
Political party	16	14.2
Nil	91	80.5
Information not revealed	2	1.8
Total	113	100.0

Table 6.19 indicates that 16 families are part of political parties while 3 families took part of social movements in their area.

**Table 6.20 Gender and Sex Ratio**

<b>Description</b>	<b>Male</b>	<b>Female</b>
Head of the family	86	26
Total No of Project Affected Persons	255	261

Table 6.20 shows that 26 families are headed by female while 86 by males. The total number of males among the project affected persons are 255 while females are 261.

**Table 6.21 Marital status of Project Affected Persons**

<b>Marital status</b>	<b>Frequency</b>	<b>Percent</b>
Married	299	57.9
Unmarried	180	34.9
Divorced	1	.2
Widow/widower	33	6.4
Information not revealed	3	0.6
Total	516	100.0

Table 6.21 shows that 57.9 percent i.e., 299 members are married whereas 180 members are unmarried, 33 widow/widower and 1 member divorced.

**Table 6.22 Educational Attainment of Project Affected Persons**

<b>Educational attainment</b>	<b>Frequency</b>	<b>Percent</b>
Illiterate	9	1.7
Primary	97	18.8
Secondary	205	39.7
Higher Graduate	165	32.0
Technical	25	4.8
Vocational	4	0.8
Information not revealed	7	1.4
Not applicable (infant)	4	0.8
Total	516	100.0

Table 6.22 reveals the distribution of project affected persons based on educational attainment. 39.7 percent, i.e., 205 members attained secondary school education, 165 higher graduate and 97 members attained primary school education.

**Table 6.23 Employment Status of Project Affected Persons**

<b>Description</b>	<b>Frequency</b>	<b>Percent</b>
Employed	186	36.0
Unemployed	318	61.6
Information not revealed	12	2.3
<b>Total</b>	<b>516</b>	<b>100.0</b>

Table 6.23 shows the employment statuses of the project affected persons, i.e., 186 are employed while 61.6 percent (318) members are unemployed.

**Table 6.24 Occupational Pattern of Project Affected Persons**

<b>Occupation</b>	<b>Frequency</b>	<b>Percent</b>
Artisans	6	1.2
Labour	21	4.1
Business/trade	109	21.1
Government Sector	11	2.1
Others	39	7.6
NA	318	61.6
Information not revealed	12	2.3
<b>Total</b>	<b>516</b>	<b>100.0</b>

Table 6.24 shows the occupational pattern of the project affected persons. 109 members are engaged in business/trade whereas 21 members are engaged in labour activities. 11 members are employed in Government sector and 6 members engaged in artisan works for their livelihood.

**Table 6.25 Non-working Status of Project Affected Persons**

<b>Non-working Status</b>	<b>Frequency</b>	<b>Percent</b>
No work available	6	1.2

Seasonal activity	4	0.8
Household family duties	97	18.8
Old	53	10.3
Differently abled	9	1.7
Student	141	27.3
Young	4	0.8
Others	4	0.8
NA	186	36.0
Information not revealed	12	2.3
Total	516	100.0

Table 6.25 indicates the various non-working status of the project affected persons. 141 members are not employed since they are engaged in pursuing education. 97 members are engaged in household activities and 53 members are retired/ old aged thus not engaged in any economic activity.

**Table 6.26 Monthly Income of Project Affected Persons**

<b>Project Affected Persons' Monthly Income</b>	<b>Frequency</b>	<b>Percent</b>
Below 5000	17	3.3
5001-15000	61	11.8
15001-25000	42	8.1
25001-35000	20	3.9
Above 35001	40	7.8
Not applicable	319	61.8
Information not revealed	17	3.3
Total	516	100.0

Table 6.26 reveals the distribution of project affected persons based on monthly income earned. 61 members Rs.5,000-15,000 while 42 members earn 15,000-25,000 in a month. Among the total 516 members, 40 members earn above Rs.35,001 in a month.

