

Traffic and Transportation Study for Preparation of DPR for PRT System in Haridwar City

Submitted to:



DELHI METRO RAIL CORPORATION

**Metro Bhavan, Fire Brigade Lane,
Barakhamba Road,
New Delhi -110001**



FINAL REPORT

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Submitted by



ICRA ANALYTICS LIMITED



List of Abbreviations

AADT	Annual Average Daily Traffic
ADT	Average Daily Traffic
ATL	Average Trip Length
BHEL	Bharat Heavy Electricals Limited
CAGR	Compound Annual Growth Rate
DMRC	Delhi Metro Rail Corporation Limited
DPR	Detail Project Report
IPT	Intermediate Public Transport
MB	Mid-Block
OD	Origin Destination
PT	Public Transport
RSI	Road Side Interview
TVC	Traffic Volume Count
PCTR	Per Capita Trip Rate
PRT	Personal Rapid Transit
SIIDCUL	State Infrastructure and Industrial Development Corporation of Uttarakhand Ltd.

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1 INTRODUCTION

1.1 BACKGROUND

Haridwar is the most prominent religious and spiritual centre of the state of Uttarakhand. Haridwar is the headquarters and the largest city of the district. Haridwar is the gateway to the four pilgrimages of Uttarakhand. Haridwar's chief object of pilgrimage is Har-ki-pauri—the bathing ghat, or steps, along the river. Haridwar is also one of the four places where Kumbh Mela occurs after rotation of every twelve Years and Ardh Kumbh Mela is organised after six years of every Kumbh during which large numbers of pilgrims gather there annually.

Today, the city is developing beyond its religious importance, with the fast developing industrial estate of State Industrial Development Corporation of Uttarakhand (SIIDCUL), and the close by township of Bharat Heavy Electricals Limited as well as its affiliated ancillaries.

Tourists come in millions to Haridwar from all over India and the world throughout the year. Almost 1.25 lakh pilgrims and tourists visit Haridwar everyday. Over the years, there has been a continuous increase in the number of tourists visiting Haridwar.

There is an absence of organized public transport system in Haridwar and other IPT modes like auto, vikram constitute for most of the public transport trips. The main local transports of Haridwar include private taxis, local buses, auto rickshaws, and cycles. In the absence of an effective public transport system that could meet the needs of a growing demand, cars and two wheelers began growing at a pace much faster. It has been observed that the number of vehicles registered in the city has grown double in the last decade as there were about 1.37 lakhs vehicles registered in Haridwar city out of which majority is two wheelers followed by cars and other vehicles.

This study aims to assess the ridership for the proposed Personal Rapid Transit (PRT) system in Haridwar. The scope of work would focus upon Traffic Demand Modelling and Ridership forecast for the proposed PRT system. Realistic assessment of traffic shall form the basis for assessing the viability of the proposed PRT system in question.

ICRA Analytics Ltd. has been appointed by the Delhi Metro Rail Corporation Limited (DMRC) to carry out the study for the project titled "Traffic and Transportation Study for Preparation of DPR for PRT System in Haridwar City". This document is the final deliverable in form of Final Report to be submitted to Delhi Metro Rail Corporation.

1.2 STUDY AREA

The project site is located in Haridwar city, Uttarakhand. Following corridors have been proposed for the PRT system.

- Corridor I – Har-Ki-Pauri to Sitapur along Haridwar Main Road
- Corridor II –Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar Road
- Corridor III – Har-Ki-Pauri to Shantikunj area connecting Haridwar-Rishikesh Main Road
- Corridor IV – Haridwar Main Road (Prem Nagar) to Shivalik Nagar along Madhya Marg
- Corridor V – Valimiki Chowk to Parking area near Laltaro Bridge
- Corridor VI - Extensions connecting Bhart Mata Temple from Shantikunj area and Daksh Temple from Kankhal/ Ganeshpuram

1.3 SCOPE OF WORK

The objective of the study as per the Terms of References can be divided into two segments:

1. Passenger Forecasting of Haridwar City
2. Realistic assessment of traffic on the proposed network

Further, the detailed scope of this study from an extensive perspective has been elaborated below:

i. The assessment to be undertaken for the following

- Baseline total and assigned traffic onto the system across horizon years
- New facility ridership and passenger km across horizon years
- PHPDT (peak sectional load) across horizon years
- Corridor wise ridership across horizon years
- Different station loadings (boarding, alighting numbers) across horizon years
- Unidirectional station boarding and alighting in the peak hour giving sectional load in peak hour.
- Base network, traffic and travel characteristics amidst a multi model setup; and
- The dynamics of traffic shift to the proposed system in wake of competing modes across horizon years.

ii. For estimating the passenger traffic, the study should consider:

- Passenger trips that would resort to the project corridor due to the new PRT system linkages. This procedure should measure the relationship between the strength of a stimulus and the proportion of cases exhibiting a certain response to the stimulus
- The modal shift to the newly introduced system on to the existing network from each competing mode once the PRT system is installed
- Unidirectional station boarding & alighting of daily and days section load
- Determination of total trips on date (vehicular and walk) and in horizon years
- Existing modal split on date for various modes
- Modal split after PRT in place
- Total passenger km (PKM) corridor wise
- Average trip length for each proposed corridor separately and also combined
- Fare structure to be mentioned clearly in the report
- Station to station of PRT OD to be provided
- Complete OD matrix of all trips, private trips and public trips to be provided
- Traffic that may accrue at major interchange points and mid-block locations due to introduction of the new facility

iii. The study will be based on analysis of:

- Review of the existing travel pattern
- Review of network usage pattern by different modes
- Review of existing transport facilities (all competing modes)
- Review of the zoning system
- Network plan and the specified project corridor
- Hourly classified volume counts
- Origin Destination (O-D) matrices – consolidated and mode-wise
- Existing public transport network and their specific movement along the project corridor

- Competing transport modes
- Average Trip Lengths for various categories of vehicles
- iv. **The traffic and travel data collated is to be used to formalise the 4-stage travel demand model for the baseline and projected scenarios (maximum 2), that inter alia includes: -**
 - Trip Generation Model
 - Trip Attraction Model
 - Trip Assignment Model
 - Peak and off-peak period system load forecast
 - Trip distribution model suiting either growth factor models/system models
- v. **The four-stage model will entail the following:**
 - The generalized cost of travel will be estimated and modelled for the proposed PRT system
 - Discrete models, either probit or logit will be formulated using primary WoP data. These models will help gauge the extent of traffic diversion or attraction across competing modes for the project corridor
 - The models will be spatially and logically validated using the assignment exercise with changes to TTM and related cost impedance factor
 - Statistical analysis and discrete choice model will be estimated using the stated preference survey data segmented by vehicle type, highway used, trip purpose and time of day as morning and evening peak and off peak.
 - The travel demand forecast will cognize the time series data pertaining to key traffic generation – population, motorization rates, households and traffic attraction parameters – land-use based parameters. Back-testing of trip end data will be also undertaken.

1.4 KEY DELIVERABLES AND TIMELINE

The deliverables for the study will comprise of following stages of submissions with the stipulated time frame.

Table 1-1 Deliverables and Time Frame

Deliverables	Time Frame
Inception Report	1 week from date of award
Data Report	2 weeks from date of award
Draft Final Report	3 weeks from date of award
Final Report	1 week after receipt of DMRC comments

1.5 REPORT STRUCTURE

The present report discusses **Stage 4** of the assignment and is structured as follows: -

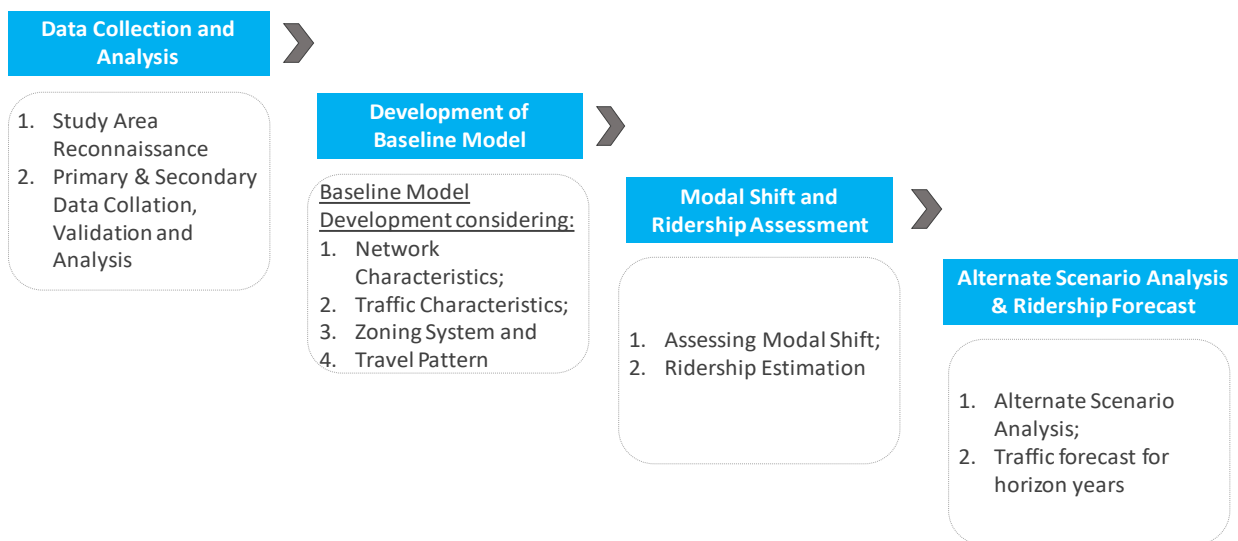
- Chapter 1 - Provides an overview of the assignment objectives and scope of work
- Chapter 2 - Discusses the Approach & Methodology of the study
- Chapter 3 - Details out our understanding of the study area and about the project
- Chapter 4 - Articulates the primary survey analysis
- Chapter 5 – Presents the ridership estimation

2 STUDY APPROACH & METHODOLOGY

This chapter provides an overview of the proposed study approach. The study methodology is explained stage wise, which forms the subsections of the chapter.

2.1 PROPOSED METHODOLOGY

The fundamental objective of this study is to provide an estimation of the proposed PRT system ridership for the horizon years with a fair degree of accuracy. The said scope of work has been divided into the following modules and is discussed in detail in subsequent section.



