

SOCIAL IMPACT ASSESSMENT STUDY

DRAFT REPORT

ENTRUSTED BY REVENUE (B) DEPARTMENT GOVT. OF KERALA



LAND ACQUISITION FOR THE THIRUVALLA-MALLAPPALLY-CHELAKOMBU ROAD DEVELOPMENT IN THIRUVALLA, MALLAPPALLY, CHANGANASSERY TALUKS OF KOTTAYAM AND PATHANAMTHITTA DISTRICTS

09-08-2021

REQUIRING BODY

SIA UNIT



**ROAD INFRASTRUCTURE
COMPANY KERALA LTD**
A Government of Kerala Undertaking



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CHAPTER 1

EXECUTIVE SUMMARY

1.1 Project and Public Purpose

Roads and highways are considered to be a major impacts on the economic landscapes and prosperity of a country. The prosperity of a country depends upon the development of the infrastructure.

Thiruvalla lies in the banks of Pamba and river Manimala. Thiruvalla is also famous for the dance of Kathakali, which is hosted in the Sreevallabha temple almost every day in a year. Thiruvalla (means the land of Thiruvallabha i.e. Srivallabha) is a town and a taluk headquarters located in Pathanamthitta district. This is the largest and the most developed town in the district.

Mallappally (meaning "hill shrine" in Malayalam, from "Mallan" or "strong people" + "palli" or "shrine") is a taluk in Kerala state in India. Mallappally is situated 16 km far away from Thiruvalla. Mallappally is the original home of many Non-resident Indians and has one of the lowest population growth and literacy rates in India.

Chelakombu is a small village/hamlet in vazhoor block in Kottayam district. It comes under Nedumkunnam panchayat. Chelakombu is surrounded by Mallappally block towards south, Madappally block towards west, Pampady block towards north, Changanassery block towards east. This place is the border of Kottayam and Pathanamthitta district. The development of a good road infrastructure is an essential pre-requisite for the growth and development of the region.

The proposed project road is a Major District Road (MDR) in Pathanamthitta district having a total length of 20.4 km, comprising of Thiruvalla to Mallappally for 14.3 Km, Mallappally to Chelakombu for 5 Km, railway station road for 700m and bypass road for 400 m. The project road passes through the main junctions in the district namely viz. Thiruvalla, Kuttappuzha, Kizhakan Muthor, Bethelpadi, Paippad, Vellappally, Kunnamthanam, Chengaroor, Mallappally and Chelakombu.

Because of the large number of pilgrims the place receives, Pathanamthitta is known as “The Headquarter of Pilgrimage tourism” in India. The famous pilgrimage center of Sabarimala and famous

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St. Peters, St. Paul's, St. Believers Church and St. Gregorius Orthodox Church (Parumala Church) are situated here.

The project road starts at Thiruvalla which is the largest Junction and covers Kuttappuzha, Payippadu, Kunnamthanam, Kallooppara, Mallappally, Anikkad and chelakombu and reaches Nedumkunnam-Kavanalkadavu road. This serves the public access to Thiruvalla Junction from unconnected remote locations. This improves socio-economic facilities like tourism, healthcare, education etc. The traffic congestion of this area can be controlled by widening and standardizing road which saves the precious time and life of the public. The railway station road and bypass road also needs improvement which is also very sharp and requires improvement.

Seeing the project as a public purpose, Revenue (B) Department of Kerala Government issued a Notification G.O.(P)No.107/2020/RD dated 18/12/2020 which was published in the Kerala Gazette (Extra ordinary) No.3025 dated 19th December 2020. The said Notification notified the land details which may be acquired for the development of Thiruvalla-Mallappally-Chelakombu road and also entrusted Rajagiri outREACH to conduct the Social Impact Assessment as insisted in section 4(1) of RFCTLARR Act 2013.

1.2 Location

The land proposed to be acquired for the widening of Thiruvalla-Mallappally-Chelakombu road belongs to Thiruvalla, Kuttappuzha, Kunnanthanam, Kallooppara, Mallappally, Anikkad, Paippadu, Nedumkunnam villages of Pathanamthitta and Kottayam districts. The location is situated in Thiruvalla municipality, Nedumkunnam, Kallooppara, Anikkad, Kunnanthanam, Paippadu, Mallappally panchayats. The project area is heavily built up with commercial centres, public buildings, private institutions, religious structures and residential plots. Besides there are used or unused open lands which are suitable for agriculture. The proposed road has a total length of 20.4 km and passes mostly through public land and commercial plots.

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1.3. Size and attributes of land acquisition

Notification of Revenue (B) Department, Government of Kerala G.O.(P)No.107/2020/RD dated 18/12/2020, published in Kerala Gazette (Extraordinary) No.3025 dated 19th December 2020 reveals that approximately 2.3835 hectares of land belongs to Thiruvalla, Kuttappuzha, Kunnanthanam, Kalluppara, Mallappally, Anikkad villages in Pathanamthitta District and Payippad and Nedumkunnam villages in Kottayam District needed or likely to be needed for the construction of Thiruvalla-Mallappally-Chelakombu road. The land details put out in the Notification are given in Table 1.3.1.

Table 1.3.1. : Details of the Land to be acquired

<i>District</i>	<i>Village</i>	<i>Survey Number</i>
Pathanamthitta	Thiruvalla	204, 207, 113
Pathanamthitta	Kuttappuzha	523, 520,519,510,508173,479, 478, 474, 472, 466, 447, 339, 347, 528, 529, 522, 516, 512, 165, 170, 178, 186, 199, 200, 208, 209, 334, 337, 327, 323, 322, 315, 271, 272, 264, 261, 260, 348, 313, 275, 276, 278, 281
Pathanamthitta	Kunnanthanam	214, 217, 208, 225, 224, 223, 222, 246, 247, 248, 249, 251, 252, 253, 254, 195, 186, 187, 177, 180, 267, 268, 272, 273, 296, 295, 287, 286, 284, 358, 357, 356, 351, 264, 263, 259, 258, 298, 299, 301, 303, 306, 312, 310, 324, 326, 349
Pathanamthitta	Kallooppara	140, 139, 138, 123, 33, 34, 29, 38, 39, 43, 50, 123, 122, 121, 96, 95, 93, 92, 53, 55, 58, 62, 89, 88
Pathanamthitta	Mallappally	295, 291, 279, 276, 275, 272, 267, 266, 257, 256, 255, 250, 229, 225, 224, 220, 219, 297, 298, 300, 301, 302, 303, 304, 262, 260259, 261, 255, 253, 252, 249, 247, 228, 227, 226, 218
Pathanamthitta	Anikkad	296, 298, 301, 303, 326, 327, 328, 338, 340, 344, 295, 299, 302, 259, 258, 255, 253, 252, 251, 345, 346, 128, 129, 130, 120, 46, 44, 43, 42, 250, 249, 137, 136, 131,

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		132, 133, 138, 41
Kottayam	Paipadu	<u>Block No. 7</u> 485,487,495,491,449,448,442,438,437, 432, 433, 426, 483, 482, 481, 478, 452, 453, 454, 455, 417, 420, 421, 424
Kottayam	Nedumkunnam	<u>Block No.17</u> 279, 273, 280

The major part of the proposed new alignment passes through private land. Land use pattern of the proposed road shows a mix up between agricultural, commercial and residential uses. Out of the 159 land properties identified by the SIA unit 158 lands belong to “Dry land”, one land belongs to other category.

1.4. Alternatives considered

According to the Requiring Body consideration of alternative is not relevant since the project is designed in such a way to cause minimum impacts to the families. The alignment mainly passes through private land and commercial properties and also the impact of residences are less. But the compound wall and gate of some properties were affected. The present alignment will cause displacement of several business units in the towns. The present alignment of the proposed road was finalized after several meetings and deliberations to solve the disputes.

1.5. Social Impacts

The proposed project is the land acquisition for the road development ie from Thiruvalla to Chelakombu. The project of Thiruvalla-Mallappally-Chelakombu Road widening is proposed for enhancing the infrastructure facilities of the region. The traffic congestion of this area can be controlled by widening and standardizing road which saves the precious time and life of the public. Eventhough the land acquisition for Thiruvalla-Mallappally-Chelakombu road development is planned in such a way to minimize negative impacts to the people, it is understood that the land acquisition may cause some impacts like Loss of land, loss of properties attached to the land, Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallooppara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

Displacement of Families, Loss of livelihood, Inadequate land for reconstruction etc. The impacts of the project in general are mentioning below:

a. Loss of Land

Through the survey conducted in the affected land Social Impact Assessment Unit could identify 158 land owners. Out of the total 159 land properties, owners of the 82 properties acquired land from their ancestors and the remaining 75 were purchased and 1 is inherited and bought and one is not responded to the land in different periods.

b. Impact on Residences

The residential structures of 8 families will be fully and 73 partially and slightly destroyed due to the project. Out of these 8 families will be displaced from the project area.

c. Displacement of Families

Out of the surveyed families it is understood that 8 families will be displaced from the project area. All families are using this land as residence only.

d. Loss of Livelihood

There are shops and business enterprises in the project land which may be fully or partially affected. The people who runs the business in the affected structures, either may be the owner or tenant will lose their livelihood. The people who works in the affected business centres will also lose their livelihood. The owners who gave the affected structures for rent will lose the income as rent and some families shared that this rent is their major income. Some of the families shared the income from the agricultural yields of the affected land is their major income.

Out of the 159 land owners surveyed 71 families shared that their major source of income will be affected due to the project out of which 60 families will lose their business, 35 families will lose the income from the agricultural land and some people will lose the rent from the affected structures. Besides tenants who have been done business in the affected land and employees working in the affected shops/firms will lose their livelihood.

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e. Loss of Agriculture

The proposed alignment of the road goes mainly through private land. No land is included in acquisition which is presently having major agriculture like paddy. However the land which is proposed for acquisition is the widening of present road. So that the acquisition will not affect much agricultural land. Besides the current acquisition will affect lot of trees and tropical agriculture. Besides approximately 1046 trees including fruit bearing and yielded trees may be destroyed for the project.

f. Inadequate Land for Reconstruction

Inadequacy of the remaining land after acquisition for the reconstruction of affected structures and for doing agriculture is also found to be an impact of the project. During the Social Impact Assessment study survey building owners in the town shared that the remaining land will not be sufficient to reconstruct the structures.

Table 1.5.1 Impacts of the Project

Sl.No.	Impacts	Discription
1	Loss of land	159 land owners
2	Displacement of Families	8 families
3	Impact on houses (Fully/Partially/Slightly)	82 land owners
4	Structures affected	82 land owners
5	Loss of Livelihood	72 individuals
6	Agriculture affected	35 families
7	Loss of trees	Approximately 1046 trees

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Note: The above data is arrived as per the information provided by the respondents during the Survey. Supporting documents need to be verified during Land acquisition.

1.6 Mitigation Measures

The following measures shall be taken to mitigate the above mentioned impact due to the land acquisition from Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts for the development of Thiruvalla-Mallappally-Chelakombu road.

- Compensation shall be provided to the affected families as per the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013 and Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015.
- R&R package shall be provided for the affected properties as per the Policies vide G.O.(Ms)No.485/2015/RD dated 23/09/2015 and G.O.(MS)No.448/2017/RD dated 29/12/2017 issued by Revenue(B) Department, Government of Kerala for the rehabilitation and resettlement package for acquisition of land in the state in lieu of RFCTLARR Act 2013.
- For avoiding residential problems of the families timely rehabilitation measures shall be taken for the affected houses.
- If the partially affected houses/shops need maintenance and the stay/functioning would be impossible for that period, the amount for a rented house/amount for livelihood will be compensated for the said period.
- Rehabilitation measures will be taken before the evacuation of the houses to not cause more impact on the livelihood of the families.

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- Ensure that the functioning of the shops which are not included or partially included in the acquisition is not hindering during the project construction period. Otherwise consider for compensation for the affected livelihood during the construction period
- The resettlement of the basic facilities like toilet, septic tank, well etc will be ensured without causing inconvenience to the families.
- If land remains after acquisition will be legally insufficient to reconstruct the affected houses, shops etc either consider it for full acquisition or possible concession shall be given for the reconstruction in the remaining land based on the existing laws, if needed.
- Based on the legal documents consider the tenants and employees for R&R package who have been doing business in the affected structures /working in the affected enterprises for 3 and more years.
- For the protection of the environment perpetuate the trees in the affected area as far as possible and measures should be taken for replantation in lieu of the destroyed trees
- During the project construction period the unhindered entry to the nearby houses and shops, convenient mobility of the people and vehicle and scientific and timely disposal of the construction waste shall be ensured

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CHAPTER 2

DETAILED PROJECT DESCRIPTIONS

2.1 Background of the project, including developer's background and governance/ management structure

The Government of Kerala, with a vision to foster the growth of infrastructure development in the state, has entrusted the rehabilitation works of the Thiruvalla-Mallappally-Chelakombu Road with the Road Infrastructure Company Kerala Ltd.