**Table 6.27 Health status of Project Affected Persons**

<b>Major diseases affected</b>	<b>Frequency</b>	<b>Percent</b>
Chronic illness/ Differently abled	29	
Physically Challenged	2	
No Serious Health problems	485	94
Total	516	100

Table 6.27 shows the health status of the project affected persons. 485 members have no serious health problem while 31 members suffer from a chronic illness/ differently abled.

**Table 6.28 Distance to workplace of Project Affected Persons**

<b>Distance from residence to workplace (in KMs)</b>	<b>Frequency</b>	<b>Percent</b>
Less than 1	71	13.8
1-3	33	6.4
3-7	31	6.0
7-11	9	1.7
11-15	4	.8
More than 15	19	3.7
Not applicable	341	66.1
Information not revealed	8	1.6
Total	516	100.0

Table 6.28 shows the distance commuted by project affected members for reaching their work places. 71 members travels a distance not more than 1 km while 33 members commutes a distance between 1-3 kms and 31 members travels a distance between 3-7 kms to workplace.



## CHAPTER 7

### SOCIAL IMPACT

#### 7.1. Framework and approaches

The socio-economic impact assessment of the affected families/persons was carried out through a pre-tested questionnaire. The questionnaire (Annexure \_) included the following sections which captured the socio-economic profile of each family, namely

1. Identification of the affected family
2. Asset details in the affected area
3. Extent of assets affected
4. Identification of vulnerable population
5. Family profile – list of family members, gender, age, marital status, educational attainment, employment status, occupational pattern, non-working status, health status and others.
6. Other information about income and expenditure of families
7. Economical activities in the affected area

#### 7.2. Impact – stagewise

##### Directly affected

Description	Impact
Immovable asset	66 families
Livelihood	82 families
Health	Loss of 1 dispensary

Residential properties of 3 families are fully affected, might be displaced from the existing dwelling, which is a direct impact by the project

Livelihoods of 82 families are affected by the implementation of the project. These population, most of them carries out business/trade in the affected area, who will be relocated from the existing business centre.

Employees are the another category who will be affected by the project.

##### Indirectly affected

Indirectly affected are those population who are residing in the area on lease and who will be relocated from the existing dwelling.

### 7.3. Indicative list of impacts

- **Impacts on land**

Land /properties of 113 families are affected which will comprise to a 1.4723 heactare area in total.

- **Livelihoods and income**

Livelihood of the families carries out business, employees working over there and other related persons

- **Physical resources**

Land acquisition includes fish market partially which will lead to dilemma in the business units, their families and the employees working in the business entities.

- **Public services and utilities**

The project affects 1 wayside chapel, land belongs to a temple and commercial property belongs to St.James Church Poonithara

- **Health**

The project will affect a private clinic functioning in the affected area. Another aspect of health impact is the health hazardable issues due to the strucutre construction and related aspects.

### Major findings

- ❖ 18 land holdings, 79 structures and 16 properties comprising both structure and land are affected the acquisition. Among the total properties 69.9 percent comprise structures being affected by the project.
- ❖ Among the 113 properties affected, 66 are fully affected whereas 45 are partially affected.
- ❖ Among the affected families, 44 reside / operate in pucca type of construction while 48 resides/ operates in semi-pucca buildings.
- ❖ 67 families opinioned that their livelihood is affected by the project whereas 27 families' livelihood is not affected by the project.
- ❖ 33 families comprises 1 to 2 members affected, 22 families comprises 3 to 4. Among the total 113 families, 14 families have 6 or more members affected by the project.
- ❖ Among the livelihood affected families, 69 families are engaged in commerce/trade, 4 families engaged in private sector and 2 families engaged in small scale industries.
- ❖ The proposed project will involve acquisition of 1.4723 hectare land. Out of the total land requirement 0.0600 hectare is government owned property and 1.4123 hectare is under private ownership. The total area composition of affected families in which SIA study conducted comprised to 0.5460 hectare area of land.
- ❖ No land/property transactions had been taken place in the affected area for the last three years.
- ❖ Among the residential properties, individual dwellings only exist and there exist no apartments or housing colonies in the area.
- ❖ Impact on Properties: 16 properties are used for residential purpose whereas 83 among the total of 113 properties are used for commercial purpose. Among the 83 commercial properties 27 possessed by owner themselves and 55 properties are leased. The property affected includes a health service clinic and 1 property is owned by religious institution.
- ❖ 46 families, who own the property in the project affected area (loosing place of residence) and 54 project affected families who lease properties for commercial purpose are directly affected by the project. The population classified as indirectly affected by the project is those not directly affected by the acquisition of land but those living in the project area. The study couldn't meet any residential tenants during the period of study, but there are few residential tenants residing in the affected area.
- ❖ Among the total owners who resides/ operates in the property, 55 families possess the ownership more than three years and 54 families among the total of 57 tenants, operates in the property for more than three years.
- ❖ Among the 83 business units, 71 families solely conduct business, 11 families engaged in business in partnership nature and 1 member is engaged business in company entity.
- ❖ Employees working in the area who are likely to loose their primary source of livelihood and working in the area for the last three years prior to the SIA