Module 1: Data Collation and Analysis

This study requires primary surveys to collect the required quantitative and qualitative information to understand the traffic and travel patterns emanating within the study area, and the consequent impact on travel demand. A number of primary and secondary surveys have been conducted, which are discussed below:

Stage 1: Primary Data Collection

The first stage in the estimation of PRT ridership is to collate data on all factors that are likely to influence travel pattern. The work involves a number of surveys so as to have an idea about the existing travel pattern of the passengers and their preferences. The main purpose of primary surveys is to collect the base line data; for (a) understanding the existing travel characteristics, (b) estimation and calibration of parameters of travel demand models and (c) validation of model. The data has been collected through both primary and secondary surveys. The primary surveys conducted are as follows:

1. Manual Traffic volume count surveys including occupancy of passenger at 6 locations for 3 days for 24 hours duration
2. Videographic volume count survey at 2 locations for 3 days for 24 hours duration
3. Road side OD Survey including Willingness to Pay Survey at 6 locations for 1 day at 16 hours/day
4. Speed and delay survey of the proposed corridor

Stage 2: Secondary Data Collection

The basis for secondary data collection is that it helps to fill the gaps that have not been able to be collected through primary surveys. Secondary data is also required for establishing trends and development patterns. Past studies and reports related to traffic and transportation provide insights into the transportation characteristics and their associated trends.

Stage 3: Data Analysis

This stage involves analysis of the collated data. Various checks and quality measures are adopted to ensure data authenticity and accuracy. Primary indications of the data analysis has been validated to ground conditions. The data analysis gives an insight of the existing traffic and transportation characteristics along the study corridors and its surrounding region.

Module 2: Development of Baseline Model Using Updated Traffic Data

Stage 1: Development of Traffic Zone System

The project corridor is delineated into various traffic zones. The zoning system of the study has been carefully designed as a hierarchical system of fine zones and larger districts to achieve the multiple objectives of the study. The zones also relate to the road and railway networks of the city.

Stage 2: Development of OD Matrices

In order to assess the travel pattern of the users, it is highly imperative to know the exact origin and destination of their trips. It is not only necessary to know how many trips are made, but also to group these trips with reference to their zones of origin and destination. This information is gathered from the Origin Destination (O-D) Survey. O-D survey also provides insight into the land- use of the zones of origin and destination, time of the day when the journeys are made, trip purpose and mode of travel.

Stage 3: Transport Network Representation

Digitized map of the area with road network is prepared with sufficient accuracy. This is in lieu of road network inventory data and other secondary information. During development of ridership estimation model, the prepared network has been used for traffic assignment purpose.

Module 3: Modal Shift and Ridership Assessment

Ridership estimates for both base and horizon years are estimated through the developed model. The respective station to station travel pattern and the overall numbers in lieu of the shift assessment and the PRT network is covered.

Module 4: Alternate Scenario Analysis and Ridership Forecast

1. Ridership Assessment
2. Estimation of Future Ridership:

Once base year estimates have been obtained, the horizon year projections for the base and future scenarios have been estimated.

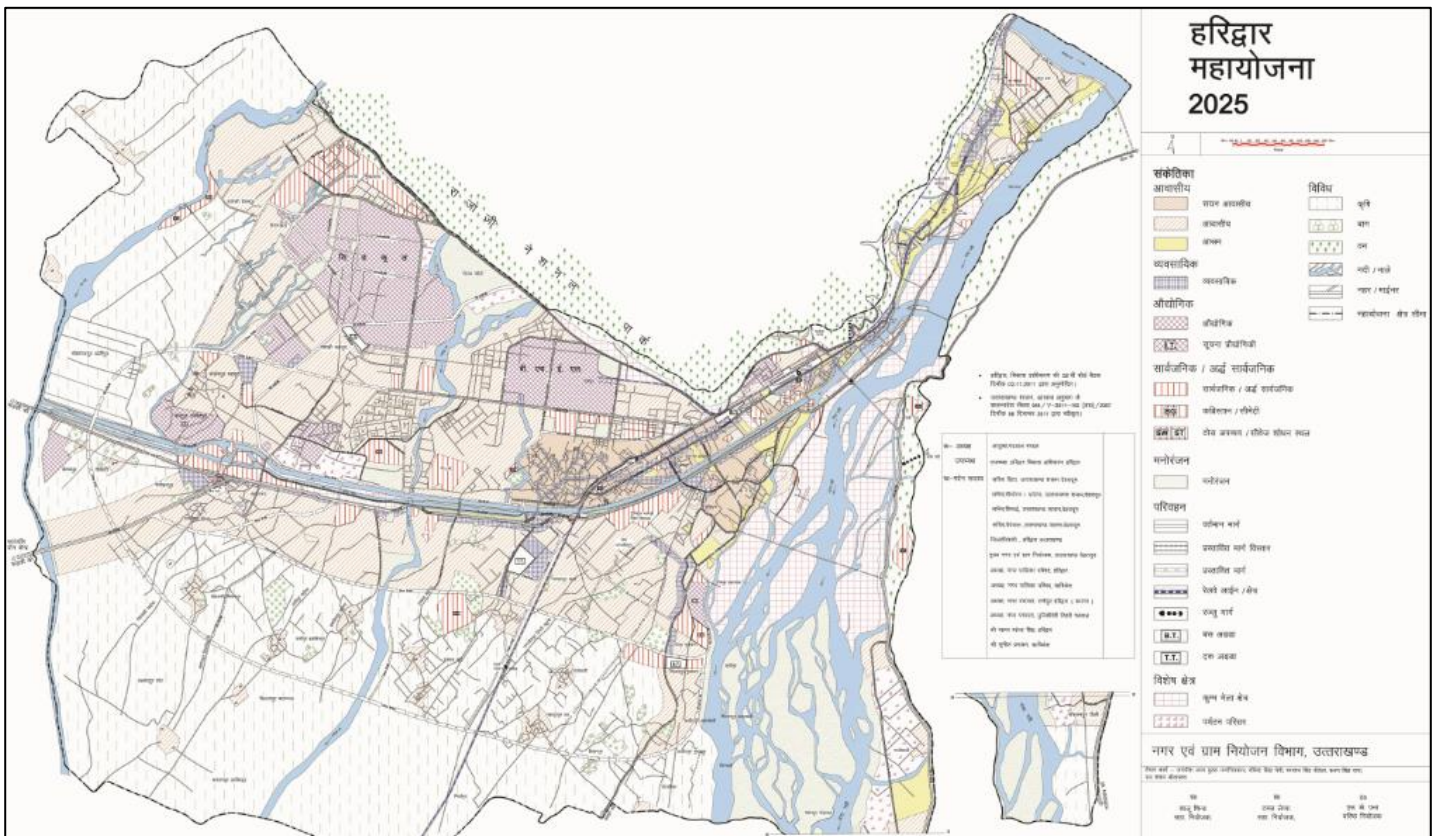
3 STUDY AREA APPRECIATION

3.1 STUDY AREA

The study area comprising of Haridwar is located in the Garhwal region of Uttarakhand. Haridwar is the most prominent religious and spiritual centre of the state of Uttarakhand. Haridwar is the headquarters and the largest city of the district. The total geographical area of the Haridwar Township is about 42.01sq.km and is situated at the height of 249 m above mean sea level.

Haridwar is the gateway to the four pilgrimages of Uttarakhand. History depicts that it is the starting point of the two holy rivers Ganga and the Yamuna. Haridwar’s chief object of pilgrimage is Har-ki-pauri—the bathing ghat, or steps, along the river. Haridwar is also one of the four places where Kumbh Mela occurs after rotation of every twelve Years and Ardh Kumbh Mela is organised after six years of every Kumbh. Large numbers of pilgrims gather there annually at the beginning of the Hindu solar year in April.

Figure 3-1 : Study Area Map



Today, the city is developing beyond its religious importance, with the fast developing industrial estate of State Infrastructure and Industrial Development Corporation of Uttarakhand Limited (SIIDCUL), and the close by township of Bharat Heavy Electricals Limited (BHEL) as well as its affiliated ancillaries. Being one of the seven holiest cities in India, Haridwar often bustles with devotees. Its propitious location near the holy River Ganga has made it to gain more popularity.

3.2 DEMOGRAPHIC DETAILS

As of 2011 India census, Haridwar district had population of 18,90,422 (2011) and Haridwar city has 3,10,562 population in 2011. As per Census 2001, average household size is about 5.4 persons. Haridwar has an average literacy rate of 70%, higher than the national average of 59.5%.

Table 3-1 Demographic Data of Haridwar

Region	Population (Census 2011)	Density (in PPSQKM)	No of Household	Household Size	Male Population	% of Total Population	Female	% of Total Population	Sex Ratio	Literacy Rate	Decadal Growth Rate
Rawali Mahdood (CT)	17,467	3,130	3,464	5.04	9,438	54.03	8,029	45.97	851	68.73	140.70
Bahadarabad (CT)	10,096	3,913	1,903	5.31	5,366	53.15	4,730	46.85	881	70.39	33.63
Jagjeetpur (CT)	15,043	3,270	3,090	4.87	7,917	52.63	7,126	47.37	900	74.32	110.50
Hardwar (NPP+OG)	2,31,338	9,819	47,251	4.9	1,23,455	53.37	1,07,883	46.63	874	73.69	30.32
Bharat Heavy Electricals Limited Ranipur (ITS)	46,948	1,743	10,381	4.52	24,893	53.02	22,055	46.98	886	80.16	8.53

Haridwar hosts about 8 million religious tourists every year. The giant public sector unit BHEL a large unit of Hindustan Lever and three engineering units have their impact on the tertiary sector of the economy of the town. In private sector also, some large industrial units are functioning in the fringes of Haridwar, which have impact on the economy of the town; and many more units which are in the offing, will also indirectly strengthen the economy of this town. As the economy grows, the rate of in-migration of workers will grow concomitantly, which will reflect on the growth of population. Besides the tourist population, a large number of daily religious visitors and visitors who come on different business in this head quarter town (Haridwar town is the Head Quarter of District Haridwar) constitute the floating population.

3.3 SOCIO - ECONOMIC OUTLINE

Haridwar is the hub of religious tourism in the State of Uttarakhand. Among several religious tourist destinations in this State, Haridwar attracts largest number of visitors, the impact of which on the service sector is quite significant, particularly in the small trade, hotel business, transport and such other activities. Haridwar is also growing as the industrial hub of the State. SIIDCUL is a massive industrial area, spread over 2,034 acres, developed by State Industrial Development Corporation of Uttarakhand (SIIDCUL), a state government body. With the arrival of big enterprises like ITC, Hindustan Unilever Limited, Dabur, Mahindra & Mahindra, Havells and Kirby, SIIDCUL is set to develop into another industrial township within the city 3 km away from the Delhi-Hardwar National Highway.