The Project Preparation Unit (PPU), Design wing, PWD has been entrusted with the preparation of detailed project report of the above roads. These roads have been prioritized from the study conducted by Wilbur Smith Associates Pvt Ltd, through which 551 km of roads were identified in the state for up gradation through PPP/EPC mode under the State Road Improvement Project (SRIP).

As per the IRC code, the correction of geometrics as well as improvements of the major junctions of the existing road is primarily included in the proposed project except at some locations. The improvements of all cross drainage (CD) structures are proposed as per IRC standards and MoRT&H Specifications. Since the availability of good infrastructure facility is an essential pre-requisite for the growth and development of a region, the improvement of the standards of existing facilities propels the socio-economic profile of the region as a whole.

2.2. Rationale for project including how the project fits the public purpose criteria listed in the Act

The development of a good infrastructure is an essential pre-requisite for the growth and development of the region. The present land acquisition is for the development of Thiruvalla-Mallappally-Chelakombu road.

The project road is located in the district of Pathanamthitta, starts at Thiruvalla which is the largest Junction and covers Kuttappuzha, Payippadu, Kunnamthanam, Kalloppaara, Mallappally, Anikkad and chelakombu and reaches Nedumkunnam-Kavanalkadavu road. This serves the public access to Thiruvalla Junction from unconnected remote locations. This improves socio-economic facilities like Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kalloppaara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

tourism, healthcare, education etc. The traffic congestion of this area can be controlled by widening and standardizing road which saves the precious time and life of the public. The railway station road and bypass road also needs improvement.

The project comes under the public purposes stated in Section 2(1) b of RFCTLARR Act 2013. Further the Notification G.O.(P)No.107/2020/RD dated 18/12/2020 issued by Revenue (B) Department, Government of Kerala which was published in Kerala Gazette (Extra ordinary) No.3025 dated 19th December 2020 stated the said project as a public purpose.

2.3 Details of project size, location, capacity, outputs, production targets, costs and risks

The quantities of various items of work are worked out based on the detailed plans, profile and cross sectional elements. The quantities of the items under Site Clearance, Earth Works, Sub-base and Base Courses, Bituminous/Cement Concrete Courses, Road Junctions, Drainage and Protective Works, Bridges, Culverts, Road Markings & Other road appurtenances and Rehabilitation etc. have been computed based on the design.

Detailed costs have been worked out for the different items of road works and structures for each reach. The grand total of estimate comes to Rs. 97.5 Crore. Government of Kerala through KIIFB provides funds to carry out the standardization of the existing road.

2.4 Examination of alternatives

According to the Requiring Body consideration of alternative is not relevant since the project is designed in such a way to cause minimum impacts to the families. The alignment mainly passes through private land and commercial properties and also the impact of residences are less. But the compound wall and gate of some properties were affected. The present alignment will cause displacement of several business units in the towns. The present alignment of the proposed road was finalized after several meetings and deliberations to solve the disputes.

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2.5 Phases of the project construction

Works have been divided into four categories, namely, road works, major bridges, structures and other works. Each item of work has been further sub-divided into stages and payment will be made for each completed stage of work.

2.6 Core design features and size and type of facilities

The road stretch from Thiruvalla to Mallapally portion of project road is proposed to be widened to two lane carriageway with 1m paved shoulders to avoid accidents and time delay of road users. The proposed carriageway configuration considering the projected traffic and constrains of available land width, is given as follows. The cross section of road is proposed as **Type-I/Ia** two-lane carriage way of width 7.0m with, 1.0m paved shoulder and 1.5m footpath cum drain in built up areas.

At rural sections the cross section of road is proposed as **Type-II** two-lane carriage way of width 7.0m with 1.0m paved shoulder and 0.75m earthen shoulder and followed by 0.75m open drain.

In sloping terrain sections the cross section of road is proposed as **Type-III** two-lane carriage way of width 7.0m with 1m paved shoulder, 0.8 m wide CC shoulder and 0.7m wide Irish drain. Thus the total width of right of way comes to 12m in urban area and rural area.

The road stretch from Thiruvalla to Railway station having length of 710 m is proposed as **Type-I/Ia** at built-up areas.

The 420 m stretch by pass road starting at ch 13/400 and ending at Mallapally Jn is proposed as **Type-IV** two-lane carriage way of width 7.5 m width, and 1.25m footpath cum drain.

The road stretch from Mallapally to Chelakombu is proposed as **Type-V** intermediate lane carriage way of width 5.5 m with 0.75m earthen shoulder and 0.75m open drain.

In sloping terrain sections the cross section of road is proposed as **Type-VI** Intermediate lane with carriage way of width 5.5m with 0.8m CC shoulder and 0.7m wide Irish drain.

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1	Title of the project	Improvements to Thiruvalla- Mallapally- Chelakombu road in Pathanamthitta District
2	Department	Kerala Public Works Department
3	Details of project location	
	i. District	Pathanamthitta
	ii. Taluk	Thiruvalla & Mallapally
	iii. Corporation/Municipality/Panchayath	
	iv. Assembly Constituency	Thiruvalla
4	Implementing agency/SPV	Road Infrastructure Company Kerala Ltd
5	DPR prepared by	Project Preparation Unit, Kerala PWD
6	Administrative sanction	G.O(Rt) 1192/2016/PWD Dated 20.08.2016
7	Nature of the project	Widening and alignment design
8	Present status of roads, if any	Major District Road
9	Need for the project	Inadequate width for carriage way, geometrically deficient curve, inadequate cross drainage, congested junctions, lack of road safety measures etc.
10	Details of proposed roads	
	i. Length of road	20.4 km
	ii. Carriage way width	Two- lane road with carriage way width of 7m from Thiruvalla to Mallapally and Intermediate lane of carriage way width of 5.5 m from Mallapally to Chelakombu,
	iii. Thickness of layers	Thiruvalla to Mallapally-GSB-150mm, WMM- 250mm, DBM 50mm, BC-25mm Mallapally to Chelakombu-GSB-150mm, WMM- 225mm, DBM 50mm, BC-20mm
11	Details of investigation/surveys conducted	

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	i. Traffic	Yes
	ii. Geotechnical	Yes
12	Whether land acquisition involved?	Yes
	if yes furnish details	Area -28068 m ²
13	Details of revenue streams	No
14	Details of project risks	No
15	Details of project management organisation	EPC monitored by RICK
16	Details of contract management strategy	EPC
17	Details of statutory clearances	Inland Navigation and Irrigation Dept
18	Quality control infrastructure and mechanism	PWD quality control infrastructure/Independent Engineering Institutions

2.7 Need for ancillary infrastructural facilities

The cost for the shifting of utilities are included in the estimated project cost. The arrangement for uninterrupted people's movement and transportation shall be undertaken during the project construction period. Also the construction activities has to plan in such a way to not hindering the access to the houses and shops in the project area.

2.8 Work force requirements (temporary and permanent)

The contractor will be appointed through competitive bidding and has to execute the work as per the conditions mentioned in the contract agreement. The work schedule for the project will be prepared by the contractor which will be reviewed by the Project management organisation (RICK Ltd.) and external consultancy on a regular basis to ensure timely completion of the project. The workforce required for the completion of the project will be deployed by the Contractor.

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2.9 Details of social impact assessment/ environment impact assessment if already conducted and any technical feasibility reports

The Detailed Project Report reveals that technical studies like Topographic study, Geo technical investigation and sub soil exploration were done in the project area. A Traffic survey also was conducted. Social Impact Assessment Study for the land acquisition of the project is undertaking now.

2.10 Applicable legislations and policies

The applicable laws on land acquisition, with regards to compensation, rehabilitation and resettlement for the proposed land acquisition from Thiruvalla, Kuttappuzha, Kunnanthanam, Kallappara, Mallappally, Anikkad, Paippadu, Nedumkunnam villages of Pathanamthitta and Kottayam districts for the development of Thiruvalla-Mallappally-Chelakombu road are the following:

- The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
- Kerala The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015
- Government of Kerala- Revenue (B) Department -State Policy for Compensation and Transparency in Land Acquisition vide G.O (Ms) NO.485/2015/RD dated 23/09/2015.
- Government of Kerala, Revenue (B) Department -State Policy for Rehabilitation and Resettlement Package for Land Acquisition in the State in lieu of RFCTLAR&R Act 2013 vide GO(MS)No.448/2017/RD dated 29/12/2017.
- Right to Information Act, 2005

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CHAPTER 3

TEAM COMPOSITION APPROACH, METHODOLOGY AND SCHEDULE OF THE SOCIAL IMPACT ASSESSMENT

Notification of Revenue (B) Department, Government of Kerala G.O. (P)No.107/2020/RD dated 18/12/2020 published in Kerala Gazette (Extra ordinary) No.3025 dated 19th December 2020, stated that approximately 2.3835 hectares of land comprised in Thiruvalla, Kuttappuzha, Kunnanthanam, Kallooppara, Mallappally, Anikkad, Paippadu, Nedumkunnam villages of Pathanamthitta and Kottayam districts for the development of Thiruvalla-Mallappally-Chelakombu road. The said Notification also accorded sanction to Social Impact Assessment Unit - Rajagiri outREACH, Rajagiri College of Social Sciences, Kalamassery- to conduct the Social Impact Assessment Study of the project as insisted in Section 4 of RFCTLARR Act 2013. Further, a team was constituted by the SIA unit with experts who have engaged in similar projects and deployed them into the project with a set of specific roles and responsibilities.

3.1 List of all team members with qualification

Social Impact Assessment study of the land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road was conducted by 13 members who are experienced in conducting such studies. The study team is headed by the Director of Rajagiri outREACH, who is also the Chairperson of the SIA unit. Details of the study team is given in Table

Table 3.1.1. Study Team

Sl.No	Name	Qualification & Position	Experience
1	Dr.Binoy Joseph	Ph.D.,M.A(HRM),LLB Consultant	26 years experience in teaching and research
2	Dr.Fr.Saju.M.D.	M.Phil,Ph.D Consultant	13 years experience in teaching and research

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3	Fr.Shinto Joseph	M.S.W Consultant	5 years experience in teaching and research
4	Meena Kuruvilla	MSW Chairperson	33 years experience in development sector
5	Maria Tency V.S.	M.A.,D.S.S. Research Associate	29 years experience in developmental sector
6	Biju.C.P.	B.A. Development Officer	29 years experience in developmental sector
7	George.V.A	MSW Research Associate	32 years experience in developmental sector
8	Ranjith K U	B A , D S S Research Associate	27 years experience in Development Sector
9.	Gigin P.S	MSW Research Associate	2 years experience in development sector
10	Albin Noble	MSW Research Associate	2 years experience in development sector
11	Elizabeth Penelope Lobo	M.B.A Research Associate	31 years of Experience in development sector
12	Philomina K A	Data Entry operator	27 Years of experience
13	Indira V V	Data Entry operator	28 years of experience

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3.2. Description and rationale for the methodology and tools used to collect information for the social impact assessment

Estimation of the number of project affected families and individuals, estimation of the project affected properties, finding out the social impacts of the project and prepare Social Impact Mitigation Plan are the objectives of Social Impact Assessment study. The primary and secondary sectors have to be studied in detail to collect the data for the preparation of Social Impact Assessment Study. A questionnaire was prepared to collect the details from the project affected families based on the investigation and primary visit of the study team in the project area. The questions related to the socio-economic status of the families, demographic details, details of the affected properties, usage of the affected land, opinions of the families about the land acquisition and the project were included in the questionnaire. Later, the primary data was collected by conducting socio-economic survey in the affected families by using the prepared questionnaire. Telephonic survey was conducted with the land owners who are not staying in the project area. Besides telephonic key informant interviews were conducted with the LSG representatives to know about the expected impacts of the project in the region.

The secondary details for the study was collected from the Requiring Body and office of the Land Acquisition Officer.

Based on the scientific analysis of the data collected through the study the Draft Report of Social Impact Assessment Study was prepared and it will be presented in the public hearing which will be held on 18/08/2021 includes the Social Impact Management Plan.