notification are also considered as affected persons. 17 families provide engagement for 1 to 2 employees, 9 families provide 3 to 4 employment opportunity and 14 units provide employment for a group of not less than 5.

- ❖ There are 113 properties likely to be affected by the project. Among them 16 properties are used for residential purpose whereas 83 properties are used for commercial purpose. The affected area comprises 2 religious owned properties and 1 clinic.
- ❖ 43 families are jointly residing whereas 68 families are of nuclear pattern.
- ❖ Among the total population, 124 members are in the age group of 0-18years in which 68 are males and 56 are females. 125 members are aged between 31 and 45. 99 among the total of 516 members are aged 60years or above.

*Note: The above figures are arrived as per the information given by the respondents only. The same is subject to sufficient documental evidence only.*



Affected Property



Affected Structure



Livelihood Activity in the affected area



Survey 1



Survey 2

Annexure 1Socio Economic Survey for Social Impact Assessment – Road widening for Kochi Metro

Interviewer's Name	
Survey Date	
Supervisor Name	
Respondent's name (specify relationship with head of the family)	
Address	
Contact (Landline No)	
Contact No (Mobile No)	
Identity Card Details (any one id proof)	
Aadhaar No	
Ration Card No	
Passport No	
Voters Id	

Rail Project – Vyttila-Petta, Ernakulam District

<b>Q.1</b> Identification	City/Town	
	Place/ Location	
	Division / Ward No	

**Q.2** Respondent

Owner	1	Tenant (resident)	2	Tenant (commercial use)	3
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**ASSET DETAILS****Q.3** Type of use

Residential	1	Commercial	2	Residential cum commercial	3
Under Construction	4	Agriculture	5	PHC/Hospital/Dispensary	6
School	7	Industrial	8	Open land/property	9
Trust	10	Religious	11	Community utility	12
Govt land	13	Others (specify) _____	99		

**Q. 4** Type of property

Land	1	Structure	2	Both	3
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**Q.5** Owned by

Private	1	Govt	2	Public sector	3
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**Q.6 Possession of the property**

Owner	1	Leased	2	Encroacher	3
Squatter	4	Kiosk	5	Others (specify) _____	6

<b>Q.7 Name of title holder of the property</b>		
Relationship with family head		
Acquisition by	Hereditary	1
	Purchase	2
	Encroached/squatter	3
	Others (specify) _____	4
Date of acquiring of the property ( <i>approx period</i> )		
Details of transactions made on the property within the last three years		

**Q.8 Details of owner**

Name	
Address	
Contact No	
If Tenant( both commercial/resident)	
Monthly rent	
Rental agreement details (including date of document preparation)	
Last rental receipt details (including rent/lease amount)	
Total duration of staying	

**Q.9 Occupant's (Tenant) name**

Name	
Address	
Land Mark	
Contact No	
<i>Identity Card Details (any one id proof)</i>	
Aadhaar Id	
Ration Card No	
Passport No	
Voters Id	