The giant public sector unit BHEL (population 47,000 in its colony - as per census 2011), a large unit of Hindustan Lever (employment 559 - as per CDP Haridwar 2007), and three engineering units (together employing 11,040 workers - as per CDP Haridwar 2007) have their impact on the tertiary sector of the economy of the town. In private sector also, some large industrial units are functioning in the fringes of Haridwar, which have impact

on the economy of the town; and many more units which are in the offing, will also indirectly strengthen the economy of this town. As the economy grows, the rate of in-migration of workers will grow concomitantly, which will reflect on the growth of population.

As per CDP Haridwar 2007 and IMAcS primary survey 2017, majority of the households in Haridwar are in below poverty line and poor income groups, at present more than 15% population is below the national (GoI) poverty line. Mean per capita income of the families is around Rs. 5,000 and mean household income is around Rs. 15,000. There is a considerable proportion of population in the lower expenditure group and it is evident that they spend most of their income. Families in the middle income groups have maximum savings in Haridwar.

3.4 TOURISM

Haridwar is considered as the point of entry to Char Dham, the four main centres of pilgrimage in Uttarakhand region viz. Badrinath, Kedarnath, Gangotri and Yamunotri. Haridwar, with its rich heritage attracts millions of tourists on religious occasions every year and especially during Kumbh Mela and Ardh Kumbh Mela. Haridwar has neighbouring tourist attractions which makes it a tourist hub in the region.

Tourists come in millions to Haridwar from all over India and the world throughout the year. Almost 1.25 lakh pilgrims and tourists visit Haridwar everyday. Over the years, there has been a continuous increase in the number of tourists visiting Haridwar.

Figure 3-2 : Major Tourist Spots of Haridwar



3.5 EXISTING TRAFFIC AND TRANSPORT CHARACTERISTICS

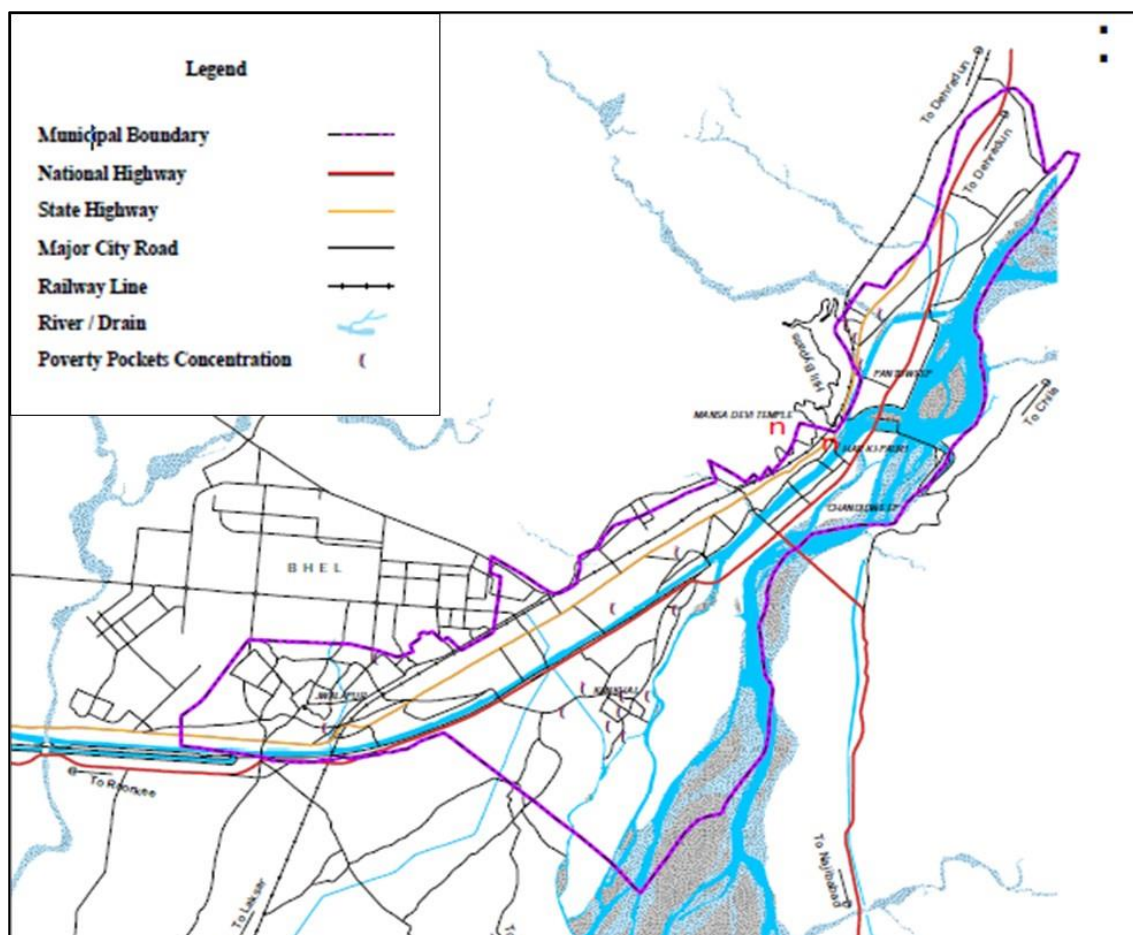
Haridwar is well connected by rail and road from Delhi, Kolkata, Mumbai, Dehradun and Yamunotri in the Himalayas. Haridwar is located at a distance of 225 kms Northeast from Delhi, 52 kms from ehradun and 494 kms from Lucknow. The city is connected by road to other parts of the state with Delhi – Niti pass road, Rishikesh road, Nazibabad road and NH- 58 forming the major travel corridors. This city is also connected by rail with other parts of the country.

3.5.1 Road Network

Haridwar city comprises of 246 km of roads of which 214.10 km are maintained by HNPP and 31.90 km (including 13 km of National Highway) are maintained by PWD. The traffic carrying capacities of city roads are low due to limited widths, intense land use and encroachments.

The city has a network of extremely narrow roads within the core city area. There is a lack of general road hierarchy and inadequate traffic management. There is a total of 214 km of roads maintained by HNPP and about 45 km roads maintained by PWD.

Figure 3-3 : Road Network Map of Haridwar



Linear growth has resulted in ribbon development along the main corridor of town, the Delhi-Niti Pass highway, known as DN Road/ Upper Road within the municipal boundary. DN road has high density commercial development creating traffic congestion during religious fairs and festivals. Increasing number of tourists every year has further accentuated the need for additional flyovers, dedicated pedestrian ways, widening of existing roads, development of parking places, etc.

3.5.2 Public Transport

There is an absence of organized public transport system for Haridwar. However, IPT as auto, vikram and e-rickshaw constitute of most of the public transport trips. The main local transports of Haridwar include private taxis, local buses, auto rickshaws, e-rickshaws and cycles. Locals and tourists make use of these local transports for traveling within the city. Tempos or vikrams are operated on a fixed route and fixed fare basis (by RTO) for short distance intra-city trips within the city, while auto rickshaws are operated on free route pattern without any fixed rate.

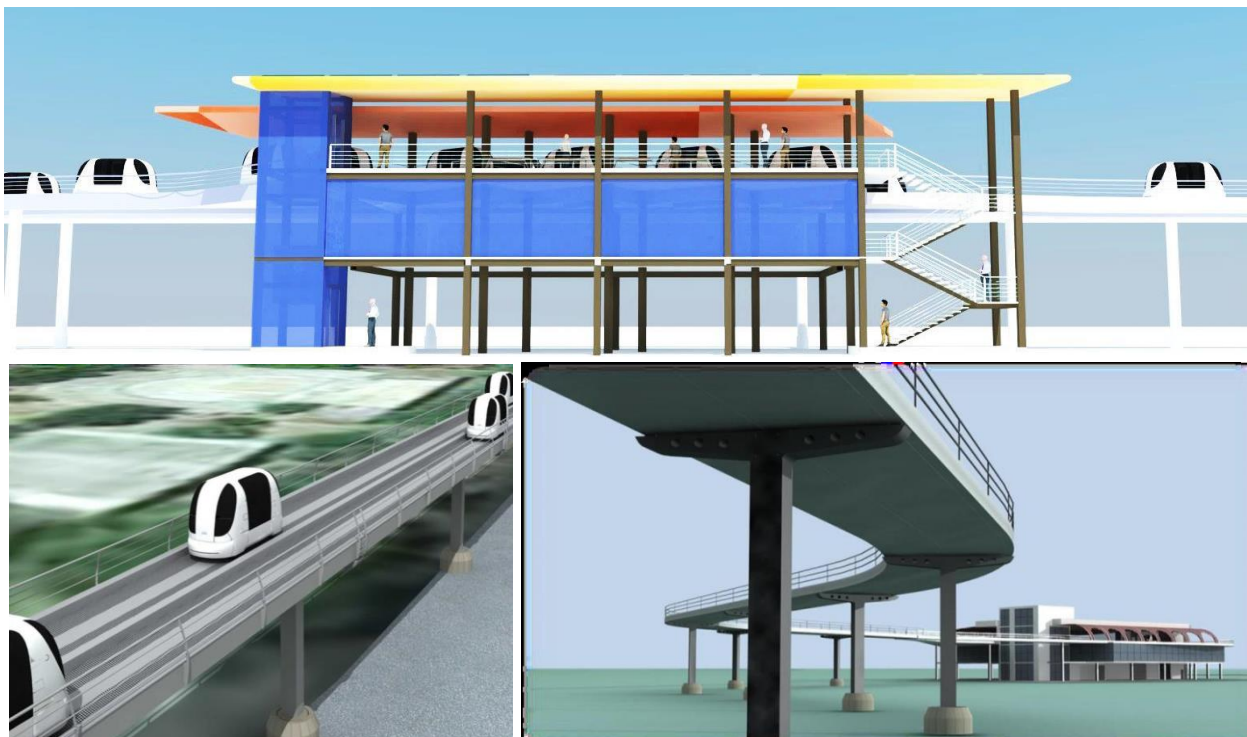
3.5.3 Vehicuclar Growth

According to the data by RTO, total registered vehicles in Haridwar city in 2017 was around 1.6 lakhs. The vehicle registration is witnessed an increase of 18% from 2016 to 2017. Total newly registered vehicles in 2016 was 21,856 which is increased to 25,841 in 2017; out of which majority is two wheelers followed by cars and other vehicles.

3.6 ABOUT THE PRT SYSTEM

Personal rapid transit (PRT), also referred to as podcars, is a public transport mode featuring small automated vehicles operating on a network of specially built guideways. PRT provides a taxi-like service for individual or small group of travellers. It provides as demand responsive feeder and shuttle service connecting major facilities such as shopping, tourist attractions, and centres.