In short, the steps taken for the study are as follows:

- Study of relevant documents received from Road Infrastructure Company Kerala Limited.
- Visit to the project area
- Socio-economic survey and enumeration of the affected properties
- Analysis of the data received through the socio-economic survey
- Preparation of Draft Report

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3.3 Sampling Methodology Used:

The impact of each family is different and as the Social Impact Assessment Study requires the data of the entire affected families and individuals. Therefore instead of sampling methods the study of all universe is suitable for Social Impact Assessment Study. During the study period SIA unit could identify 159 land owners. A socio-economic survey was conducted with these 159 land owners by using a structured questionnaire.

3.4 Overview of information/ data sources used

A questionnaire was prepared, tested and finalized to collect data through a socio-economic survey. The questions related to the details of demographic, economic, livelihood, affected properties and the expected impacts were included in the questionnaire.

Both the qualitative and quantitative primary details and also the secondary details were scientifically collected and analysed by the study team. The primary data was collected from the affected families by using the questionnaire. The secondary details for the study was collected from the Requiring Body and office of the Land Acquisition Officer.

The response and data points were analyzed and findings are included in the report along with recommendations.

3.5 Schedule of consultations with key stakeholders and brief description of public hearings conducted

Details of the interviews and visits conducted for the data collection are explaining in Table 3.5.1

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Table 3.5.1. Activities and Time Schedule

<i>Activities</i>	<i>Date</i>
Initial visit to project area	22/01/2021
	23/01/2021
Joint project area visit by the LAO, Riquiring Body and SIA unit	28/01/2021
	29/01/2021
	30/01/2021
Socio-economic survey in the Project area	January and February 2021
Notice distribution for Public Hearing	12/08/2021
Public Hearing	18/08/2021

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CHAPTER 4

LAND ASSESSMENT

4.1 Description with the help of the maps, information from land inventories and primary sources

The proposed project is the land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road. The land proposed to be acquired belongs to Thiruvalla, Kuttappuzha, Kunnanathanam, Kallooppara, Mallappally, Anikkad, Payippadu, Nedumkunnam villages of Pathanamthitta and Kottayam districts. The area is heavily built up with commercial centres, public buildings, private institutions, religious structures and residential plots. Besides there are used or unused open lands which are suitable for agriculture. The proposed road is passes mostly through private land and commercial building structures.

4.2 Entire area of impact under the influence of the project (not limited to land area for acquisition)

The project of Thiruvalla-Mallappally-Chelakombu Road Construction is proposed to augment the infrastructure facilities of the region by enhancing a better connectivity between the Thiruvalla, Mallappally and Chelakombu. The widening of Thiruvalla-Mallappally-Chelakombu road will pave way for better connectivity of the town to outer City areas and is also expected to cater the smooth flow of increasing traffic projected for the years to come. The road stretch starts from Thiruvalla, passes through Mallappally and ends at Chelakombu, the initial stretch of 4km is of plain terrain and the remaining stretch till Mallappally junction and railway station road is of rolling terrain and the project stretch from Mallappally till Chelakombu and bypass road is hilly terrain.

By improving the road transport facilities, better socio-economic facilities like tourism, healthcare, education etc can be achieved. Also the project boosts up the revenue from the tourism around this area and also from the adjacent tourist locations. Thus widening of the road will considerably reduce the traffic congestions and thereby increase the efficiency of traffic through the project road.

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4.3 Total land requirement for the project

The proposed alignment is having total length 20.4 Km starting from Thiruvalla to Mallappally to Chelakombu. The Requiry body stated that 2.3835 hector land to be acquired for the project.

4.4 Present use of any public, utilized land in the vicinity of the project area

There is no public utilized land in the project area.

4.5 Land (if any) already purchased, alienated, leased or acquired, and the intended use for each plot of land required for the project

As per the information received from the concerned office, no land is already purchased, alienated or leased for the project. The land proposed to be acquired will be used for the development of Thiruvalla-Mallappally-Chelakombu road development project.

4.6 Quality and location of land proposed to be acquired for the project

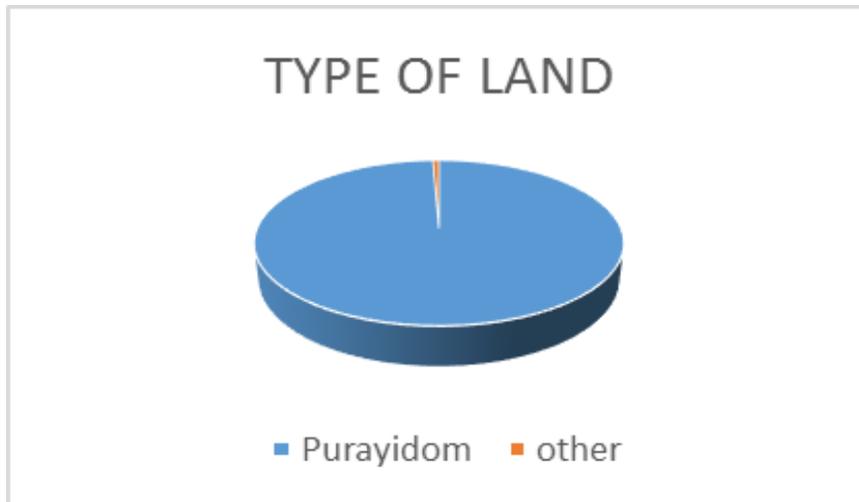
The land proposed to be acquired for the project from 3 survey numbers of Thiruvalla village, 44 survey numbers from Kuttapuzha village, 47 and 24 survey numbers respectively from Kunnanathanam and Kallooppara Villages and 37 survey numbers from Mallappally village, 38 from Anikkad village, 24 from Paippadu village and 3 from Nedumkunnam village. The project sites belong to Pathanamthitta and Kottayam districts.

4.7. Nature, present use and classification of land and if agriculture land, irrigation coverage and cropping patterns

Land properties of the 159 owners identified by the SIA unit 158 lands belong to “Dry land”, the land of 1 belongs to other category. Land use pattern of the proposed road shows a mix up between agricultural, commercial and residential uses. Presently unused open land is also there in the project area.

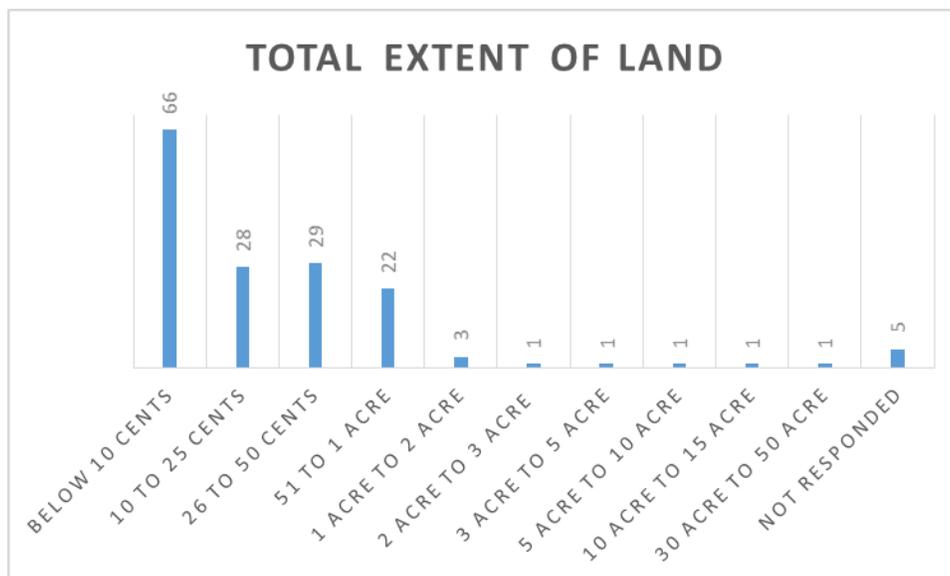
No land is included in acquisition which is presently having major agriculture like paddy. However the land in which having lot of coconut trees, rubber and other trees and tropical agriculture like tapioca, plantain etc are included in acquisition. Among the families studied the SIA unit could understood that agricultural land loss is very less and it cause very less impact to agricultural related activities.

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4.8 Size of holdings, ownership patterns, land distributions and number of residential houses
 The SIA unit could identify 159 land owners. The figure 4.8.1. shows the total land holdings of that 159 families as they revealed in the survey.

Figure 4.8.1. Size of Land Holding of the Families



Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallooppara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

The figure above shows that out of the 159 affected families 66 families possess below 10 cents of land, 28 families possess 10-25 cents, 29 families possess 26-50 cents, 22 families possess 51 cents to 1 acre and 3 families possess 1-2 acres of land. 1 family having land between 2 - 3 acres and 1 family having between 3-5 acres. 1 family shared that they possess 5-10 acres of land and 1 family having 10-15 acres of land and 1 family having 30-50 acres of land and the said information was not received from 5 families.

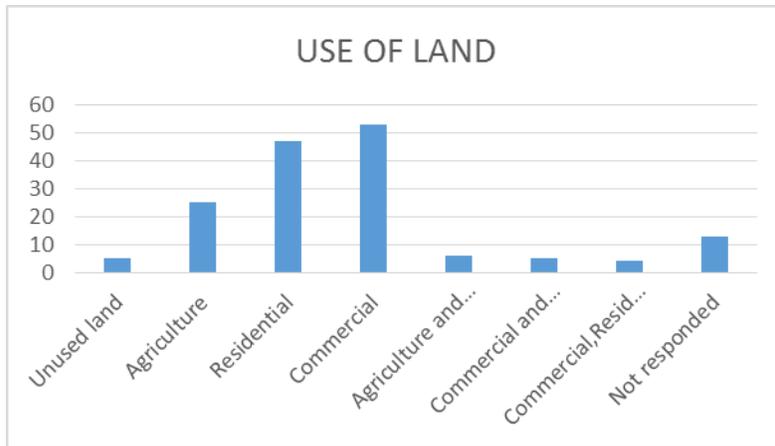
The residential structures of 82 families are included in acquisition which will be fully/partially/Slightly destroyed due to the project.

4.9 Land prices and recent changes in ownership, transfer and use of lands over the last three years

As per the data given by the informants except in 1 land property no transactions have been done for the last 3 years. The existing land owners of 4 land properties were legally received the property from their ancestors within the last 3 year period.

Land use pattern of the project area shows a mix up between agricultural, commercial and residential uses. Presently unused open land is also there in the project area. Among the 159 land properties 5 are open land with no specific usage presently, 25 are using for agricultural purpose, 47 are using for residential purpose and 54 are used for business purpose, 6 are used as agricultural and residential purpose, 5 are used as commercial and residential purpose, 4 land plots are used as commercial, agriculture and residential purposes. 13 persons do not responded to the present use of their land.

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CHAPTER 5

ESTIMATION AND ENUMERATION (WHERE REQUIRED) OF AFFECTED FAMILIES AND ASSETS

5.1 Estimation of families

There will be possibility of direct and indirect impacts when a land acquired for a public purpose. The owners of the land to be acquired would be considered as the families facing direct impact and those who have been depending on the said land for their livelihood/residence/any basic facilities would be considered as the families face indirect impact. It is understood that the land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road project cause direct and indirect impact.

5.1.1 Families which are directly affected (own land that is proposed to be acquired)

Revenue (B) Department, Government of Kerala put out the details of the land ie survey numbers, block numbers, village and taluk of the land proposed to be acquired for the development of Thiruvalla-Mallappally-Chelakombu road project via Notification No. G.O.(P)No.107/2020/RD dated 18/12/2020 which was published in Kerala Gazette (Extraordinary) No.3025 dated 19th December 2020. The Notification reveals that the total extend of land is approximately 2.3835 hectares. The SIA unit could identify 159 owners of the affected land. The details of those families are given in Table 5.1.1.