**Q.10 Since how long you have been residing or operating from this structure**

Less than 1 year	1	1-2 year	2	2-3 years	3
More than 3 years	4				

**IMPACT**

<b>Q.11</b> Extent of acquisition	Fully	1	Partially	2
<b>Q.12</b> Whether property viable after implementation of	Yes	1	No	2

project				
<b>Q.13</b> Whether you will be displaced/relocated	Yes	1	No	2

**Q.14** Measurement of the land (in feet)

Length		Breadth		Area		Distance from centre of the existing road (reference point)
Total	Affected	Total	Affected	Total	Affected	

(Note: If length and breadth not available please mention area of acquisition)

**Q.15** Details/Measurement of the structure (in feet)

Age of structure	Length		Breadth		Area	
	Total	Affected	Total	Affected	Total	Affected
No of rooms						
Distance from the centre of the road						
What all structural changes are required in the structure (if any)						
What is the estimated total cost to be incurred to reconstruct structure/ repair damages						

Note: If more than one holding please mention in the additional sheet

**Q.16** Typology of the structure

Roof (R)		Wall (W)		Floor (F)		Boundary	
Concrete	1	Brick	1	Concrete	1	Brick	1
Thatched	2	Wood	2	Tiles	2	Barbed wire	2
Mud	3	Mud	3	Marble/granite	3	Wood	3
GI/ Asbestos	4	Asbestos	4	Wood	4	Others (specify)	9
Bamboo	5	Plastic	5	Others (specify)	9		
Others (specify)	9	Others (specify)	9				

<b>Q.17</b> Details of Affected Property: Construction type:	Kutcha	1	Pucca	2	Semi-pucca	3	Temporary	4
<b>Q.18</b> No of storey								
<b>Q.19</b> No of rooms								

**Q.20** Utilities in the property (in affected area)

SI No	Utilities	Total	Impacted	SI No	Utilities	Total	Impacted
1	Trees			8	Water supply pipeline		

2	Dug wells			9	Boundary wall		
3	Tube wells			10	Electricity pole		
4	Water tap			11	Telephone pole		
5	Water tank			12	OFC (Optical fiber cable)		
6	Hand pump			13	Under ground sewerage line		
7	Cattle shed			14	Others (specify)		

**Q.21** Income from other sources (affected area)

Income earning assets / resources in the land	Yes	No	Income earned per month
Kitchen garden	1	2	
Fruit bearing trees	1	2	
Livestock	1	2	
Small scale industry / home based manufacturing/trading	1	2	
Other (specify)	1	2	

**VULNERABILITY**

<b>Q.22</b> Do you have Ration card?	Yes	1	No	2	If Yes, Mention Number		
<b>Q.23</b> Type of Ration card	BPL	1	APL	2	AAY	3	
<b>Q.24</b> Are you a beneficiary of food security bill	Yes			1	No	2	
<b>Q.25</b> Whether included in voter list	Yes			1	No	2	
Additional Information (if any)							

**GENERAL INFORMATION**

<b>Q.26</b> Religious group	Hindu	1	Muslim	2	Christians	3	Jain	4	Others	9
<b>Q.27</b> Social Group	SC	1	ST	2	OBC	3	General	4	Others	9
<b>Q.28</b> Family Pattern	Joint			1	Nuclear	2	Individual			3
<b>Q.29</b> Size of Family/household (specify no of family members)										
<b>Q.30</b> Mother Tongue				<b>Q.31</b> Place of nativity						

**FAMILY MEMBERS - DETAILS**

<i>Member No</i>	1	2	3	4	5	6	7	
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<b>Q.31</b> Name (to be written vertically)								
	<b>Q.32</b> Relationship							(Relationship with head-code given below)

*Codes for relationship*

<i>Head of the household</i>	1	<i>Wife</i>	2	<i>Husband</i>	3	<i>Son</i>	4
<i>Daughter</i>	5	<i>Son in law</i>	6	<i>Daughter in law</i>	7	<i>Grandfather</i>	8
<i>Grandmother</i>	9	<i>Grandson</i>	10	<i>Grand daughter</i>	11	<i>Grandson in law</i>	12
<i>Grand daughter in law</i>	13	<i>Brother</i>	14	<i>Sister</i>	15	<i>Brother in law</i>	16
<i>Sister in law</i>	17	<i>Father</i>	18	<i>Mother</i>	19	<i>Father in law</i>	20
<i>Mother in law</i>	21	<i>Uncle</i>	22	<i>Aunt</i>	23	<i>Cousin</i>	24
<i>Nephew</i>	25	<i>Niece</i>	26	<i>Other (specify)</i>	26		