Figure 3-4 : Typical PRT Station and Elevated PRT Corridor



The system uses automated electric driven pod cars with capacity of 4 to 6 peoples on a network of narrow segregated guide ways in order to ensure unhindered direct trips between origin and destination. With high vehicle speeds and very small headways, PRT provides fast, individual, on-demand and point-to-point PT with very short waiting times.

The guideways are constructed at a height from the ground to ensure safety and stability and to avoid congestion in the operation of the PRT as well as road traffic. They are interconnected at junctions which allows podcars to select various paths. Guideways can be integrated into existing building without significant strengthening or modifications.

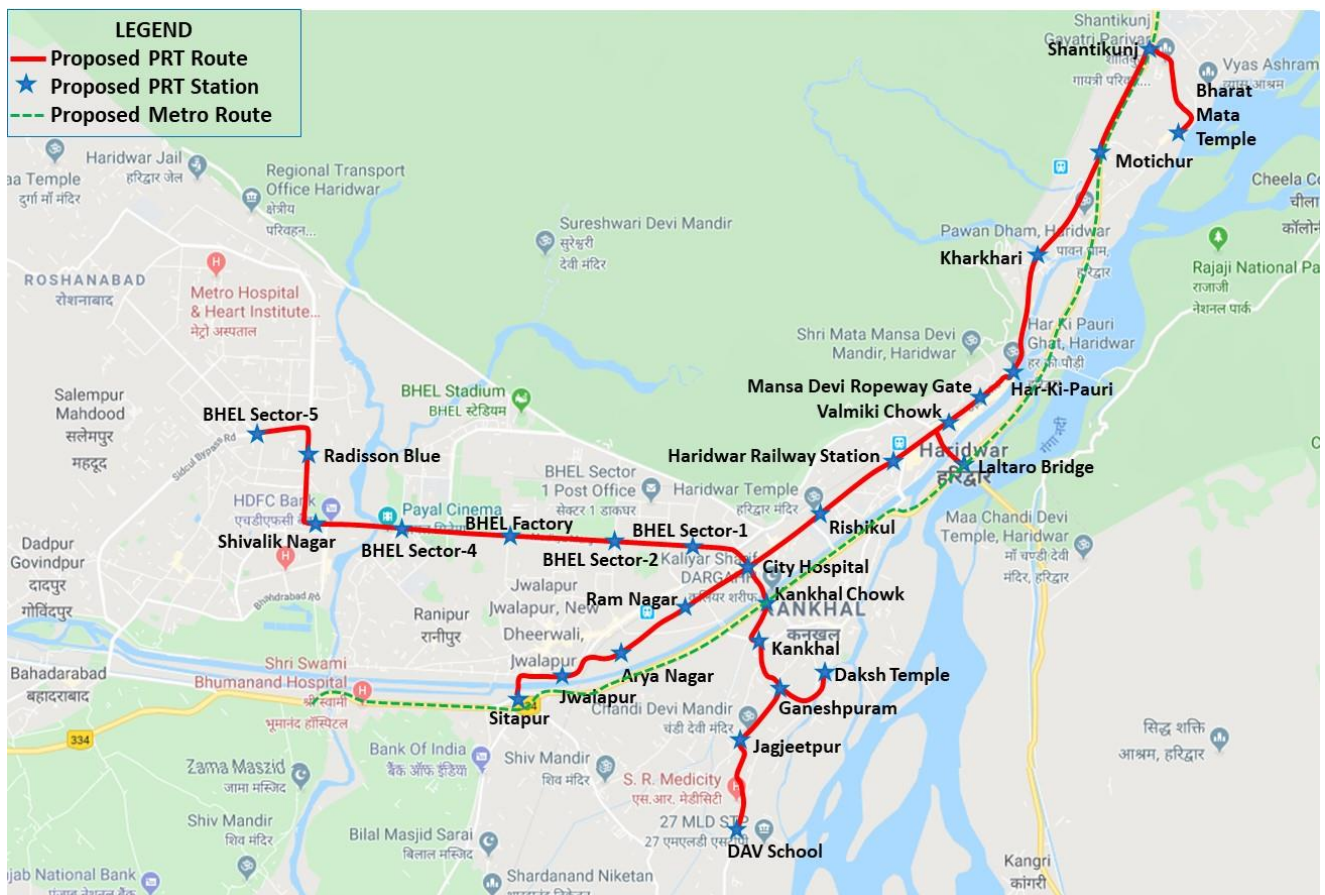
The stations are located on the sidings with merge and diverge points. This approach allows for non-stop, point to point travel bypassing all intermediate stations. The stations will have all the basic facilities like passenger interface which allows destination selection concole, communications.

This system is proposed in the Haridwar city. The system will provide on-demand operations, direct origin to destination stop services, and congestion free transport due to operating on segregated guideways. The proposed corridors are given in the following table.

Table 3-2 : Proposed PRT Corridors

Corridor	Corridor Name
Corridor I	Har-Ki-Pauri to Sitapur along Haridwar Main Road
Corridor II	Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar Road
Corridor III	Har-Ki-Pauri to Shantikunj area connecting Haridwar-Rishikesh Main Road
Corridor IV	Haridwar Main Road (Prem Nagar) to Shivalik Nagar along Madhya Marg
Corridor V	Valimiki Chowk to Parking area near Laltaro Bridge
Corridor VI	Extensions connecting Bhart Mata Temple from Shantikunj area and Daksh Temple from Kankhal/ Ganeshpuram

Figure 3-5 : Map Showing the Proposed PRT Corridors in Haridwar City



4 PRIMARY SURVEYS

Relevant primary surveys were conducted as per the terms of reference of the study so as to gain an understanding of the traffic and transportation characteristics of the study area. This chapter discusses the major findings of the primary surveys carried out as part of the study. The following primary surveys and their specifications have been mutually agreed with DMRC to carry out passenger forecasting of the proposed PRT corridors. The format used for the survey is enclosed in **Annexure I**.

Table 4-1 : List of Primary Surveys

Survey	Duration/Samples	Quantity
Traffic Volume Count including Occupancy Survey	24 hours for 3 days	6
Traffic Volume Count -Videography	24 hours for 3 days	2
Road side OD Survey including Willingness to Pay Survey	16 hours for 1 day	6
Speed and Delay by Moving Car Observer Method	Morning and Evening Peak	3

4.1 TRAFFIC VOLUME COUNT SURVEY INCLUDING OCCUPANCY SURVEY

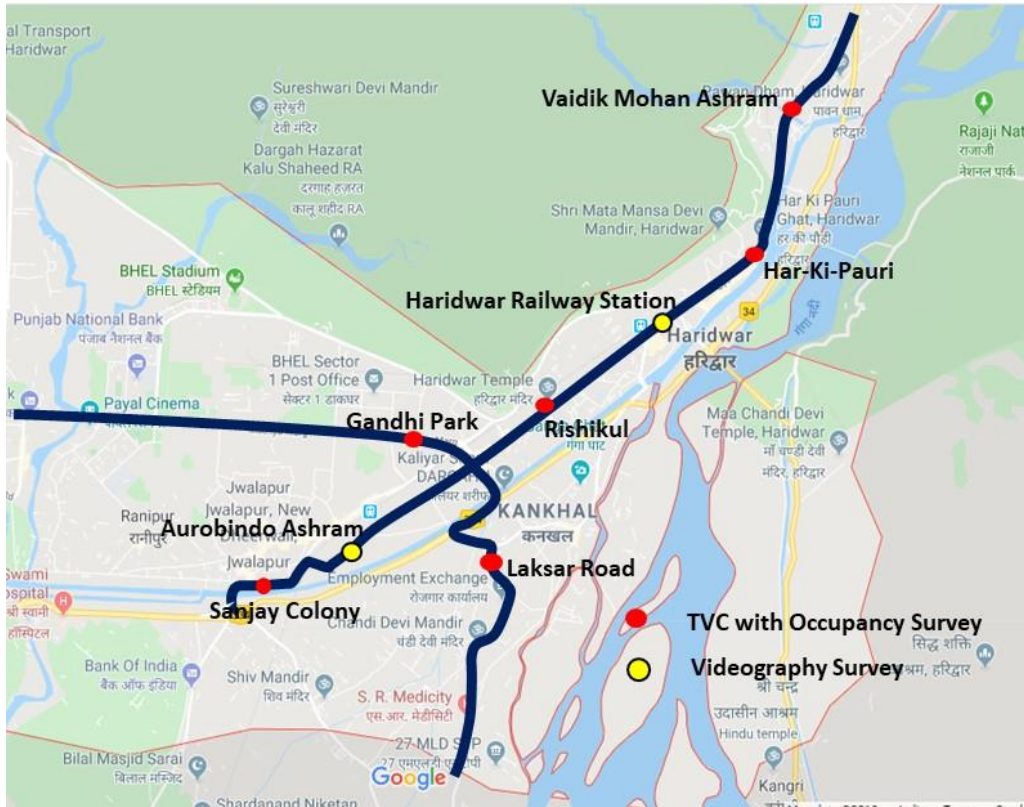
As per study ToR, classified Traffic Volume Count (TVC) Survey was carried through manual and videographic methods. TVC surveys (including occupancy surveys) provide information regarding traffic characteristics and the average Occupancy on the study corridor. Manual Classified Traffic Volume Count Surveys was undertaken at 6 identified locations across the study corridor, while videographic TVC Survey was also carried out across 2 locations.

This section discusses the salient aspects of the data collated as part of the traffic volume count surveys. TVC survey details are listed in the following table.

Table 4-2 : Survey Locations

Survey	Location ID	Location	Duration	Date
Manual TVC	MB1	Sanjay Colony	24 hours for 3 days	15/12/2019
	MB3	Rishikul	24 hours for 3 days	12/12/2019
	MB5	Har-ki-Pauri	24 hours for 3 days	12/12/2019
	MB6	Vaidik Mohan Ashram	24 hours for 3 days	12/12/2019
	MB7	Gandhi Park	24 hours for 3 days	15/12/2019
	MB8	Laksar Road	24 hours for 3 days	15/12/2019
Videographic TVC	MB2	Aurobindo Ashram	24 hours for 3 days	15/12/2019
	MB4	Railway Station	24 hours for 3 days	15/12/2019

Figure 4-1 Survey Location Map



Directional classified traffic volume counts are analyzed to obtain:

1. **Average Daily Traffic (ADT)**- ADT provides an insight to the amount of traffic moving on various stretches of the corridors and is further appropriately used for assessment.
2. **Peak Hour Flows** - From observing the peak hour values, the observed peak hour time, its associated traffic and also the peak hour factor the location are obtained.
3. **Directional Distribution** by hour of the day -Directional distribution presents the directional split in traffic at each survey location.
4. **Traffic Composition** - Classified Traffic Volume Counts also provides valuable insight into the vehicular composition of the traffic in the study area.