Table 5.1.1 Name and Address of the Land Owner & Survey Number

SL NO.	NAME AND ADDRESS	SURVEY NUMBER	IMPACT
1	T.G. Radhakrishnan and Thankam , Thekketh Bhavan, Nelladi ,Eraviperur ,P.O 9847310780(Owner), 8157953325	204/40, 39, 4, 5/1	Water tank for filter, water tank soak pit, compound wall, parking area

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2	Thomas Babu and Lillikutty Thomas Thannikkapurathu, RS. P.O, Thiruvalla 9847882804	512/13, 512/22	2 pillars will be affected, overflow pit of septic tank
3	Radhika Radhakrishnan Thekketh Bhavan, Nelladi, Eraviperur, P.O 8175953325(Biju) , 9847310780 (Father)	204/5	Parking area, compound wall
4	John V. Abraham and Glory Joseph Vanath House, Kuttappuzha P.O , Thiruvalla 9447106493	200/2	Compound wall, gate
5	Berly and Cyriyac Flat no. B8C, Willingdan Enclave, Thevara Ferry Rd, Thevara 9447150105	532/7/13	Compound wall, gate
6	Rowlly Mathew Thiruvalla Medical Mission Hospital, P.B-74, Thiruvalla, Railway Station P.O 04692626000		Compound wall, gate
7	St. Paul's Marthima Church, St. Paul's Marthima Church Parsonage, Kuttapuzha Nagar P.O Thiruvalla 9446405029/7902719861 (Trustee)	339/2, 339/3	Compound wall(2), gate(2), roofed sheet(one each from church and parish hall), coconut tree (2)
8	George. M. Abraham (Jeemon), Manjapallil G Bhavan, Kuttapuzha, P.O	348/2	Shop affected, jackfruit(1), mango(1),pepper(10),

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	Thiruvalla 9562349322		teepettimaram(1), vazhana(1)
9	K. Parameshwaran Pillai, Kailas Kuttappuzha P.O Thiruvalla -3 9446389072	33/013	Roofing slightly, varandha, partially affected shops(3)
10	K. V Geevarghese (Late), N.C.C Green Valley, B-902, Nr. Info Park Kakkanad 9446838982	532/10, 528/6, 466/3, 466/4	Compound wall, gate, dog cage, shop's varandha, shop
11	Sam K. Mathew (America), Meleparambil House, Kuttapuzha, P.O, Kizhakkamuthoor 9562311332		Shop's front concrete courtyard
12	Susy Skaria, Puthanparambil (H), Kuttapuzha, P.O Thiruvalla 7558014149		Compound wall, gate (titled puram), and parking area. Pana(4)
13	Nebu K. Chacko, Palmgrove Apartments, J.P Nagar, Kuttapuzha, Thiruvalla 9447133833, 9847933833(Prakash Koshy-owner of building)	156/1A7, 8(SURVEY), 474 (RESURVEY)	Septic tank, entry to the parking area, compound wall, gate
14	Prakash Koshy Benjamin, 7B, Alapine Heights, Kuttappuzha 9447133833, 9847933833(156/1A-7,8	Entry to the parking area
15	A.V Cherian, 6B, Alapine Heights,		Entry to the parking area

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	Kuttauzha 9136080885		
16	Salvation Army Church 9605394246	334/10	Compound wall, gate, cemetery and tombs, cells, coconut tree(4). Thanalmaram(1)
17	Anilkumar K, Vrindhavanam, Kuttapuzha P.O Thiruvalla 8281606134	337/14	Roofing slightly, varandha, partially affected shops(3)
18	Mathews Kunnuthara Kuttapuzha, Thiruvalla 8921286252		Compound wall, gate, coconut tree(10 approximately), mahagani(3)
19	V. J Jayel, Jaya Bhavan, Padapad, Kuttupuzha P.O Thiruvalla 0469-2735012\ 9446634605	113\13	Compound wall, gate
20	T Ninan Mathew, Mathew Villa, Kuttapuzha, P.O Thiruvalla 8281827618	209/6	Compound wall, varandha, coconut tree(4)
21	Eliama Thomas, Mathew House, Kuttapuzha, P.O Thiruvalla 9847894369		Shop partially affected(varandha only)
22	C.K Vasudeva Kurupp Puthanerypurath House, Kuttapuzha,		Tiled courtyard

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	P.O Thiruvalla 9745267675		
23	Mariamamma Jacob and Thomas(late), Kochuthekkedath Peedikayil House, Kuttapuzha, P.O , Kizhakkanmuthoor, Thiruvalla 9447120924	466/5	Compound wall, gate. Mango tree(1), jackfruit tree(1), coconut(1)
24	Thomas T. Kuruvilla, Thaikootathil House, Pallissery, P.O, Chengannur 9947877701		Gate, compound wall, septic tank, parking area
25	Dr. Sujith Mathew, EDCES and Braces Dental Speciality 9847052452		Septic tank, entry to the building, compound wall, gate, shop partially affected
26	Dr Mary Mathew, Dr Sujith Mathew, Kottanipral, Kuttapuzha, P.O Thiruvalla 0464 2601775, 9847052452		Compound wall, gate, coconut tree(3)
27	Mathan Varghese, V.G Varghese, Mathai Varghese, Mebin Gheevarghese Kripa Mandira, NR. Medical Mission Hospital, Thiruvalla. 9048709433	520/9-1	Varandha, sheeted roof, partially affected shops(vegetable shop)
28	Dr Kurian Koshy, Kurishinmoottil, NR. TMM Hospital, Thiruvalla, 8086352544	466	Only land
29	Rajesh Alexander, Kanniyanthara,		Only land

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	Kuwait. 9526629717(Moly Rajan)		
30	P.V Varghese and Annamma Varghese, opp. Village Office, Pulimoottil House, Kuttapuzha. 9947916780	313/1-2	Compound wall, gate
31	George Abraham, Hermon Villa, Kuttapuzha. 9447958442	313/6	Compound wall, gate, land, jackfruit tree(2), guava tree(1), vazha(6)
32	Kurian John, Turamath House, Kuttapozha, P.O, Thiruvalla. 9745037658	1634	Compound wall, land
33	C. Koshy Mathew, Thoompunkal House, NR. Medical Mission Hospital, Thiruvalla. 9446567329	510/3	Well/bore well, compound wall, land only(3cent), coconut tree(2), jackfruit tree(1), banana tree(1)
34	G.T Abraham, Kochiyil House, Kuttapuzha, P.O Thiruvalla 9656917073	327/2	Compound wall, gate, coconut tree(1)
35	Renjith Mathew, Thayyil House, R.SP.O, Thiruvalla. 9562697181	512/10	Partially affected shop(office)
36	Moncy T. Philip and Bincy Philip, Tharasseryil House, NR. Medical Mission Thiruvalla. 009711529036900(Presently in Dubai)	520/1-7	Compound wall, gate

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37	Philip Varkey Tharasseryil House, NR. Medical Misson Hospital, Thiruvalla. 0469-2600808/ 9495682713	510/4	Compound wall gate, coconut tree(1), jackfruit tree(1)
38	T.P. George, Chilanka Theater, TM Road Thiruvalla. 9847031633	532/19-2,313/293,315/2-3	11 Kv transformer and switch guard; compound wall, mango tree(1), coconut tree(1); bore well, coconut tree(5), vegetables
39	Mathew Joseph, Mundukottal House, Kunnanamthannam P.O, Pathanamthitha, Pin: 689582 9447086422	186/10	Toilet, building frontage affected, rubber(4)
40	Varghese Thomas, Chakummutil Malayil, Padijarayil House, Kunnanamthannam P.O. 9947899029	254/7-1, 254/7-2, 254/7-3, 254/7-4	Slightly impact on house, partially Slightly affected shop (1)
41	Thomas Cheriyan, Meparuth House, Kunnanamthannam P.O. 9744250800	253/2	Slightly impact on house, impact on well, compound wall and gate, one shop and building underground affected.
42	M.V Thomaskutty Meparuth House, Kunnanamthannam P.O. 9495435179	253/1-3, 253/1-2	Slightly impact on house, impact on compound wall and gate, coconut tree(1)
43	Ghevarghese, Anaparakyal House, Kunnanamthannam P.O.	264/14	Slightly impact on compound wall and gate

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	9447895583		
44	Annama Ghevarghese, , Anaparakyal House, Kunnanamthannam P.O. 9447895583	272/6-2	Slightly impact on openland, impact on compound wall and gate, tapioca(50)
45	Madathilkav Bhagavathi Temple. 9446978314	187/8	Kshetram vaka kanikkamandapam
46	E.V. Varghese ,Ettikal House, Kunnanamthannam P.O.	254/5	Partial impact on house, impact on compound wall and porch, shutter(1)
47	Santhosh K..S, Kalarikkal House, Kunnanamthannam P.O. 9847123995	180/11,28/321,264/6	Partial impact on house, impact on compound wall and gate, partial affected shops(2) Partial effect on shop veranda and sunshade
48	Chirian ,Cheruvillamppurath House, Kunnanamthannam P.O. 9526609680	253/29	Fully impact on house, impact on toilet, well, septic tank, compound wall, gate
49	Somanadhan Nair V.S, Vattakunnil House, Kunnanamthannam P.O. 9605814242	253/1,157/13	Fully effected shops(4), partially affected shops(4)
50	Aravindhakumar, Rajamangalam House, Kunnanamthannam P.O. 8590482238,9145356469/	264/11-1,264/11-2	Fully affected shops(4)
51	Karunakaran Nair, Paranatt Puthaveetil House, Sree Sadhanam	187/8	Impact on toilet, compound wall, septic tank

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	9400882738		
52	Yohannan, Pattaramadathil House, Kunnanamthannam P.O. 9447092385, 8590620860		Partial impact on house, impact on compound wall
53	Cheryan Thomas, Patarumadathil House , Kunnanamthannam P.O. 9605361255	298/421	Slightly impact on house, fully affected shop(1)
54	Nishi Anoop, Kunapilli House, Pallikachira Payipad 9656702123	225/8A/1	Partial impact on shop, impact on toilet, septic tank, fully affected shops(2)
55	Roby Sebastian, Palikaveedu House, Nallukodi P.O, Payipad 9446203256	452/3,1-2	Impact on compound wall, gate, coconut tree(2), plantain(50)
56	Thulasi Sugumaran, Narayanavilasam House, Kottamuri P.O, Payipad 8606734438	478/16	Partial Impact on shop, impact on toilet, fully affected shop(1)
57	Binumon, Valuparampil House, Pallikachira P.O, Payipad 9447432198	433/2-2	Partial impact on new house, impact on toilet, well, septic tank, compound wall, gate
58	Shobasara Kurian, Kaaranath House, Kavala P.O, Payipad 9544227541	491/1-4, 491/6	Partial impact on commercial, impact on toilet septic tank, compound wall, gate, fully affected shops(12), fancy shop, cement

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			shop, medical shop, textiles, studio, tailoring shop, provision store
59	Sujatha G,Dhevaganam House,Nalukodi P.O, Payipad 9447137650	433/2-1	Partial impact on house(1 1/2m length), impact on compound wall, coconut tree(2), teak(2), jackfruit(2), mango tree(2)
60	Suja Chako , Sandosh Bhavan, Pallickachira P.O, Payipad,Changanassery 686537,Kottayam. 9447021957	491/6,491/1-4	Fully impact on house, impact on toilet, well, septic tank, fully affected shops(12)
61	Joseph, Kailaath House,P.C Kavala P.O, Payipad, Kottayam. 9074657700	449/4	Partial impact on shop, impact on toilet, septic tank, compound wall, gate, partially affected shops(14)
62	T.N Prasannakumar, Chengilath House, Nalukodi P.O, Payipad, Kottayam 8606516092	478/10	Fully Impact on shop, fully affected shops(1)
63	Reji Nelson, Veliyaparambil House, PC Kavala P.O, Payipad 854730612	449/3	Partial impact on residential& commercial, impact on toilet, well/borewell, septic tank, compound wall, gate, fully affected bank(1)
64	Suresh K.R, Kuttikatt, PC Kvala P.O, Payipad. 8547016327	449/2	Partial impact on house, impact on compound wall, gate

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65	Vijaya Laxmiyamma, Vegilath House, PC Kavala P.O, Payipad 9947021731		Partial impact on house, impact on toilet, well/borewell, septic tank, compound wall, gate, partially affected shops(4)
66	V.A. Francis, Velliyaparambil,PC Kavala, Payipad 9746862841,9847933920	449/2,466/9,499/3- 1,499/5-1	Fully impact on house, Impact on toilet, well/borewell, septic tank, compound wall, fully affected shops(6 rooms), coconut tree(2),nutmeg(2)
67	Anish Kumar C.V, Narayanam Sadhanam, PC Kavala, Payipad 9744837893	478/20	Partial impact on house, partially affected shops(1), impact on grocery shop
68	G. Unnikrishnan Nair, Nirmalyam, Payipad,Pin:686537 9995447041	478/21	Fully affected shop(1), impact on homeo clinic
69	Sreekumaran Niar ,Thaiparambil House, Kunnanamthannam P.O. 9961581355	478/22	Fully impact on house, fully affected shops(1 room)
70	Jolly Philip, Lillysadanam House, ,Kunnanamthannam P.O. ,Kunnanamthannam ,Pathanamthitta. 9446911082	253/22,254/4	Partial impact on house, impact on well/borewell, compound wall, gate, fully affected shop(3)
71	Thomaskutty, Pulipraputhanpurayil, ,Kunnanamthannam P.O. 8606855125	233/10-4	Partial impact on house, impact on compound wall
72	Premeela K.S, Kalarikkal,		Partial impact on house,