<i>Member No</i>	1	2	3	4	5	6	7	
<b>Q.33</b> Sex	1	1	1	1	1	1	1	Male
	2	2	2	2	2	2	2	Female
	3	3	3	3	3	3	3	Transgender
<b>Q.34</b> Age	1	1	1	1	1	1	1	0-18
	2	2	2	2	2	2	2	19-30
	3	3	3	3	3	3	3	31-45
	4	4	4	4	4	4	4	46-59
	5	5	5	5	5	5	5	60 and above
<b>Q.35</b> Marital status	1	1	1	1	1	1	1	Married
	2	2	2	2	2	2	2	Unmarried
	3	3	3	3	3	3	3	Divorced
	4	4	4	4	4	4	4	Separated
	5	5	5	5	5	5	5	Widow/widower
<b>Q.36</b> Education	1	1	1	1	1	1	1	Illiterate
	2	2	2	2	2	2	2	Primary class (5)
	3	3	3	3	3	3	3	Secondary class (10)
	4	4	4	4	4	4	4	Higher (graduate)
	5	5	5	5	5	5	5	Technical
	6	6	6	6	6	6	6	Vocational

<b>Q.37</b> Employed (If No, go to Q.39)	1	1	1	1	1	1	1	Yes
	2	2	2	2	2	2	2	No
<b>Q.38</b> Occupation	1	1	1	1	1	1	1	Artisans
	2	2	2	2	2	2	2	Labour
	3	3	3	3	3	3	3	Business/trade
	4	4	4	4	4	4	4	Govt service
	5	5	5	5	5	5	5	Maid servant
	9	9	9	9	9	9	9	Others
<b>Q.39</b> Non working status (give main reason)	1	1	1	1	1	1	1	No work unavailable
	2	2	2	2	2	2	2	Seasonal inactivity
	3	3	3	3	3	3	3	Household family Duties
	4	4	4	4	4	4	4	Old/Young
	5	5	5	5	5	5	5	Handicapped
	6	6	6	6	6	6	6	Student
	9	9	9	9	9	9	9	Others (specify)
<b>Q.40</b> Income								Individual income specify (per month)
<b>Q.41</b> Major diseases	1	1	1	1	1	1	1	Physical challenges
	2	2	2	2	2	2	2	Mentally retarded
	3	3	3	3	3	3	3	Cancer
	4	4	4	4	4	4	4	Asthma/Lungs dysfunction
	5	5	5	5	5	5	5	Others1(specify) _____
	6	6	6	6	6	6	6	Others2(specify) _____
<b>Q.42</b> Place of work								(Mention location of work)
<b>Q.43</b> Distance from place of work (in KM)								

**Q.44** Family income & source

Family monthly income		Source of income (Major source/ Head of the family)	Agriculture	1	
			Govt sector	2	
			Pvt Sector	3	
			Business	4	
			Self employed	5	
			Pension/Other	9	
No of adult earning members		No of dependents		Family monthly expenditure	
Do you have access to credit facilities	Yes		1	No	2
If yes, mention major source					
Public Sector Bank	1	Private Sector Bank	2	Micro Finance Companies	3

Private Money Lenders	4	Cooperative Bank	5	Hand loan	6
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**Q.45 Household assets**

TV	1	Refrigerator	2	Two wheeler	3
Four Wheeler	4	Telephone/Mob. Phone	5	Washing Machine	6
Food Processor/Mixer/Grinder	7	Computer/Laptop	8	Air Conditioner	9
Air Cooler	10	Microwave oven	11	Other (specify) _____	99

**Q.46 Access to utilities**

Electricity	1	LPG Gas connection	2	Piped water	3
Optical fiber network	4	Other (specify) _____	9		

**HEALTH****Q.47 Drinking water source**

Own well/tube well	1	Common pipe	2	Common well/pond	3
Tanker lorry	4	Pipe connection	5	Other (specify) _____	9