In addition, Occupancy survey was carried out along with the TVC Survey wherein the mode wise occupancy values were also recorded. These in conjunction with one another are further used for the traffic assessment.

4.1.1 Observed Traffic Volumes

Traffic Volume counts conducted at various locations along the project corridor provided an insight to the amount of traffic moving on various stretches of the corridor. Table 4-7 shows the average traffic volume observed at all individual locations.

Table 4-3 : Traffic Volume at Midblock Locations (24-Hours Volumes)

Location ID	Mid-Block	Direction	Vehicles	PCUs	Total Vehicles	Total PCUs
MB1	Sanjay Colony	Towards Rishikesh	13,050	8,962	26,483	18,277
		Towards Sitapur	13,434	9,315		

Location ID	Mid-Block	Direction	Vehicles	PCUs	Total Vehicles	Total PCUs
MB2	Aurobindo Ashram	Towards Rishikesh	14,613	9,733	29,168	19,588
		Towards Sitapur	14,555	9,855		
MB3	Rishikul	Towards Rishikesh	14,891	11,453	30,206	23,186
		Towards Sitapur	15,314	11,734		
MB4	Railway Station	Towards Rishikesh	15,698	13,430	28,570	23,768
		Towards Sitapur	12,872	10,339		
MB5	Har-ki-Pauri	Towards Rishikesh	5,394	3,764	10,750	7,487
		Towards Sitapur	5,357	3,723		
MB6	Vaidik Mohan Ashram	Towards Rishikesh	7,151	5,064	13,779	9,781
		Towards Sitapur	6,628	4,717		
MB7	Gandhi Park	Towards Rishikul	14,611	10,135	28,871	20,054
		Towards BHEL	14,260	9,919		
MB8	Laksar Road	Towards Haridwar Main Road	16,167	11,442	31,286	22,019
		Towards Laksar	15,119	10,577		

The above Table represents average daily passenger traffic volume observed at individual locations for 24 hours. It can be noted that highest vehicular flow on Haridwar Old Road as 30,306 (23,186 PCUs) is observed at Midblock location MB3 i.e., Rishikul. However, vehicular traffic volume on Laksar Road is highest among all traffic volume count locations. Average daily vehicular traffic at Laksar Road is observed as 31,286 (22,019 PCUs). Due to narrow ROW and congestion of pedestrian pilgrimages, vehicular traffic volume on Haridwar Old Road after Valmiki Chowk towards Har-Ki-Pauri reduces to 10,750 vehicles (7,487 PCUs) per day.

Analysing the observed daily passenger traffic after the Haridwar Railway Station (MB4) and after Valmiki Chowk (MB5), it is clear that significant amount of traffic is getting diverted from railway station towards NH334A (Haridwar Main Road) via Mayapur Road and Valmiki Chowk (Laltaro Bridge). As per the available ROW and local connectivity of three different roads (Mayapur Road, Laltaro Bridge Road and Bypass Road towards Bilkeshwar Colony) between Haridwar Railway Station and Har-Ki-Pauri, it is estimated as around 45% of total diverted traffic from Haridwar Railway Station is on the Laltaro Bridge, 35% is on Mayapur Road and 20% is on the Bypass Road towards Bilkeshwar Colony. Further there is straight movement traffic between Laltaro Bridge and Bypass Road towards Bilkeshwar Colony. This component is estimated as additional 20% of total diverted traffic on Laltaro Bridge. After this detailed analysis of traffic diversion mentioned above, traffic estimates on Laltaro Bridge shows average daily vehicular flow of around 9,622 (8,790 PCU) and on Mayapur Road shows average daily vehicular flow of around 6,235 (5,695 PCU). In terms of passenger volume Laltaro Bridge carries around 36,000 passengers and Mayapur Road carries around 24,000 passengers per day.

Table 4-4 : Traffic Volume at Laltaro Bridge and Mayapur Road (24-Hours Volumes)

Location	Direction	Vehicles	PCUs	Total Vehicles	Total PCUs
Laltaro Bridge	Towards NH334A	5,564	5,219	9,622	8,790
	Towards Haridwar Old Road	4,058	3,571		
Mayapur Road	Towards NH334A	3,605	3,381	6,235	5,695
	Towards Haridwar Old Road	2,630	2,315		

Daily variations of traffic volume at each primary survey location shows that weekend traffic for Rishikul to Vaidic Mohan Ashram is around 8% higher than weekday traffic. Whereas, other locations in the city (locations at the residential areas) are observed with lower weekend traffic than weekday or almost similar traffic for both the weekend and weekday. This implies the additional impact of tourist traffic at the Rishikul – Vaidik Mohan Ashram section due to concentration of religious places and temples at this area. Whereas, other locations in the city have more weekday traffic with due impact of day-to-day work, business or educational

traffic. The Passenger Car Unit (PCU) values adopted for the study are provided in the following table.

Table 4-5 : PCU Values Adopted for the Study

Vehicle Type	Two Wheeler	Auto Rickshaw	Tempo	Car / Taxi	E-Rickshaw	Mini Bus	Public Bus	Chartered Bus
PCU	0.5	1.00	1.00	1.00	1.00	1.5	3.00	3.00

4.1.2 Vehicle Occupancy

The occupancy survey for vehicles was undertaken as part of the traffic studies. The purpose of this study is to determine the existing sectional ridership on the particular route during the study period. This would act as a major input towards model development and validation. The occupancy survey was also carried out along with TVC Survey. The location wise occupancy details are provided in the following table, wherein mode wise observed average occupancy values are listed.

Table 4-6 : Mode-wise Occupancy Survey Summary

Location ID	Mid-Block	Two-Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw
MB1	Sanjay Colony	1.59	3.77	4.36	4.06	46.18	-	12.99	1.50
MB3	Rishikul	1.51	4.39	4.68	4.06	44.35	41.00	13.19	1.58
MB5	Har-ki-Pauri	1.55	5.46	5.00	4.35	-	-	13.24	1.39
MB6	Vaidik Mohan Ashram	1.58	3.61	4.67	4.12	44.83	44.50	13.54	1.33
MB7	Gandhi Park	1.53	3.49	4.86	4.87	43.44	39.64	13.36	2.00
MB8	Laksar Road	1.58	3.55	4.60	3.99	38.76	47.78	13.24	1.00

The observed average occupancy values for all passenger modes were collated to obtain an accurate estimation of passenger movement. Occupancy values were used in conjunction with the traffic volumes to estimate the prevalent passenger movement at individual survey locations. The following table presents the location wise summary of the above-mentioned survey locations.

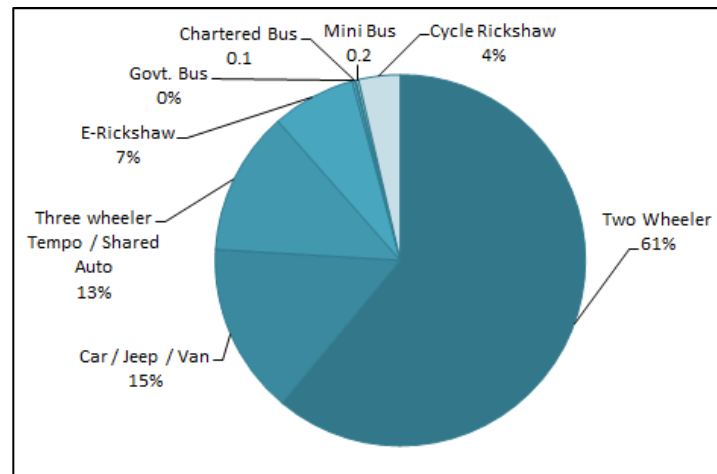
Table 4-7 : Location-wise Traffic Summary (24 Hours)

Location ID	Location	ADT		Total Passengers	Excluding Bus Passengers	E-Rickshaw, Auto Rickshaw and NMT Passengers
		Vehicle	PCU			
MB1	Sanjay Colony	26,483	18,277	67,987	66,542	28,182
MB2	Aurobindo Ashram	29,168	19,588	68,381	68,298	22,478
MB3	Rishikul	30,206	23,186	102,642	86,378	42,289
MB4	Railway Station	28,570	23,768	87,408	80,616	49,846
MB5	Har-ki-Pauri	10,750	7,487	19,132	18,815	5,673
MB6	Vaidik Mohan Ashram	13,779	9,781	37,472	36,462	16,122
MB7	Gandhi Park	28,871	20,054	68,979	66,520	3,311
MB8	Laksar Road	31,286	22,019	82,423	79,148	20,124

4.1.3 Vehicular Composition

Classified Traffic Volume Counts also provides valuable insight into the vehicular composition of the traffic in the study area. The overall composition is expressed in the following chart.

Figure 4-2 : Vehicular Composition at Midblock Locations

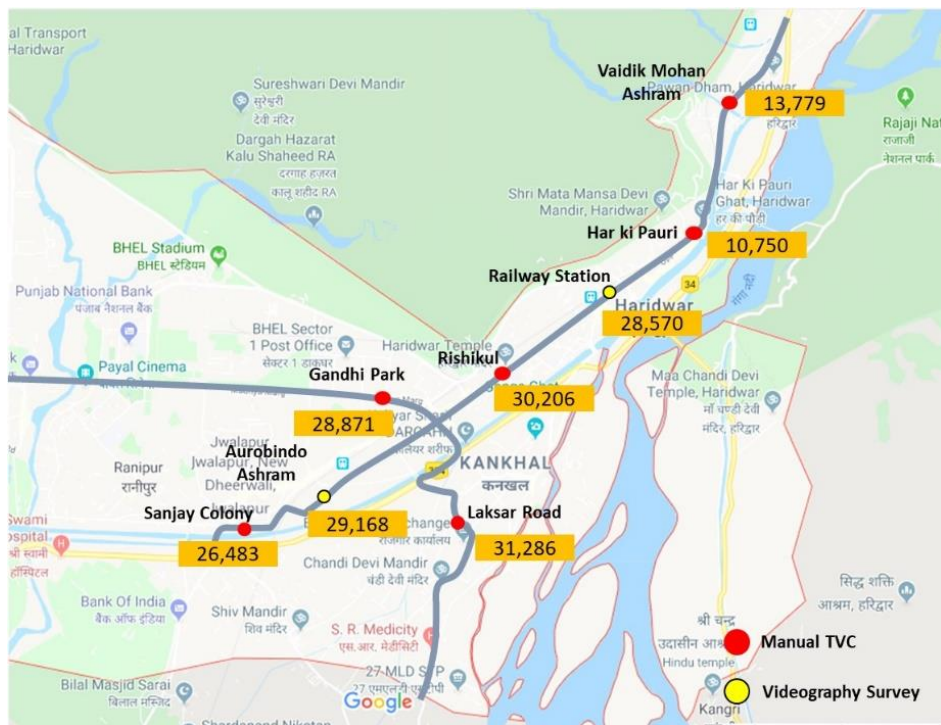


Average vehicular composition recorded during the traffic volume study shows that majority of the traffic comprises of two-wheelers (61%) and IPT (20%). IPT vehicles include Temp/Shared Auto/E-rickshaw. Car recorded the share of 15% and buses recorded a negligible share of less than 1%. The following table presents the vehicle composition of the surveyed locations.