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	Kunnanamthannam P.O. 9446740000		impact on compound wall, gate, fully affected shops(2), partially affected shop(4)
73	Ettikal Varghese Chako, Ettikal House , Kunnanamthannam P.O. 8547392762		Slightly impact on house, impact on well/borewell, compound wall, gate, partially affected shop(1), coconut tree(2)
74	P.C Philip, Paradiyil Naduparamb. 9447907613		Impact on 1 room, sunshade, verandah
75	Sabu Cheriyan, Patarumadathil House, Kunnanamthannam P.O. 9605361255	298/4-1	Slightly impact on house, impact on compound wall, gate, mango tree(2), teak(3), coconut tree(1)
76	Dr. Shaji ,Parayil, Green Villa , Payipad, PC Kavala P.O, 9847206634	454/4-4, 454/4-3	Slightly impact on house, impact on compound wall, gate
77	Muhamad Sahith , Kothachira House, Payipad, Vallikachira P.O, 9447743653	453/16	Impact on sunshade
78	Muhamad Ismail, Kothachira House, Vallikachira ,P.O, Payipad 9072163005	453/11	Slightly impact on house
79	P.V Peethamparan, Varnayil House, Payipad 9426026705	108/6	Slightly impact on house, impact on well/borewell, gate, partially affected shop(2)

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80	Maniyan A.N.,Manimangalam House, Payipad 9633439629		Fully affected shop(1)
81	Sarasamma, Vishnuniyayam , Payipad 9946267778		Slightly impact on house, impact on compound wall, gate
82	Ullas C.E,Chengilath House,PC Kavaka , Payipad 9447144377	491/4, 478/12, 453/13	Fully affected shop(10)
83	Joe Joseph,Mundukottal House, Kunnanamthannam P.O,,Pathanamthitta 9745876890.	195/2,2/2,5,195/7	Slightly impact on house, impact on compound wall, gate, rubber tree(200)
84	Sabhu C. Thomas,Chudukattil House,Neerattupuram,Thalavadi. 995443309	276/8	Partial impact on house, impact on compound wall, gate
85	K.V Vijayan, Minu Bhavan, Kunnanamthannam NR Nadakkal 9447567219	303/2	Partial impact on house, impact on compound wall , gate, mango tree(1)
86	Shamala Kumari, Kayyalath, Nadumala Veetil,Mallappally 9605520456	275/5-15	Slightly impact on house, impact on compound wall, gate
87	Reju Mathew Paramadileuzhiyil , Noorammav,	261/19	Partial impact on house,fully affected shop(1)

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	Anikad 9846551472		
88	A.H Anzary, S/O C.T Hanan Rawther, Alakaparambil House, Mallappally P.O 9497613786	266/16	Partial impact on house, fully affected shop(6)
89	Abraham Joseph, Meckaringattu Blesson Villa, Madukali 9744682217	93/14	Partial impact on house, impact on compound wall, gate, teak(10) jack fruit tree(1)
90	Renju Annie Cheriyan and Biju john , Thechuvilayil, Biju Bhavan ,Chengalloor .P.O 8943951667	255/37	Partial impact on house
91	Blesson George S/O P.C. George, Puthanchiramal, Mallappilli	276/12	Partial impact on house, impact on compound wall, gate, pepper(1), coconut tree(1), jack fruit tree(1), banana tree(1)
92	Joseph Maman Madukolill House, Chengaroor P.O 8330098925	62/2	Partial impact on house, rubber(45), teak(5)
93	Joji .P.Thomas , Panickamalayill House, Mallappilli West 9447262892	268/3	Partial impact on house
94	Tom Thomas	249/2-2	Partial impact on house,

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	Meletharayill House Anikad .P.O Mllappilli 9447081911		fully affected shop (1)
95	Thomas Kuriyan, Thuruthimeppurath House, Mallappilli 9747542625	275/12	Partial impact on house, impact on compound wall, gate
96	Tiju George, Kavungal House, Anikkad .P.O Mallappilli West 8943941667	137/2	Partial impact on house, rubber(15), teak (2)
97	Joji Cheriyan Valakuzhi House Mallappilli West .P.O 9447563845	249/1	Impact on compound wall, partially affected shop(3)
98	Varghese Sebastian Ambiparambil House ,Nedumkkunnam 9496213321	249/2-3	Partial impact on house,
99	S.Manoj Kumar Sreenivedham, Mallappilli West 9447181980	249/4	Partial impact on house, partially affected shop (1)
100	Manoj T Issac Theradiyil House, Paryaram House, Mallappilli 9744505825	261/10	Partial impact on house
101	Bency Sunny, Padickakunnel House, Mallappilli West		Partial impact on house, impact on compound

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	.P.O 9447504870		wall, gate
102	Varghese Mathew, Kalapuracckal House, Mallappilli .P.O 9847939916	1/304	Partial impact on house, fully affected shop (1)
103	Aleece Kuruvila Paduthottu House, Narakatjhani .P.O 8547859090	13/1015, 13/1016	Partial impact on house, impact on toilet, partially affected shop (2)
104	Rajani Eipe Theckanal House ,Mallappilli East. P.O 9526223694	256/11	Partial impact on house, partially affected shop (2)
105	K . M Shaji Puthuparambil House, Veroor .P.O 9605325117	249/5	Fully impact on house, fully affected shop(1)
106	John Thomas , Panickamarayil House, Mallappilli West 9447262892	256/5	Fully impact on house, impact on toilet, septic tank, fully affected shop(5)
107	Roy S Kariah Melekattu House, Chempalloor .P.O Mallappilli 9747916222	256/5-1	Fully impact on house, impact on toilet, septic tank, fully affected shop(9)
108	Rasheed Puthuparambil Cheeranchira .P.O Chanjanenn	249/3-1	Fully impact on house, fully affected shop (2)

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	9846340034		
109	P.M. Mathew, Suja Mathewm Kottarathill Kazakajil House, Anikad.P.O Mallappilli West 9846716688		Tapioca(1) chembu (1)
110	John Puthamadam House, Anikad .P.O Mallappilli 9961274535		Coconut tree (10), jack fruit (5), rubber(110)
111	Sossamma Thomas, Padikkal House. Anikad .P.O 9544483861		Slightly impact on house, coconut tree(5), pepper (3)
112	Thomas Varghese Poikayia House, Anikad .P.O 8078353860		Rubber (15) banana tree (18)
113	Manu N.R Njaliplackal House, Anikkad .P.O 9567062098		Coconut tree(15) Rubber(25)
114	Thomas Philip Thimuriyil House,Chellakobe .P.O 9656916257		Banana tree(15) Coconut tree(10)
115	Biji K Alex, Kanakkad House ,Anikkad .P.O Mallappilli West 9447408208	137/3	Mango tree(2), Jackfruit tree(4),Coconut tree(5)

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116	Jinoy George Parolickal House, Anikkad P.O 9447324494	132/5, 132/6	Mahagony(7), Rubber(12), Coconut tree(15)
117	Omana Abraham, Lijo Abraham, Abraham V A Varikkamakal (H), Anikkad P.O 689585 9645075059		Teak(3), Bamboo(2)
118	Jolly Jacob, Veettukal House ,Munthuppally P O 8943059251		Slightly impact on house, impact on gate .Coconut tree(5), Rubber(6), Teak(10)
119	T P Philip Thimuriyil House ,Nedukunnam P O 689589 9947547530		Coconut tree(2), pepper plant(4),jackfruit tree(5), mango tree(1) banana tree(20)
120	Sasi T K and Nirmala 9995476530	258/6.5, 258/8.9	Slightly impact on house, rubber(4), jackfruit tree(1)
121	Koshy Mathew Ettikkal House ,Kunnamthanam P O Maliappilly 689581 9447562920	154/9	Partially affected shops
122	Sakariya T M Thannikkapaikayil House, Chelakomb P O Karukachal, Kottayam 686540 9207288893	280/6	Impact on compound wall, gate

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123	George V.M Varikamakal (H) ,Anikkad P O Mallappally 944464241		Slightly impact on house
124	Shaji K George, Kanakattu (H), Annikkad P O Mallappally West 689585 9495443886		Partial impact on house, impact on compound wall, gate, teak(1)
125	Nainan Umman Tharappill House , Anikkad P O Puvanpara 9446287914		Partial impact on house, aanjili(2)
126	Rajan Thappukalalal House , Annikode P O Malappally West 689585 , 9864113608		Partial impact on house, impact on compound wall, gate, partially affected shops(1), coconut tree (1)
127	K O Kurian Kollamkunnel House ,Annikode P O mallappally 689585 7902509641		Slightly impact on house, impact on compound wall, teak(3), jack fruit(1), aanjili(1)
128	Mercy Mathew Tharapil House , Annikodu P O Puvampura 9947185523		Partial impact on house, impact on compound wall, gate, aanjili (2)
129	N R Mohanan Njalipackal House , Anikode P O ,allappally 689585	145/221	Kaappi tree(3), coconut(1)

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130	Suresh P Abraham Payyampallil House , Mallappally West 944783639		Impact on parking
131	Valsala Balan, Nadanala Kayyeleth, P.O Malapally West 7025796141	301/15	Land
132	Sojan Mathew, Palackamanil House, Malappally west 9446709223	219/2 , 219/12 , 219/10	Impact on compound wall, gate
133	Ribu, Aniamma Mathew, Bini , Anu Mathew Kunnath House, Malapally west 9496731156	279/9, 279/9-1 , 279/9-1-1	Impact on compound wall, jack fruit(2), mango tree(1), banana tree(5)
134	Sagara Rajan, Nadamala Kayyalath, Malapally west, opposite HDFC bank, Malapally 6238860724	275/5	Slightly impact on house, impact on compound wall
135	Chandy Mathew, Theradapuzha, Malapally West 9539779797	30/2-1	Impact on compound wall, gate, coconut tree(1)
135	Abraham C Philip, Chavanickamannil, Malapally 9447364496	261/18, 261/25	Partial impact on house, fully affected shops(1)

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137	T.M Eapan, Therdapuzha House, Malapally west 9744283133	300/2	Impact on compound wall, gate, coconut tree(2), teak(1), jack fruit(1)
138	Cheriyen Alexander, Manjanamkuzhiyil house, Chenganoor P.O 9446114272	267/5-1 , 267/5	Impact on well/borewell, impact on compound wall
139	Manoj Mathew Vazhepparambil House, Malappally North 9496542916	267/3	Impact on toilet, septic tank
140	Thomas Samuel, Keecheril building, Malapally west 9747053311	249/3	Partial impact on house, fully affected shop(1)
141	Thomas Samuel, Keecheril building, Malapally west 9747053311	261/20	Partial impact on house, partially affected shops(2)
142	Shivadasa Kurup Palamattathil Remya Nivas, Malapally west 9446754044	255/5-1, 255/5-2, 255/5	Partially affected shop(9)
143	Abraham Thomas Meletharayil House, Anikkad P.O Malapally west 9744193589	249/2	Partially affected shops(1), impact on buildings

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144	K.V Abraham Kalarickal, Kadamuri, Pariyaram 9605812085	255/3-2	Partially affected shops(1)
145	Jean Mathew Chavarukalayil House, Malapally west 9745650026	261/17	Impact on toilet, partially affected shops(1)
146	Bindhu Chathanattu Buildings, Malapally 7558801422	256/6	Impact on toilet, septic tank
147	Chandrasekharan Nair, Thalapallil House, Malapally west 9496108106	216/3	Slightly impact on house, impact on compound wall, gate, coconut tree(1)
148	Sunny A.P Alappatt, Sankarathumpady, Mullapally 9447802751	369/10,11 270/2.2	Partial impact on house, impact on septic tank
149	P. M Varghese Poykayil House, Chelakomb, Nedunkunnam 9846909494		Slightly impact on house, rubber(3), coconut tree(3) jack fruit tree (3), kaappi(5), coco(1), pepper(1)
150	Jiju Mathew 9847252085	208/5-1	Partial impact on house, impact on well/borewell, septic tank, impact on gate, fully affected shops(5), partially affected shops(3)

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151	John V Abraham Vannath House, Kuttapuzha P.O Thiruvalla 689103 9447106493	200/2	Slightly impact on house, impact on compound wall, gate, partially affected shops(3)
152	Aneev Easow Samuel, Anand Villa, Kuttapuzha, Thiruvalla 8281382893	208/6-1	Slightly impact on house, impact on compound wall, gate, teak(2),mango tree(3)
153	Andrews Chacko, Kottupallil House, Sachivothamaporan P.O Kurichy, Kottayam 8113957218		Rubber(25), teak(5)
154	T I George Thekkemannil house, Mallappally North 0469-2682292	38/1,38/2, 139/1, 38/4	Compound wall, Gate
155	T.P George Chilanka Theater, T.M Road, Thiruvalla	313/2, 313/3	Compound wall, Mango tree-1, Cocounut tree-3
156	T.P George Chilanka Theater, T.M Road, Thiruvalla	315/2-3	Well, Coconut tree-5
157	Santhosh K S Kalarickal, Kunnamthanam 9847123995	180/11, 28/3-1	Compound Wall, Gate

5.2 Family of scheduled tribes and other traditional forest dwellers who have lost any of their forest rights

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Neither Scheduled Tribe families nor any traditional forest dwellers are being affected by the project.