**Q.48 Water source (other than drinking water)**

Own well/tube well	1	Common pipe	2	Common well	3
Municipality supply	4	Pipe connection	5	Other (specify) _____	9

**Q.49 Toilet facility**

No toilet	1	Single pit	2	Double pit	3
Septic tank	4	Other (specify) _____	9		

**Q.50 Bathroom**

Attached to latrine	1	No bathroom	2	Common well	3
River/canal	4	Stream	5	Other (specify) _____	9

**Q.51 Which of the following you could easily access for health concerns**

PHC/CHC	1	Govt Hospital	2	Private hospital	3
Private practice Doctor/Clinic	4				

**ECONOMICAL ACTIVITIES IN AFFECTED AREA**

Commercial entity – details (if applicable)

<b>Q.52 Name of the Shop</b>				
<b>Q.53 Type of shop/Business Enterprise</b>	Sole Proprietorship			1

	Partnership	2		
	Company	3		
<b>Q.54</b> No of employees				
<b>Q.55</b> No of employees working since last three years				
<b>Q.56</b> Whether licensed by govt/concerned authority				
<b>Q.57</b> Date of incorporation				
<b>Q.58</b> If Commercial entity/business/trade whether you will wind up/ shut down due to this project implementation	Yes	1	No	2
<b>Q.59</b> In any manner, whether it will adversely affect your employee	Yes	1	No	2

**Q.60** Details of business

Tea stall	1	Jewelry shop	10	Sweet shop	19
Grocery/general store	2	Educational Institution	11	Butcher/Meat	20
Vegetables/Fruits	3	Hotel/Restaurant	12	Barber shop	21
Cloth/Garments	4	Electrical	13	Medicine shop	22
Tailor shop	5	Furniture	14	Wine shop	23
Pan/ Cigarette shop	6	Petrol Pump	15	STD/PCO/Mobile Recharge	24
Automobile Garage	7	Handicrafts	16	Photocopy service	25
Lubricant shop	8	Video Parlour/ Internet cafe	17	PDS	26
Departmental store	9	Bakery/Confectionary	18	Other (specify)	99

**Q.61** Employee details (if necessary, use additional sheets)

Sl No	Name	Age	Sex	Education	Avg Monthly Salary	Date of joining	Aadhaar No/ Valid Id No (Mention which id used)	Contact No

**SOCIAL ASPECTS****Q.62** Are you a member of any of the following associations/ civic organisations

NHG/Kudumbasree	1	SHG	2	Residential Association	3
Religious group (specify)	4	Clubs/ cultural	5	Other (specify)	9

		associations		_____	
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**Q.63** Are you a member/part of any:

NGOs/Not for profit organization	1	Social movements	2	Political party	3
If yes, please mention					
Name of organization/association					
Name of Head/Administrator					

Project Related Information

<b>Q.64</b> Are you aware of the proposed metro rail project	Yes	1	No	2
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**Q.65** If yes, source of information

Newspaper	1	Internet/social media	2	TV/ Media	3
Community members	4	Other (specify)	9		

**Q.66** What is the positive or other impacts envisaged from this project development

Positive impacts perceived		Other perceived impacts	
Increase in employment opportunities due to better access facilities	1	Loss of productive land for agriculture and own land for dwelling units	1
Increase in movement in terms of facility and frequency	2	Pressure on existing infrastructure	2
Increase in economic and business activities	3	More influx of outside population and loss of privacy	3
Increase in land prices	4	Conflict with outsiders	4
Improvement in the real estate sector	5	Increase in the density around the metro	5
Better reach/access to larger towns (health/education)	6	Increased spread of communicable diseases and other vulnerabilities	6
Higher income from rental due to this infrastructure development	7	Increase in rentals for tenants for both residential and commercial properties	7
Others(specify)_____	9	Others (specify)_____	9

**Q.67** REHABILITATION OPTIONS

a) Owner	Residential	Commercial purpose
What is preferred rehabilitation measure	Equivalent / better productive land and construction allowance for any structure being affected	Cash compensation at replacement value
	Cash compensation at replacement value	Shifting and rental value
	Rehabilitation grant	Training for income restoration
	Other (specify) _____	Other (specify) _____
b) Tenant	Residential	Commercial purpose