Table 4-8 : Vehicle Composition at Surveyed Locations

Location ID	Location	Vehicles	Two-Wheeler	Car / Jeep / Van	Three-wheeler / Tempo / Shared Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles
MB1	Sanjay Colony	Vehicles	16,576	3,187	4,093	2,532	23	0	31	42	26,483
		%	63%	12%	15%	10%	0.08%	0.0%	0.12%	0.16%	100%
MB2	Aurobindo Ashram	Vehicles	19,694	3,852	3,106	2,028	1	14	3	472	29,168
		%	68%	13%	11%	7%	0.00%	0.05%	0.01%	2%	100%
MB3	Rishikul	Vehicles	15,681	4,641	7,496	1,705	275	45	169	194	30,206
		%	52%	15%	25%	6%	1%	0.1%	1%	1%	100%
MB4	Railway Station	Vehicles	13,464	1,748	6,577	3,536	138	67	50	2,991	28,570
		%	47%	6%	23%	12%	0.5%	0.2%	0.2%	10%	100%
MB5	Har-ki-Pauri	Vehicles	8,217	79	65	699	0	0	24	1,667	10,750
		%	76%	1%	1%	7%	0.0%	0.0%	0.2%	16%	100%
MB6	Vaidik Mohan Ashram	Vehicles	8,178	1,904	2,400	1,181	10	12	42	53	13,779
		%	59%	14%	17%	9%	0.1%	0.1%	0.3%	0%	100%
MB7	Gandhi Park	Vehicles	17,890	10,183	450	226	37	9	65	10	28,871
		%	62%	35%	2%	1%	0.13%	0.03%	0.23%	0.04%	100%
MB8	Laksar Road	Vehicles	19,196	7,126	2,192	2,503	58	73	78	61	31,286
		%	61%	23%	7%	8%	0.2%	0.2%	0%	0.2%	100%
Average			61.0%	14.9%	12.6%	7.3%	0.2%	0.1%	0.2%	3.6%	100%

Figure 4-3 : Observed Traffic Volumes (Number of Passenger Vehicles) on the Proposed Corridors



4.1.4 Peak Hour Flows

Peak Hour and peak hour characteristics (Peak Hour PCU, Peak Period Factor) obtained during the 16 hours TVC survey are listed in the following table.

Table 4-9 : Peak Hour, Peak Hour PCU and Peak Hour Factor Summary

Location ID	Location	Peak Hour	Peak Hour PCU	Peak Hour Factor w.r.t. 16 Hour PCU
MB1	Sanjay Colony	17:30-18:30	1,639	8.97%
MB2	Aurobindo Ashram	17:00-18:00	1,580	8.06%
MB3	Rishikul	11:00-12:00	1,885	8.13%
MB4	Railway Station	18:00-19:00	1,716	7.22%
MB5	Har-ki-Pauri	11:15-12:15	684	9.14%
MB6	Vaidik Mohan Ashram	10:30-11:30	772	7.90%
MB7	Gandhi Park	16:30-17:30	1,797	8.96%
MB8	Laksar Road	17:45-18:45	2,000	9.08%

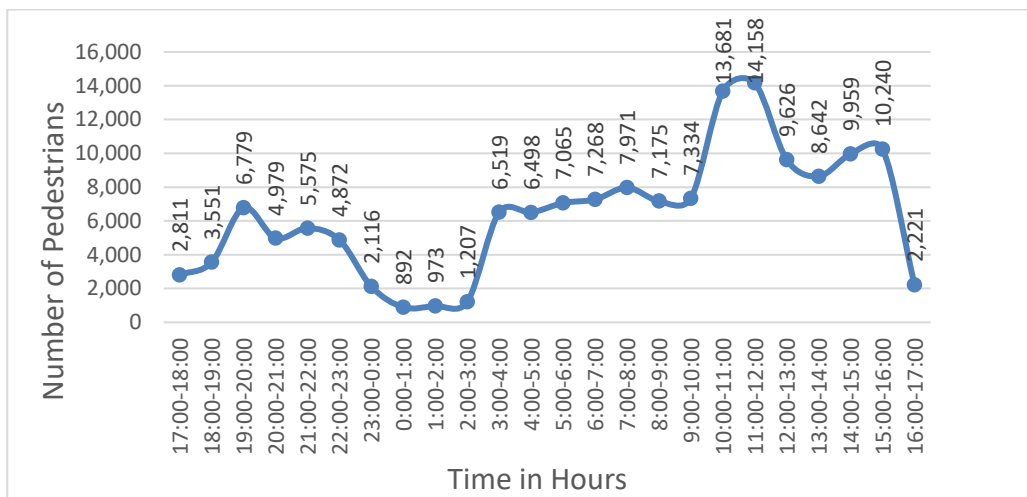
The average peak hour share across the survey locations is 8.4%. In addition to aggregate TVC estimates, other aspects of traffic were also covered through the survey viz. Hourly variation, intraday variation, peak hour traffic and peak hour characteristics, directional distribution of traffic etc. Location wise detailed analysis of the collated TVC data, covering all the above discussed parameters are provided in **Annexure II**. The Traffic volume count survey summary is illustrated in the following figure.

4.1.5 Pedestrian Count

Haridwar is visited by millions of tourists every year. It is the place where fairs are being organized with full enthusiasm round the year, such as Somwati Amavasya, Kartik Poornima, Shraavan Poornima, Ganga Dussehra

and other important bathing dates of Hindu calendar. To understand the impact of Poornima and Mela days, pedestrian count was conducted between Valmiki Chowk and Har-Ki-Pauri on Kartik Purnima day (11th November evening to 12th November evening) in 2019. Kartik Purnima was on 12th November in 2019. Har-Ki-Pauri is the most sacred ghat in Haridwar, where every pilgrim comes to take their holly bath, to sing their praises, to float earthen diyas, to see the Ganga Aarti and to enjoy the mela. It has been observed that the total pedestrian movement including both directions at that particular location was around 1.5 lakh in 24 hours. Occasional day (Poornima/ mela day) traffic for Haridwar Railway Station to Har-Ki-Pauri section is observed as 4.3 times of normal day average. The hourly variation of pedestrian traffic is illustrated in Figure below.

Figure 4-4 : Hourly Variation of Pedestrians near Har-Ki-Pauri on Kartik Poornima Day, 2019



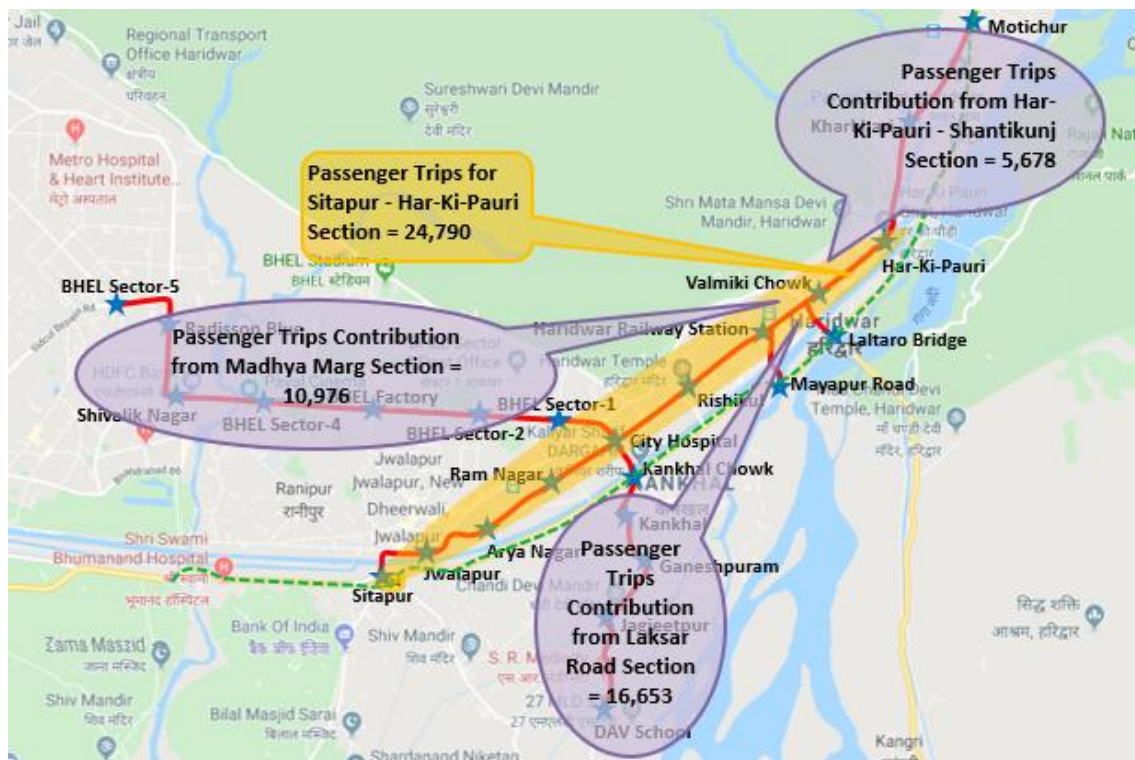
Peak movement of 14,158 pedestrians is observed between 11:00 am to 12:00pm. The peak hour factor is 9.3%. The pedestrian movement is high during the daytime between 10 am to 4 pm.

4.2 ORIGIN DESTINATION SURVEY

For analysing the travel pattern within the catchment area of proposed PRT corridors, origin destination surveys were conducted in front of Haridwar Railway station and near DAV School, Shivedale School, ITI College and other institutional areas on Laksar Road.