5.3 Families which depend on common property resources which will be affected due to acquisition of land of their livelihood

None of the common property resources are being affected due to the project.

5.4 Families which have been assigned land by the State Government or the Central Government under any of its schemes and such land is under acquisition

No such families are residing in the project area.

5.5 Families which have been residing on any land in the urban areas for proceeding three years or more prior to the acquisition of the land

No such families are residing in the project area.

5.6 Families which have depended on the land being acquired as a primary source of livelihood for three years prior to the acquisition

The project area comprises of shops and agricultural land. The land owners who are doing business in the affected structures and those who are given for rent revealed in the survey that the income from the project area is the major income of their family. Most of the affected shop owners took loans from bank to run their business. Out of the 159 land owners surveyed 72 families shared that their major source of income will be affected due to the project. Besides tenants who have been done business in the affected land and employees working in the affected shops/firms will lose their livelihood.

5.6.1 Families which are indirectly impacted by the project (not affected directly by the acquisition of own lands)

SIA unit could identify 25 tenants who have been done business and the employees who have been working in the project area for 3 and more years.

5.6.2 Inventory of productive assets and significant lands.

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SIA unit understands that the land uses for agriculture, commercial and residential purposes are included in acquisition. Presently unused open land are also there in the project area. No land is included in acquisition which is presently having major agriculture like paddy. However the land in which having lot of coconut trees, rubber and tropical agriculture like tapioca, plantain etc are included in acquisition. Besides the above, the trees in the project area may be cutdown for the project. The name and approximate number of trees in the affected land is mentioning in the Table 5.6.2.1.

Table 5.6.2.1. The Trees may be affected in the area

Name of the Tree	Approximate Number
Jackfruit tree	35
Rubber	584
Teak	75
Coconut	108
Mango tree	17
Mahagani	17
Nutmeg	2
Plantain	114
Pepper	19
Rumboottan	1
Anjili	8
Thanalmaram	1
Bamboo	2
Guava	1
Tappioca	50
Pana	4
Coffee	6
Cocco	1
Paazhmaram	1
Total	1046

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CHAPTER 6
SOCIAL ECONOMIC AND CULTURAL PROFILE
(AFFECTED AREA AND RESETTLEMENT SITE)

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, enumeration of the livelihood affected families and other related information.

Social Impact Assessment Unit could identify 159 project affected land owners through the survey conducted in the affected area. The SIA unit studied the socio-economic background of all families through a socio-economic survey by using a specific questionnaire. This chapter analyzes the socio-economic background of the 159 families of the project affected land owners.

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6.1 Demographic details of the population in the project area

Among the project affected families only 10 are staying in the land proposed to be acquired for the development of Thiruvalla-Mallappally-Chelakombu road project. The following details are about the demographic situation of the 159 families of the project affected land owners.

Figure 6.1.1 Gender

Out of 567 total population of the affected families 281 (50%) are male members and 286 (50%) are females.

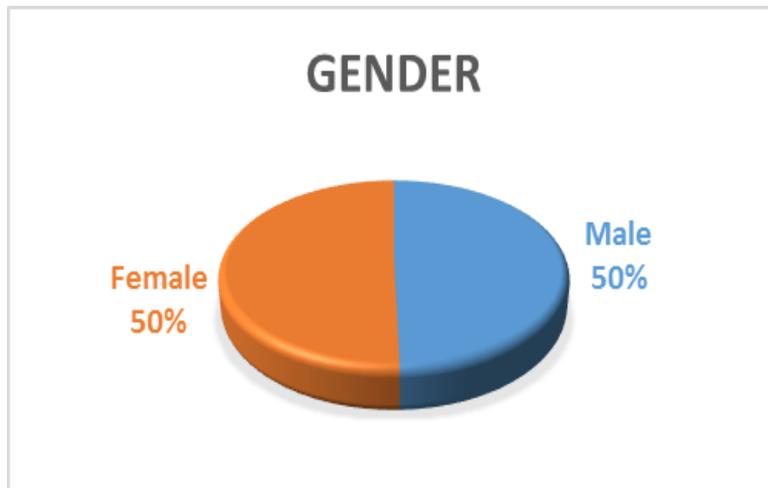
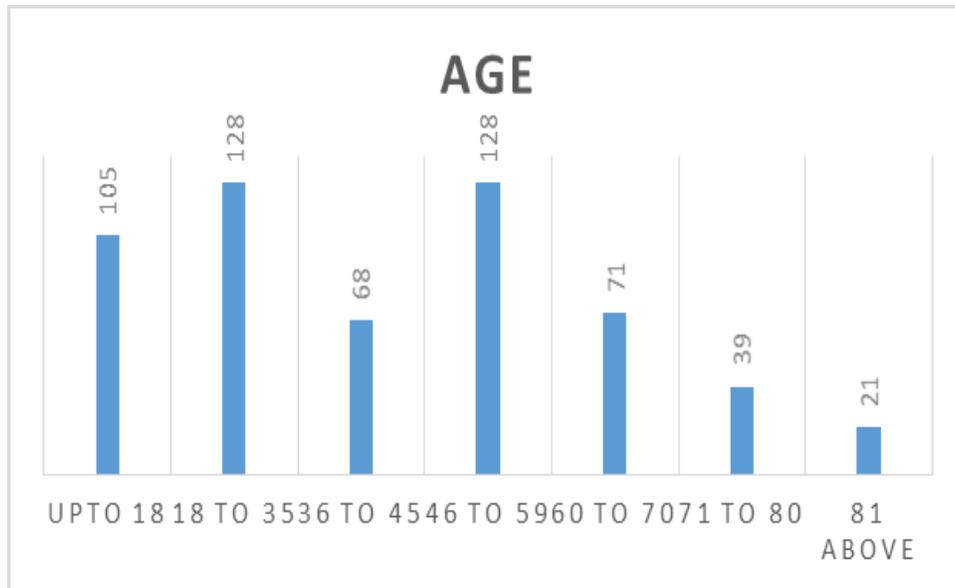


Figure 6.1.2 Age of the Project Affected Family Members

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.



Among the total project affected family members 105 are in the age group of 0-18 and 128 are in the age group of 18-35. 68 family members are in the age group of 36-45 and 128 members are in the age group of 46-59. There are 131 elderly members in these families out of them 71 are in the age group of 60-70, 39 members are in the age group of 71-80 and the remaining 21 members's age is 80 and above.

Figure 6.1.3 Education

With regard to the educational background of the affected persons, survey reveals that 35 and 4 persons are either pursuing or completed B.Tech and M.Tech respectively. 8 persons have LLB degree. 81 persons have professional qualification. 54 persons are either completed or pursuing post graduation course. Number of individuals having degree qualification is 108. While 85 having plus two qualification. Number of individuals having UP school and High School qualification are 25 and 93 respectively. 32 persons are either studying or completed L.P school.

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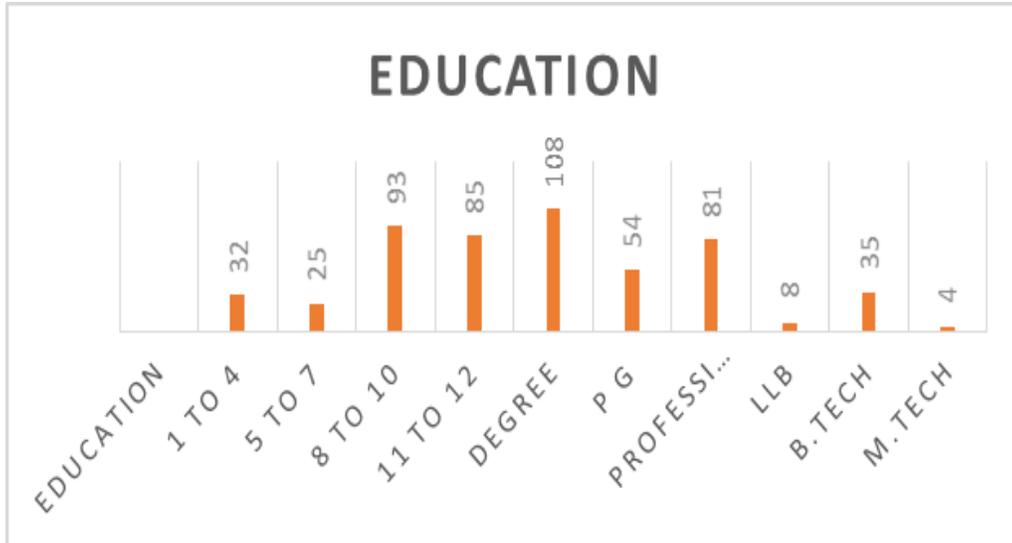
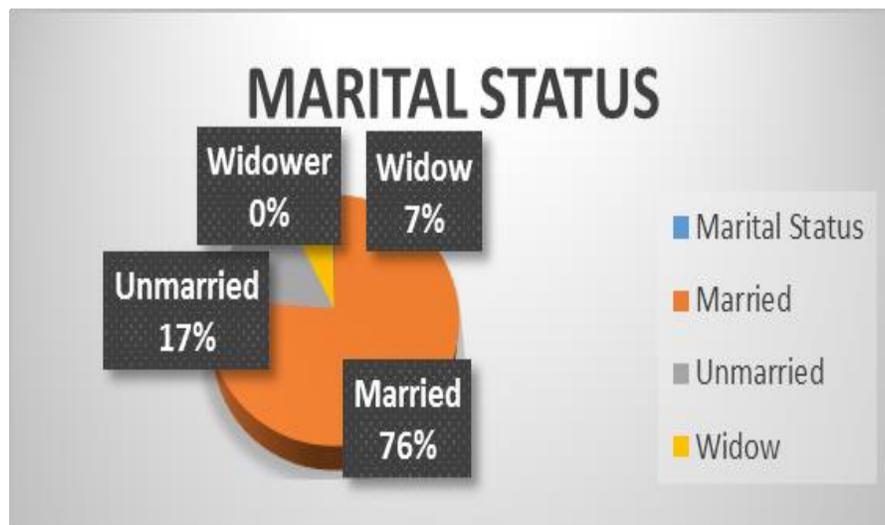


Figure 6.1.4 Marital Status

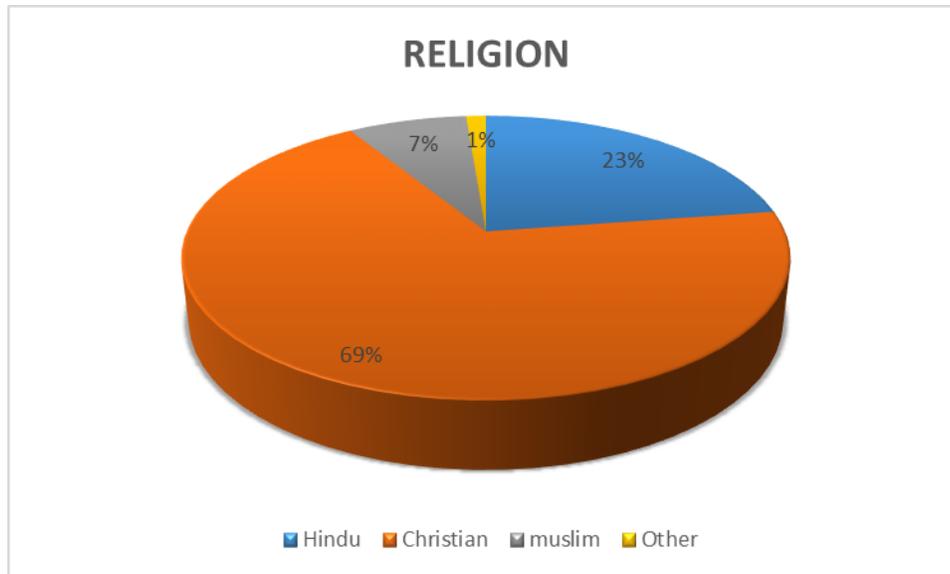
Figure 6.1.4 furnishes the marital status of adults in the affected families, most of the population is married (N=344) and Seventy four (74) are reported as unmarried. Survey also counts 33 widows and 1 widower.