What is preferred rehabilitation measure	Shifting and rental allowance	1	Shifting and rental allowance	1
	Other (specify) _____	9	Training for income restoration	2
			Other (specify) _____	9

## Additional information

Annexure 2**Focus Group Discussion –business/ trade related members in the affected area  
(SIA\_KMRL\_conducted by Rajagiri Outreach)**

1. What is your aspiration about the proposed project with regard transportation facilities?
  - Faster and accessible commutation
  - Reduction in traffic congestion
  - Low cost transportation
  - More easy access to health, education, vocational settings
  
2. Do you think that the proposed project is planned in the best possible manner way, which it interconnects the major centers of the city, and highly density of traffic persists.
  - Connects important sites/ major access points
  - Links important (most densely traffic areas)
  - Most ridership encompassing area
  - Better solution for the slow transportation system
  
3. How it will affect the socio economic factors of the community
  - Increase in the scope of more livelihood opportunities
  - Better transportation facilities will bring better standard of living
  - Improvement in business for local vendors/ service providers
  
4. Since the road widening will lead to displacement of many shop owners/ traders it which may lead to a stage of dilemma, what is your perspective towards it ?
  - Will affect the businessmen/ traders adversely
  - Need to find out new location/ business place which may lead to increase in cost
  - Higher rate of security deposit demanded by property owners/ building owners
  - Higher rent amount demanded by property owners/ building owners
  
5. Once the project is successfully implemented, the community, especially the traders and service providers will benefit from the same. The same may take a time frame, do you think that the implementation period will be critical for the commercial sector
  - Unable to bring structural improvement in business structure
  - Traffic congestion, infrastructure development all together will hesitate people to carry out business smoothly
  - Parking of vehicles for the customers may be troublesome, which may made customers to choose for trading from other places.

- The construction of structures may generate air and sound pollution which may cause for respiratory and other diseases for the shopkeepers and other traders occupied close to road
6. The notification for the land acquisition has been given since quite long time, which may halt commercial enterprises to bring about advances in their entities which create a deteriorated situation among the community. Please comment.
    - Uncertainty in the process of land acquisition and related matters create dilemma among the people
    - Unable to expand/ improve structural and other facilities
    - Unable to expand business, acquire more stock/ employees and other matters.
  7. What changes are you looking forward through the project? Do you think that the project will widen scope of women empowerment?
    - More secured access of transport, since safety measures being adopted in metro rail including CCTV camera recording and security personal services
    - Can travel in odd timings also
    - Differently abled can also travel independently with help of accessories/technology
  8. The implementation of developmental project may pave way to increase in urban migration. Whether it will lead to more socio cultural issues?
    - Increase in crime records
    - Environmental issues
    - Need of more public amenities/ religious/ cultural settings
  9. What will be the impact in the society in a broader view point
    - Reduced amount of pollution (sound and air) by Metro Rail
    - Reduction in usage of non renewable energy
    - Improvement in trade/ more enterprises/ proportionate employment opportunities
    - More market for the human resources and other resources in better way
  10. Do you think that the implementation may adversely affect the health of the residents
    - Health issues due to construction (pollution) and other factors
    - More spreading of communicable diseases
    - Risk factor due to elevated structure
  11. How it will affect the 'app based taxi' service (such as uber, ola) and city bus operators
    - Probability in reduction in service users
    - Less scope in the metro rail covered areas

12. Are you satisfied with the proposed settlement/compensation package
  - Your grievances and queries are promptly answered
  - Compensation package is rational
  - Uncertainty prevailing
  
13. What is your expected price for the land
  - (Approximate price value for land apiece *cent*)
  
14. What all indirect benefits will be brought by the project?
  - Increase in the land value
  - More market for the immovable assets
  
15. Whether the acquisition of land/structure will lead to degradation in the standard of living of the people in the affected area
  - Congestion in the existing property
  - Health issues