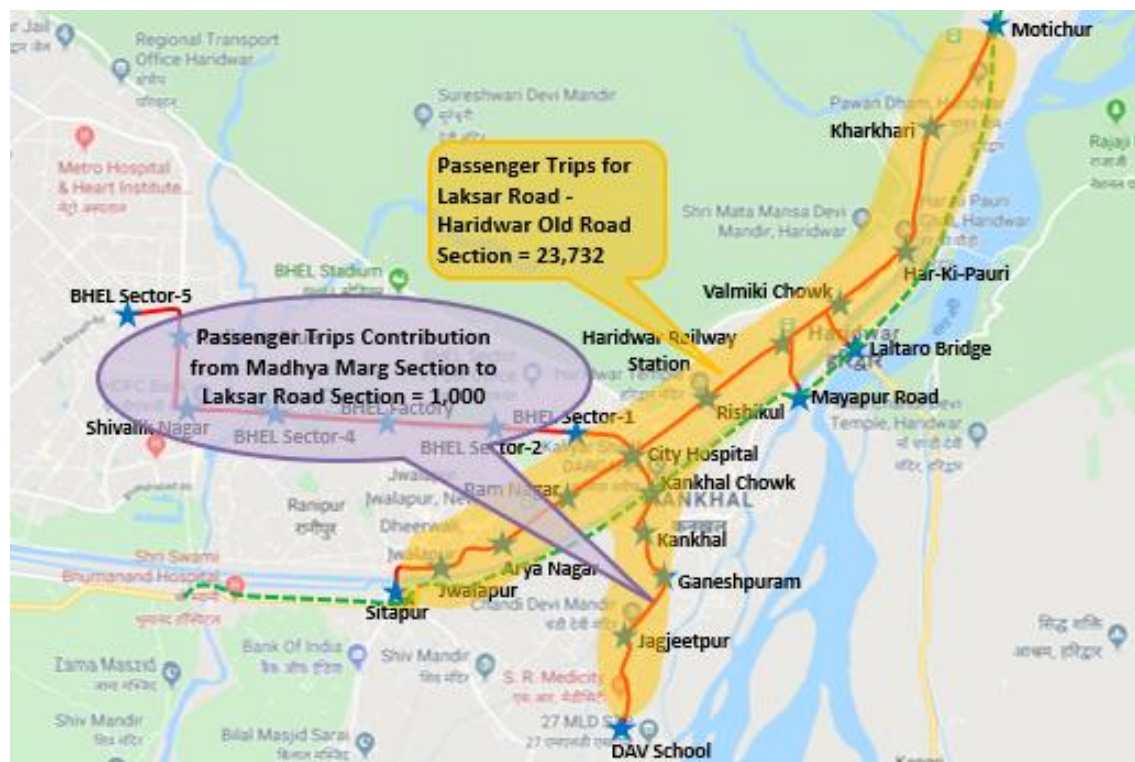
Travel pattern near Haridwar Railway Station on Haridwar Old Road shows around 25,000 daily passengers (including car and two-wheeler passengers) travelling between Sitapur to Har-Ki-Pauri section on a normal day. Har-Ki-Pauri – Motichur section is adding additional 6,000 passengers on a normal day, where as Madhya Marg (BHEL Township) and Laksar Road sections are contributing 11,000 and 17,000 daily passengers respectively. Passengers travelling between Haridwar Railway Station and Har-Ki-Pauri is around 12,000 on a normal day.

Figure 4-5 : Daily Travel Pattern on Haridwar Old Road near Haridwar Railway Station



Similarly travel pattern on Laksar Road shows around 24,000 daily passengers (including car and two wheeler passengers) travelling between Haridwar Old Road – Laksar Road (up to DAV School) section on a normal day where as, Madhya Marg is contributing only 1,000 passengers per day to Laksar Road.

Figure 4-6 : Daily Travel Pattern on Laksar Road



Response for willingness to pay for proposed PRT shows that passengers are ready to pay at least Rs. 9 for 2 km distance. Data shows that time is the most important aspect for willingness to shift to proposed PRT system. Whereas only 11% passengers feel that proposed PRT is cost saving mode compare to existing auto rickshaw or e-rickshaw. This indicates that expected high fare of proposed PRT is a real concern which can affect the willingness to shift to PRT. As per the willingness to shift survey result, around 28% passengers are willing to shift to proposed PRT.

Table 4-10 : Willingness to Pay Summary for Proposed PRT System

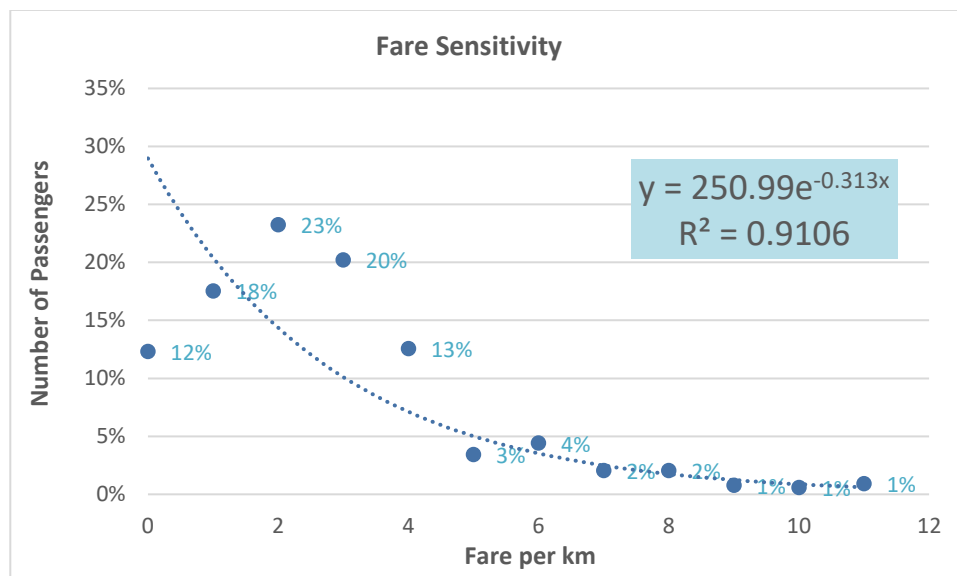
Distance Slab (km)	Willingness to Pay (Rs.)
0 to 2	9
2 to 6	17
More than 6	More than 18

Table 4-11 : Willingness to Shift Summary for Proposed PRT System

Reason to Shift	Willingness to Shift (%)
Time	61%
Cost	11%
Both Time and Cost	28%

Responses from the passengers willing to pay for their unit km of travel by proposed PRT have been plotted as scatter diagram to understand the fare sensitivity of the proposed PRT system. A best fitted exponential curve of equation $y = 250.99 \exp(-0.313x)$ explains the fare sensitivity of the passengers in terms of percentage share of passengers interested to pay different amount for per km of travel by proposed PRT system.

Figure 4-7 : Fare Sensitivity Diagram for Proposed PRT System



4.3 SPEED AND DELAY SURVEY

Speed and Delay Survey was carried out to assess the network characteristics of the study corridor. Moving car observer method was adopted wherein the observed speed and delay was recorded while travelling through the network in a car. Both the morning and evening peak speed data has been collected and overall average

speed has been estimated. The findings of the same are provided in the following table.

Table 4-12 : Observed Average Speed on Haridwar Old Road

Link (Both Direction)	Distance	Journey Time	Delay	Running Time	Journey Speed	Running Speed
	(km)	(Hr:Min:Sec)	(Hr:Min:Sec)	(Hr:Min:Sec)	(kmph)	(kmph)
Roorkee-Haridwar Road, Sitapur - Arya Nagar Chowk	2.50	00:07:40	00:00:34	00:07:06	19.63	21.21
Arya Nagar Chowk - Chandra Charya Chowk	1.60	00:05:08	00:00:46	00:04:21	18.77	22.10
Chandra Charya Chowk - Valmiki Chowk	3.00	00:10:20	00:01:02	00:09:18	17.45	19.42
Valmiki Chowk - Har-Ki-Pauri	1.30	00:04:58	00:01:11	00:03:46	15.74	20.72
Har-Ki-Pauri - Motichur	3.20	00:08:41	00:01:01	00:07:40	22.12	25.07
Roorkee-Haridwar Road, Sitapur - Motichur	11.60	00:36:46	00:04:35	00:32:11	18.93	21.62

Table 4-13 : Observed Average Speed on Madhya Marg and Laksar Road

Link (Both Direction)	Distance	Journey Time	Delay	Running Time	Journey Speed	Running Speed
	(km)	(Hr:Min:Sec)	(Hr:Min:Sec)	(Hr:Min:Sec)	(kmph)	(kmph)
SIIDCUL Bypass Road Junction - Chandra Charya Chowk	7.30	00:16:00	00:02:00	00:14:00	27.40	31.33
Chandra Charya Chowk - Kankhal Chowk	0.55	00:01:32	00:00:02	00:01:30	22.04	22.45
Kankhal Chowk - DAV School, Laksar Road	4.00	00:10:43	00:02:13	00:08:30	22.42	28.33
SIIDCUL Bypass Road Junction - DAV School, Laksar Road	11.85	00:28:15	00:04:15	00:24:00	25.17	29.63

The average network speed during peak hour on Haridwar Old Road (Upper Road) was observed to be 18.93 kmph whereas on Madhya Marg and Laksar Road was observed better speed as 25.17 kmph. The average link wise speed obtained from the multiple runs are also provided in the above table. This assessment would be further used as an input for assessing the network characteristics.