Social Background of the Project Affected Families

Figure 6.1.5: Religion of the Project Affected Families

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallooppara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.



The figure 6.1.5 depicts that majority of the project affected families is 109 (69%) families belong to Christian religion, 36 (23%) families belong to Hindu religion and 12 (7%) families belong to Muslim religion and 2 families (1%) belongs to other category.

6.2. Income and poverty levels

Based on the Public Distribution System it is understood that out of the 159 project affected families 3 families possessed pink colour ration card, 35 families possessed blue colour ration card, 109 families possessed white colour ration card and 3 families have no ration card and 9 families doesnot responded to the ration card they possess. Fig.6.2.

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

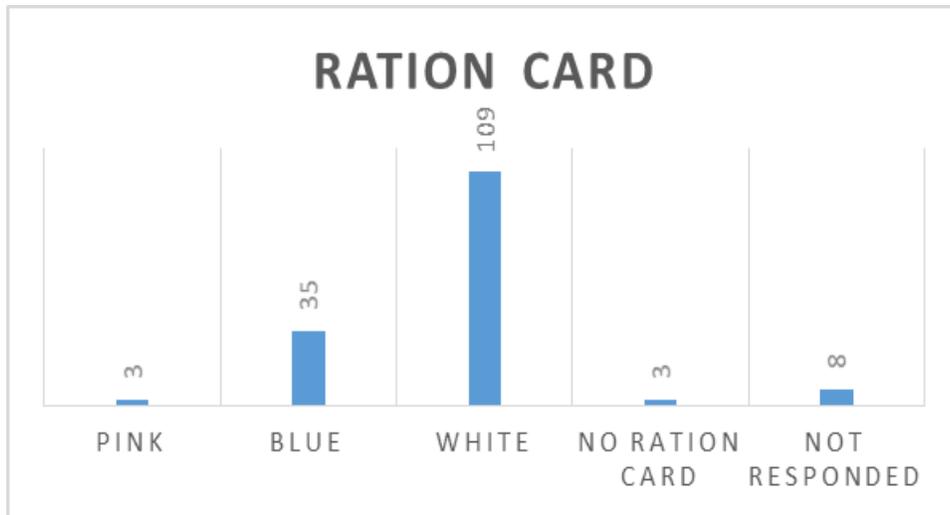
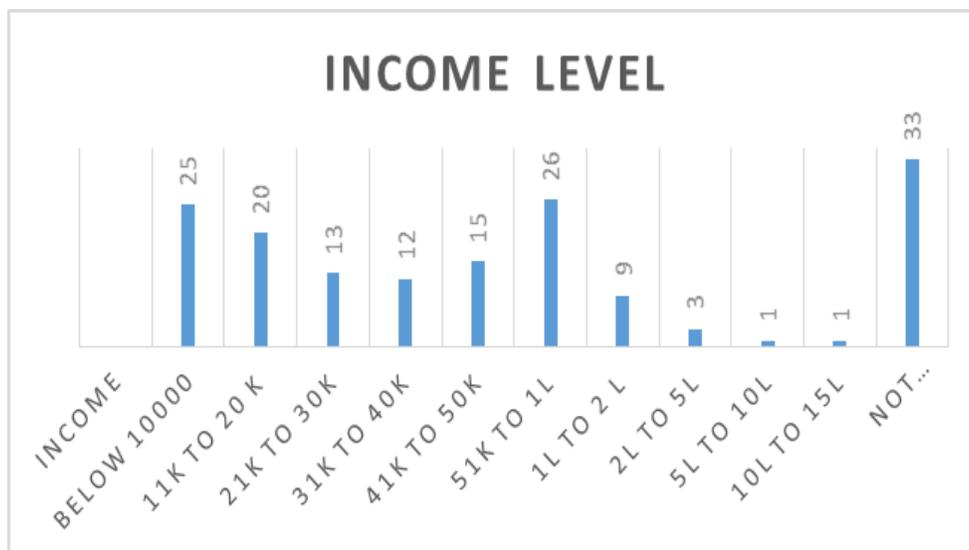


Figure 6.2.1: Income level



The figure 6.2.1 does a comparison about the families' monthly income. 25 families revealed that they earn below Rs.10000. 20 families having the monthly income between Rs.11,000/- and Rs.20,000/- rupees. While 13 family earns in between Rs.21,000-30,000/- rupees. Rs.31000-40000 is the earning of 12 families. Rs. 41000-50000 is the earning of 15 families. 26 families comes under the range of Rs 51000-100000 as their earning. While 9 families get a monthly income of Rs.1 L-2 L. The number of families is 3,1 and 1 are in the range of Rs.2 L-5 L, 5 L – 10 L and 10 L -15 L respectively as earnings. 33 families did not respond to their income.

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6.3 Vulnerable groups

105 members of the directly affected families are below 18 years of age and there are 131 elderly is in the age of 60 and above among the affected population. There are 33 widows and 1 widower among the affected family members. The survey also reveals 12 family members are suffering from major diseases like cardiac, kidney failure, cancer, etc. and also there are mentally retarded, handicapped, paralyzed persons were in the affected group.

6.4 Land use and livelihood

Land use pattern of the project area shows a mix up between agricultural, commercial and residential uses. Presently unused open land is also there in the project area. Among the 159 land properties 5 are unused land with no specific usage presently, 25 are using for agricultural purpose, 47 are using for residential purpose and 54 are using for business purpose. Out of the 159 land owners surveyed 72 families shared that their major source of income will be affected due to the project out of which 60 families will lose their business, 35 families will lose the income from the agricultural land. Besides 25 tenants who have been doing business in the affected land and employees working in the affected shops/firms will lose their livelihood.

6.5 Local economic activities

The project area is having shops and some business enterprises. Besides there are agricultural land in which coconut, tapioca, rubber, nutmeg etc are cultivating. Shops and the agriculture of 35 families will be affected due to the project.

6.6 Factors that contribute to local livelihoods

The project area comprises of shops and agricultural land and plain land. Agricultural activities are undertaken in few land properties. Most of the affected families are not staying in the said land. It is understood that the business of 60 families is affected due to the project.

6.7 Kinship patterns and social and cultural organization

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Most of the Project affected families are nuclear families. None of cultural or social organization will be affected due to the project.

6.8 Administrative organization

None of the administrative organisations are being affected by the project.

6.9 Political organization

Major political organisations are situated near the project area. None of the political organisations are affected due to the project.

6.10 Community based and civil society organizations

No such organisations are being affected by the project.

6.11 Regional dynamics and historical change processes

Thiruvalla is also famous for the dance of Kathakali, which is hosted in the Sreevallabha temple almost every day in a year. Thiruvalla is regarded as the "Land of Non resident Indians". The development of a good infrastructure is an essential pre-requisite for the growth and development of the region.

6.12 Quality of the living environment

The project area is heavily built up with commercial centres, public buildings, private institutions, religious structures and residential plots. Besides there are used or unused open lands which are suitable for agriculture. People of the area are having better access to all necessities of life.

CHAPTER 7

SOCIAL IMPACT MANAGEMENT

7.1 Approach to mitigation

To assess the mitigation, the expert research team of SIA Unit has adopted an approach that is spanned in four phases. In the first phase, a physical observation of the area was held and conducted a pilot study to understand major risks and opportunities involved with the project. Later the affected families Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

was surveyed by using a structured questionnaire and collected details on the socio-economic background of the families, dynamics of risks of each affected families etc were collected. To understand the common risks and advantages involved with the project, in-depth interviews were held with selected key persons and stakeholders of the project. As the 4th stage a Public Hearing is proposed to be held in different timings as per covid 19 protocol on 18/08/2021. The Draft Report of SIA which was prepared on the basis of the scientific assessment of the data received through the various stages of study will be presented in the public hearing. The affected families and the stakeholders will get an opportunity to suggest additions or deletions to the report.

7.2 Measures to avoid mitigate and compensate impact

The proposed land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road Project is planned by the requiring body by minimizing the impact in the most possible manner. However it is understood that the project cause impacts like loss of land, structures, livelihood etc. to the families. Following measures can be taken to mitigate the above said impacts:

- Compensation shall be provided to the affected families as per the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013 and Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015.
- R&R package shall be provided for the affected properties as per the Policies vide G.O.(Ms)No.485/2015/RD dated 23/09/2015 and G.O.(MS)No.448/2017/RD dated 29/12/2017 issued by Revenue(B) Department, Government of Kerala for the rehabilitation and resettlement package for acquisition of land in the state in lieu of RFCTLARR Act 2013.
- For avoiding residential problems of the families timely rehabilitation measures shall be taken for the affected houses.

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- If the partially affected houses/shops need maintenance and the stay/functioning would be impossible for that period, the amount for a rented house/amount for livelihood will be compensated for the said period.
- Rehabilitation measures will be taken before the evacuation of the houses to not cause more impact on the livelihood of the families.
- Ensure that the functioning of the shops which are not included or partially included in the acquisition is not hindering during the project construction period. Otherwise consider for compensation for the affected livelihood during the construction period
- The resettlement of the basic facilities like toilet, septic tank, well etc will be ensured without causing inconvenience to the families.
- If land remains after acquisition will be legally insufficient to reconstruct the affected houses, shops etc either consider it for full acquisition or possible concession shall be given for the reconstruction in the remaining land based on the existing laws, if needed.
- Based on the legal documents consider the tenants and employees for R&R package who have been doing business in the affected structures /working in the affected enterprises for 3 and more years
- For the protection of the environment perpetuate the trees in the affected area as far as possible and measures should be taken for replantation in lieu of the destroyed trees
- During the project construction period the unhindered entry to the nearby houses and shops, convenient mobility of the people and vehicle and scientific and timely disposal of the construction waste shall be ensured.

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7.3 Measures that are included in terms of Rehabilitation and Resettlement and Compensation as outlined in the Act

Measures for providing compensation and Rehabilitation and Resettlement package as per the RFCTLARR Act 2013 and the Policies issued by Revenue (B) Department, Government of Kerala vide G.O.(MS)No.485/2015/RD dated 23/09/2015 and G.O.(Ms)No.448/2017/RD dated 29/12/2017 for the rehabilitation and resettlement package for land acquisition in the state in lieu of RFCTLAR&R Act 2013 are applicable for the project of land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road project.

7.4 Measures that the Requiring Body has stated it will introduce in the project proposal

The Estimated Project cost is mentioned in the Detailed Project Report.

7.5 Alterations to project design and additional measures that may be required to address the extend and intensity of impacts across various groups as identified during SIA

Requiring body is planned the project alignment in such a way to cause very minimum impacts to the families. Traders in the mallappally town has suggested some alterations to the alignment during the SIA study.

7.6 Detailed Mitigation Plan including detailed activities to be carried out for each mitigation strategy, timelines for each mitigation strategy

The social impacts of the proposed land acquisition can be mitigated by providing compensation and R&R package to the affected families as per the Policies issued by Revenue (B) Department, Government of Kerala vide G.O.(MS)No.485/2015/RD dated 23/09/2015 and G.O.(Ms)No.448/2017/RD dated 29/12/2017 for the compensation and R & R package for land acquisition in the state in lieu of RFCTLARR Act 2013 by strictly following the time plan and procedures stated in the Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015. On the basis of the scientific assessment of the data obtained through the SIA study a Social Impact Management Plan is prepared, to mitigate the impacts

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of land acquisition for the development of Thiruvalla-Mallappally-Chelakombu road, which is given in Table 7.6.1.