Annexure 3**Focus Group Discussion – women in the affected area (SIA\_KMRL\_conducted by Rajagiri Outreach)**

1. What is your aspiration about the proposed project with regard transportation facilities?
  - Faster and accessible commutation
  - Reduction in traffic congestion
  - Low cost transportation
  - More easy access to health, education, vocational settings
2. Do you think that the proposed project is planned in the best possible manner way, which it interconnects the major centers of the city, and highly density of traffic persists.
  - Connects important sites/ major access points
  - Links important (most densely traffic areas)
  - Most ridership encompassing area
  - Better solution for the slow transportation system
3. Do you think that the proposed project will bring improvement in the present condition of travelling for women, children, elderly, weaker sections in the society?
  - More ease of commutation
  - Increase in the scope of meetings/ gathering points
4. What changes are you looking forward through the project? Scope of women empowerment?
  - More secured access of transport, since safety measures being adopted in metro rail including CCTV camera recording and security personal services
  - Can travel in odd timings also
  - Differently abled can also travel independently with help of accessories/technology
5. More livelihood opportunities for women
  - Jointly, individual business
  - Scope of new ventures for women
6. The implementation of developmental project may pave way to increase in urban migration. Whether it will lead to more socio cultural issues?
  - Increase in crime records
  - Environmental issues
  - Need of more public amenities/ religious/ cultural settings
7. What will be the impact in the society in a broader view point

- Reduced amount of pollution (sound and air) by Metro Rail
  - Reduction in usage of non renewable energy
  - Improvement in trade/ more enterprises/ proportionate employment opportunities
  - More market for the human resources and other resources in better way
8. Movement of individuals is important in active engagement in community which could be more easily possible through the project. Please comment on it.
- More opportunities for meetings/ brain storming
  - Increased scope for sharing manpower resources
9. Increased use of personalized motor vehicles had been increased tremendously in the recent future, which cause to increase in the number of road accidents and thereby loss of human life and or injure people. Do you think that the implementation of the project will be an effective alternative for the problem?
- Less use of personalized vehicle
  - Improved condition of road construction
  - Faster commutation is possible through Metro Rail
10. Do you think that the implementation may adversely affect the health of the residents
- Health issues due to construction (pollution) and other factors
  - More spreading of communicable diseases
  - Risk factor due to elevated structure
  - Possibility of sexually transmitted diseases
11. What all are the other aspects you want to express/share with regard to the proposed project

Annexure 4**Key Informant Interview Schedule**

## General information

Name	
Address	
Contact	
Age	
Sex	
Marital status	
Religion	
Caste	
Occupation	
Monthly income	
No of dependents	

1. What is your opinion about the proposed project with regards to the transportation facilities it will provide?
2. Do you think that project implementation will be a better alternative for the persisting problems with regard to commutation?
3. Do you believe that the proposed project will lead to improvement in the living standard of the affected community?
4. Since the commutation will be much more accessible and hazardless weaker sections of the society could also make use of the system, which will lead to the empowerment of those sections in the society. Please comment on it.
5. Transportation facility is one of the key attribute which is being measured while examining the living standard of people in a society. It may upgrade the ranking of the city amongst the Indian cities. How it will be directly advantage the whole community (including the affected area and other community)
6. The ecological advantages and related factors such green house gas emission, are all addressed by the proposed metro rail. Do you think the same should have implemented much earlier? And the extend of service should have stretched to other areas also?
7. Which group of people (vocational setting) will be most adversely affected due to this project (if any)?
8. Which class of society will be mostly the direct beneficent of the proposed project?

9. Do you think that the implementation of project will lead to unemployment of a certain sector, like app based taxi drivers, city bus operators, their employees and others
10. What might be the condition of squatters who carried out business/trade in the wayside who will evacuate due to the project?
11. What will be the implication of widening of road in the area? Whether it will cause to congestion in the existing assets for the dwellers in the area?
12. In the present scenario of the urban community, what will be the impact of the project, whether the city will be highly congested with rural to urban migration? Which may cause for increase in the urban social issues such as crime records, insecurity, chaos and other issues such as increased spreading of communicable diseases, sexually transmitted diseases and others