Table 7.6.1. Social Impact Management Plan

Sl. No.	Impacts	Impact Management	Time Plan	Monitoring Indicators
1	Loss of land	Provide compensation as per the 1 st schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government	Time frame as per the Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015.	Sensitize the affected families about the reasonable price and other legal benefits of the land is providing
2	Loss of the properties attached to the land	Provide compensation as per the 1 st schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government		Assets should be measured in the presence of the land owners and inform them the procedures of its valuation
3.	Impact on residences including displacement	Provide compensation and R&R package as per the 1 st & 2 nd schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government		Speedy resettlement procedures. Resettlement before displacement. Ensure the families will not face difficulty for stay

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				and basic facilities even for a day.
4	Loss of livelihood/income	Provide R&R package as per the 2 nd schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government		Reasonable consideration for the dropping livelihood of the owners and also for the tenants and employees who have been working in the affected structure for 3 and more years based on the legal documents
5	Evacuation of shops	Provide compensation and R&R package as per the 1 st & 2 nd schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government		Resettlement procedures before the evacuation of shop to avoid losing livelihood of families even for a day
6	Impact on Agriculture/trees	Provide compensation and R&R package as per the 1 st & 2 nd schedule of RFCTLARR Act 2013 and the related policies of Kerala State Government. As far as possible protect the trees in the area otherwise measures to be taken to replant equal number of		Undisturbance of environment of the area

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		destroyed trees		
7	Insufficient land for reconstruction	Consider full acquisition/possible concession in legal procedures for construction, if needed		Reasonable consideration for the affected house, basic facilities and livelihood measures
8	Possibility of business distraction during project construction period for the structures not included in acquisition /partially affected	Plan the construction activities without disturbing the business activities in the area. If it will be disturbed provide compensation for that period		Undisturbed business activities and livelihood of the families in the region during the project construction period
9	Possible distraction in vehicle and people's movement during project construction period	Measures for safety, seamless vehicle movement, undisturbed people's mobility etc. should be planned before project construction period.	Plan before the project construction period.	Plan and execution of the measures for unhindered traffic and people's mobility during project construction period
10	Waste formation during construction	Scientific and timely disposal of construction waste.	Plan for waste disposal before construction period	Ensure the wastage is properly disposed before the commissioning of the project without causing environmental issues to the area.

7.7 The SIA plan indicating which measures the Requiring Body has committed to undertake and those that have been proposed, but not committed to be undertaken by the Requiring Body
Not Applicable

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CHAPTER 8

SOCIAL IMPACT MANAGEMENT PLAN INSTITUTIONAL FRAMEWORK

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

8.1 Description of institutional structures and key person responsible for each mitigation measures

RFCTLARR Act, 2013 section 43 and The Kerala RFCTLARR Rules 2015 Rule 22 define the Administrator appointed by the State Government would be the person responsible for Preparation of Rehabilitation and Resettlement Scheme for affected families of Land Acquisition. Subject to the superintendence/ directions / control of the appropriate Government and the Commissioner for Rehabilitation and Resettlement, the formulation, execution and monitoring of the Rehabilitation & Resettlement Scheme shall vest with the Administrator. Special Tahsildar (LA) is the Administrator of the land acquisition from Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts for the project of development of Thiruvalla-Mallappally-Chelakkombu road.

As per The Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules,2015 and the Policy framed by the State government via G.O. (Ms) No.485/2015/RD, dated 23/09/2015, 2 committees shall be constituted for the land acquisition in Kerala State.

1. District Level Fair Compensation, Resettlement and Rehabilitation Committee comprises the following members:
 - District Collector
 - Administrator for resettlement and rehabilitation
 - Land Acquisition officer,
 - Finance Officer
 - Representatives of the requiring body empowered to take financial decisions on its behalf.
 - Representatives of Local Self Government Institution of the project area
2. The State Monitoring Committee for Rehabilitation and Resettlement comprises the following members:
 - Chief Secretary
 - Revenue Secretary
 - Secretary of the Administrative Department

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- Law Secretary
- Finance Secretary

The District Level Fair Compensation, Resettlement and Rehabilitation Committee will finalize the estimate of a fair and reasonable price of land and compensation along with the Rehabilitation and Resettlement package to be given to the affected person/ family and submit the same to the State Level committee. The State Level Empowered Committee shall approve the estimate or return it for reconsideration with suggestions/observations.

After the approval of the State Level Monitoring Committee the District Level Fair Compensation Resettlement and Rehabilitation Committee shall present the estimated compensation and resettlement and rehabilitation package to the affected family or affected person and explain the terms and conditions of the same. Upon receiving the consent of the affected person or affected family, the District Level Fair Compensation Resettlement and Rehabilitation Committee shall submit the consent along with the minutes of its proceedings to the District Collector for finalizing the conveyance of land in terms of the consent. The Compensation and package agreed upon shall be paid into the bank account, the details of which shall be submitted by the affected family or affected person along with the consent. On completion of the conveyance the Collector shall take possession of the land.

8.2. Specify role of Non-Governmental Organizations

RFCTLARR Act 2013 section 4 insist to conduct a Social Impact Assessment study whenever the Government intends to acquire land for a public purpose. As per the Rule 9 of The Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015, the Government shall empanel the individuals/ organizations as Social Impact Assessment units to conduct the Social Impact Assessment study of the land acquisition. Hence Rajagiri outREACH is entrusted by the Revenue (B) Department, Government of Kerala via Notification No. G.O.(P)No.107/2020/RD dated 18th December 2020 to conduct the Social Impact Assessment Study of the land acquisition for Thiruvalla-Mallappally-Chelakombu road Construction Project. Therefore Rajagiri outREACH, the SIA agency is responsible to conduct procedures for Social Impact Assessment including Public Hearing.

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8.3. Indicate capacities required and capacity building plan, including technical assistance if any

Not applicable

8.4 Timelines for each activity

Timeline for each activity of the land acquisition will be as per the Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules, 2015.

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CHAPTER 9

SOCIAL IMPACT MANAGEMENT PLAN BUDGET AND FINANCING OF MITIGATION PLAN

9.1 Costs of all resettlement and rehabilitation costs

Revenue (B) Department, Kerala Government put out the survey numbers of the land to be acquired for Thiruvalla-Mallappally-Chelakombu road development via Notification No. G.O.(P)No.107/2020/RD dated 18/12/2020 which reveals that the total extend of land requires for the project is 2.3835 hectares approximately. The SIA unit could identify 159 affected families. Through the Social Impact Study, the SIA unit could understand that the project requires rehabilitation and resettlement as it causes displacement of 8 families, evacuation of 60 shops, livelihood loss of 72 individuals, lose of agriculture of 35 families and lose of properties attached with the land. The quantities of various items of work are worked out based on the detailed plans, profile and cross sectional elements. The quantities of the items under Site Clearance, Earth Works, Sub-base and Base Courses, Bituminous/Cement Concrete Courses, Road Junctions, Drainage and Protective Works, Bridges, Culverts, Road Markings & Other road appurtenances and Rehabilitation etc. have been computed based on the design.

9.2 Annual budget and plan of action

Not Applicable

9.3 Funding sources with break up

Not Applicable

CHAPTER 10

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

SOCIAL IMPACT MANAGEMENT PLAN MONITORING AND EVALUATION

10.1 Key monitoring and evaluative indicators

- Land price and compensation amount
- Time frame of the procedures for compensation, Rehabilitation and Resettlement
- Construction Activities without hindering the business activities and access to the nearby properties
- Time bound and scientific clearance of construction waste from the site

10.2 Reporting mechanisms and monitoring roles

Reporting mechanisms and monitoring roles of the land acquisition for the Thiruvalla-Mallappally-Chelakombu road construction Project will be as per the Rules stated in the Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015. The Special Tahsildar (LA) is the Administrator of the proposed project and he is responsible for the formulation, execution and monitoring of the Rehabilitation & Resettlement Scheme. A draft of the Rehabilitation & Resettlement Scheme prepared by the Administrator shall be finalized by the District Level Rehabilitation and Resettlement Committee formed for the project and shall be approved by the State Monitoring Committee.

10.3 Plan for independent evaluation

Not applicable

CHAPTER 11

ANALYSIS OF COSTS AND BENEFITS

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

AND RECOMMENDATION ON ACQUISITION

11.1 Final conclusions on assessment of public purpose, less displacing alternatives, minimum requirements of land, the nature and intensity of social impacts, and viable mitigation measures will address costs

The project road is located in the district of Pathanamthitta and Kottayam, starts at Thiruvalla which is the largest Junction and covers Kuttappuzha, Payippadu, Kunnamthanam, Kallooppara, Mallappally, Anikkad and chelakombu and reaches Nedumkunnam-Kavanalkadavu road. This serves the public access to Thiruvalla Junction from unconnected remote locations. This improves socio-economic facilities like tourism, healthcare, education etc. The traffic congestion of this area can be controlled by widening and standardizing road which saves the precious time and life of the public. The railway station road and bypass road also needs improvement which is also very sharp and requires improvement.

Requiring Body finalised the present alignment while considering minimum impacts to the land owners. The project area is heavily built up with commercial centres, public buildings, private institutions, religious structures, residential plots, agricultural land and vacant land. The proposed road has a total length of 20.4 km and passes mostly through private lands, commercial buildings in town area etc. However the land acquisition causes impacts like loss of land, displacement of families, evacuation of shops, loss of livelihood etc. The SIA unit could identify 159 owners of affected land properties. Out of these families 8 families have to be displaced from the affected land. Besides evacuation of 60 shops, livelihood loss of 72 individuals, lose of agriculture of 35 families and lose of properties attached with the land are been identified as impacts. All the families surveyed has an anxiety towards the project as it causes various impacts. Mostly people doing business in the area have anxiety towards the project. The alignment when it comes to junctions or town areas causes destruction to several business units. Hence the impacts of the project can be mitigated by providing compensation and R&R package as per the RFCTLARR Act 2013 to the project affected families.

11.2 The above analysis will use the equity principle as a framework of analysis for presenting a final recommendation on whether the acquisition should go through or not.

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallooppara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

Based on the analysis and assessment of the positive and negative impacts of the land acquisition for Thiruvalla-Mallappally-Chelakombu road development Project it is understood that the project is expected to improve quality of living in the region and also the infrastructure of the state and the same is empathized by many of the affected persons despite the adverse impact the project brings. Hence the SIA Team recommends the project of Land Acquisition from Thiruvalla, Kuttappuzha, Kunnanthanam, Kallooppara, Mallappally, Anikkad, Payippadu, Nedumkunnam villages of Pathanamthitta and Kottayam districts for Thiruvalla-Mallappally-Chelakombu road development Project shall be implemented with the existing land acquisition plans. The following measures are recommended to mitigate the impacts:

- Compensation shall be provided to the affected families as per the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013 and Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015.
- R&R package shall be provided for the affected properties as per the Policies vide G.O.(Ms) No.485/2015/RD dated 23/09/2015 and G.O.(MS) No.448/2017/RD dated 29/12/2017 issued by Revenue (B) Department, Government of Kerala for the rehabilitation and resettlement package for acquisition of land in the state in lieu of RFCTLARR Act 2013.
- For avoiding residential problems of the families timely rehabilitation measures shall be taken for the affected houses.
- If the partially affected houses/shops need maintenance and the stay/functioning would be impossible for that period, the amount for a rented house/amount for livelihood will be compensated for the said period.
- Rehabilitation measures will be taken before the evacuation of the houses to not cause more impact on the livelihood of the families.

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- Ensure that the functioning of the shops which are not included or partially included in the acquisition is not hindering during the project construction period. Otherwise consider for compensation for the affected livelihood during the construction period
- The resettlement of the basic facilities like toilet, septic tank, well etc will be ensured without causing inconvenience to the families.
- If land remains after acquisition will be legally insufficient to reconstruct the affected houses, shops etc either consider it for full acquisition or possible concession shall be given for the reconstruction in the remaining land based on the existing laws, if needed.
- Based on the legal documents consider the tenants and employees for R&R package who have been doing business in the affected structures /working in the affected enterprises for 3 and more years.
- For the protection of the environment perpetuate the trees in the affected area as far as possible and measures should be taken for replantation in lieu of the destroyed trees
- During the project construction period the unhindered entry to the nearby houses and shops, convenient mobility of the people and vehicle and scientific and timely disposal of the construction waste shall be ensured.

REFERENCES

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.

1. The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.
2. Kerala Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Rules 2015.
3. Kerala State Policy issued by Revenue (B) department G.O.(MS)No. 485/2015/RD dated 23.09.2015 for fair compensation and transparency
4. Kerala State Policy for Rehabilitation and Resettlement Package for acquisition of Land in the State in lieu of RCFTLAAR Act, 2013 G.O. (Ms) No. 448/2017/RD dated 29/12/2017
5. Detailed Project Report Prepared by Road Infrastructure Company Kerala Limited

Land Acquisition for the development of Thiruvalla Mallappally Chelakombu Road in Thiruvalla, Kuttappuzha, Kunnamthanam, Kallappara, Mallappally, Anikkad, Payippad, Nedumkunnam villages of Kottayam and Pathanamthitta Districts.