5 RIDERSHIP ESTIMATION

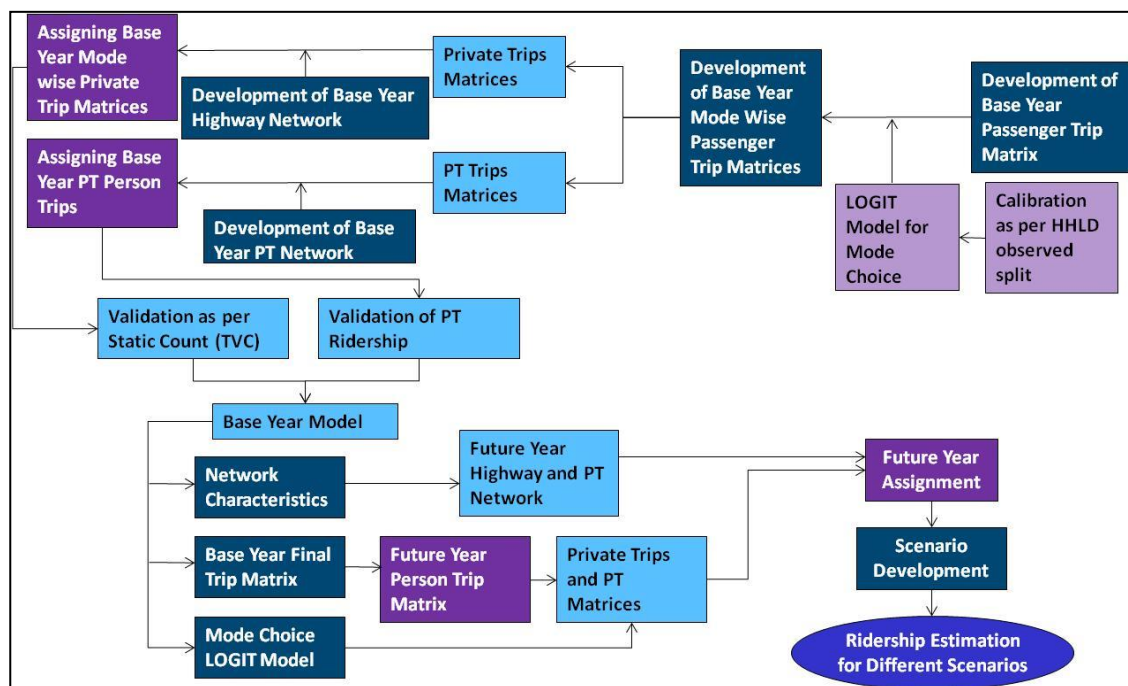
5.1 PLANNING PERIOD

The base year of the study is considered as 2019. Demand forecasting on the network was undertaken till 2031. In order to estimate the demand on the PRT corridor, all relevant data has been collated for the base year 2019 and secondary sources available. The horizon years are considered as 2021 and 2031.

5.2 ANALYTICAL FRAMEWORK FOR MODEL DEVELOPMENT

The figure below discusses the analytical framework towards the model built up. Worldwide accepted CUBE Voyager software has been utilized to develop the ridership estimation model. A complete three-fold analytical approach was adopted. The assignment technique adopted helped to ascertain the ridership at the proposed PRT corridors. This assignment technique involved:

Figure 5-1 Analytical Framework for Ridership Estimation Model



- Network Development:** The network development stage involves both the highway and transit network throughout the entire study area. Base year network is the existing road network. Once the base year mode-wise matrices are developed and assigned to the base year network, the network characteristics have been calibrated and validated with respect to the ground conditions. Further future year network has been developed for both the highway and public transport (PT) incorporating the additional future proposed road networks and future phases PT routes including proposed PRT routes with the base year validated network.
- Matrix Development:** Base year passenger trip matrix has been developed from the zone-wise population-employment database and calibrated. This calibrated passenger trip matrix was utilised to develop base year mode-wise passenger trip matrices as per the existing modal share.

- Once these base year passenger trip matrices have been assigned to the base year highway as well as transit network, the assigned passenger trips have been validated comparing to the existing database. These base year mode-wise passenger trips matrices further forecasted for future year with estimated future PCTR and modal shift from other modes to proposed PRT as per the Logit Model.
- **Trip Assignment:** Trip assignment has been conducted for both the highway assignment and PT assignment. Base year assigned trips has been validated in comparison with existing database to validate the model. Further future year assignment was undertaken to estimate the ridership for horizon years.

5.3 MODEL INPUT PARAMETERS

5.3.1 Population Projection and Trip Estimates

For estimation of projected population of Haridwar, recent past trend of both the residing population for Haridwar town as well as tourist population of the city have been analysed. Past population growth figures of Haridwar town as per available census data shows an average CAGR of around 2.3% from 1981 to 2011. Following this average CAGR of past 3 decades in Haridwar town, growth rate for projected population in 2021 is considered as 2.5%. Further, considering stabilisation of population as reflecting in recent past decades all over the country, projected population growth rates for 2031, 2041 and 2051 in Haridwar town are assumed as 2.0%, 1.6% and 1.3% respectively.

Table 5-1 Past Population Growth of Haridwar Town

Census Year	Population	CAGR (%)
1981	1,16,000	-
1991	1,47,000	2.4%
2001	1,75,340	1.8%
2011	2,28,832	2.7%

Source: Distric Census Handbook of Haridwar

Table 5-2 Past Trend of Tourist Population in Haridwar

Year	Yearly Tourist Numbers	Daily Tourist Numbers	CAGR (%)
2010	1,88,66,680	51,690	
2011	1,34,81,372	36,935	-28.5%
2012	1,52,58,750	41,805	13.2%
2013	1,27,86,261	35,031	-16.2%
2014	1,54,77,542	42,404	21.0%
2015	1,93,50,640	53,015	25.0%
2016	2,05,08,097	56,187	6.0%
2017	2,10,09,098	57,559	2.4%
2018	2,15,77,583	59,117	2.7%
2019	2,18,25,499	59,796	1.1%

Source: <https://uttarakhandtourism.gov.in/sites/default/files/document/type/Tourist-Statistics-from-2000-to-2002-of-Major-Tourist-Destinations.pdf>

Last 10 years tourist population of Haridwar from Uttarakhand Tourism data has been reviewed and analysed to understand the past trend of tourist population in Haridwar. Average of year-on-year growth for last 10 years tourist population of Haridwar is considered their growth rate (CAGR) for recent future till 2021. This estimated growth rate (CAGR) till 2021 is 3.0. Further, last 10 years trend in above table shows the tourist numbers are getting stabilised in recent 3 years and the average year-on-year growth rate for last years is as low as 2.1%. Therefore, with stabilisation of tourist population in Haridwar, the CAGR of tourists has been moderated from 3.0% in 2021 to 2.5%, 2.0% and 1.6% in 2031, 2041 and 2051 respectively. Applying the above-mentioned future growth rates for residential as well tourist population, the projected population for Haridwar is presented below:

Table 5-3 Projected Population and Total Trips for Haridwar

Population and Trips	2021	2031	2041	2051
Residing Population	2,92,924	3,57,073	4,18,499	4,76,199
Tourist Population (Daily)	63,408	81,168	98,943	1,15,964
Total Trips	4,59,715	5,79,153	6,94,403	8,05,043

5.3.2 Modal Split

Mode share of person trips was considered from OD survey conducted by the consultant. According to the observed modal split, it was found that only 6% daily trips are by bus and majority of trips consists of IPT (32%), two wheeler (39%) and car/ four wheeler (21%).

Table 5-4 Mode Share (%) of Motorized Trips

Mode	Percentage Share
Two Wheeler	38.5%
Car	21.3%
Tempo/Shared Auto	20.3%
E-Rickshaw	11.6%
Bus	5.9%
Cycle Rickshaw	2.4%
Total	100%

5.3.3 Assessment of Willingness to Shift

To assess the probability of shift from different existing motorized modes to new introduced PRT, mode-wise Binary Logit Model has been developed. According to this model, probability equation of mode used is as follows:

$$Pr(\text{Existing Mode}) = \frac{1}{1 + e^{\gamma(U(\text{PRT}) - U(\text{EM}))}}$$

Where, U (PRT) = Deterministic component of utility of PRT and U (EM) = Deterministic component of utility of Existing Mode.

γ = Constant factor estimated from regression analysis of willing to shift to PRT and Cost Difference from existing mode

These utility functions are:

$$U(EM) = \alpha WT(EM) + \beta TT(EM) + \gamma TC(EM) + \phi TR(EM) + \eta DC(EM)$$

$$\text{and } U(PRT) = \alpha WT(PRT) + \beta TT(PRT) + \gamma TC(PRT) + \phi TR(PRT) + \eta DC(PRT)$$

where, WT = Waiting Time

TT = Travel Time

TC = Travel Cost

TR = Transfer Cost

DC = Discomfort Cost

The traffic within Haridwar consists of multi directional traffic which differences w.r.t trip purposes. There is huge influx of tourism in Haridwar and it thus becomes essential to address the characteristics difference of tourist flow. Thus, the traffic pattern has been distributed and shift is applied to respective distribution to achieve a rational percentage of passengers that would shift from existing mode of transport to proposed PRT system.

5.3.4 Induced Traffic

When a new transport facility or service becomes available the users of the transport system can alter their behaviour in a number of manners like change their route, change mode, change destination to one easily reachable using the new system, change their trip making frequency, change the time of travel etc. Induced traffic is therefore defined as the additional traffic (in person or vehicle kilometres) that has been induced by the project through mode changes, destination changes, trip re-timing, trip frequency changes or new trips associated with different land uses. Estimation of induced traffic depends on the user benefits caused by the transportation changes. In the majority of situations, the calculation of the user benefit associated with induced traffic is relatively straight forward and utilises the Rule of Half (RoH) methodology. According to RoH, user benefits due to introduce of new mode as PRT is estimated as 12.4%. Therefore, 12% additional passengers have already been attributed as induced traffic for the operation of PRT system. Estimated Riderships for both normal day and Poornima (Mela) day for all different options as presented in this report are including the induced traffic.

5.4 OPTION BUILDING

To evaluate the best possible network and to estimate the optimum demand for that selected network for proposed PRT system, a set of 7 different possible network combinations have been conceptualised. The combinations tested out as a part of evaluation process are discussed below. Ridership estimates has been carried out for the following proposed combinations for the horizon years – 2021 and 2031. There are 75 festival days in a year in Haridwar, when a large number of tourist or pilgrims visit the city including all important ghats and temples. Therefore, ridership models for a normal day and Poornima (Mela) day separately have been developed for all different options and horizon years.

1. **Option-I:** Har-Ki-Pauri to Sitapur on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge
2. **Option-II:** Motichur to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge
3. **Option-III:** Motichur to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge and Haridwar Main Road (Prem Nagar) to Shivalik Nagar (BHEL Township) along Madhya Marg
4. **Option-IV:** Motichur to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge and Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road
5. **Option-V:** Motichur to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge, Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road and Haridwar Main Road (Prem Nagar) to Shivalik Nagar (BHEL Township) along Madhya Marg
6. **Option-VI:** Bharat Mata Temple to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge and Haridwar Main Road (Prem Nagar) to Daksh Temple via Kankhal area
7. **Option-VII:** Bharat Mata Temple to Sitapur via Har-Ki-Pauri on Haridwar-Rishikesh Main Road including connection with proposed metro via Laltaro Bridge, Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road and Kankhal area (Ganeshpuram) to Daksh Temple.

5.4.1 Option-I

In Option-I, proposed PRT corridor was conceptualised from Sitapur to Har-Ki-Pauri including connection with proposed metro via Laltaro Bridge. It has been observed that ridership estimates for normal day in Option-I are low for both the horizon years and this may not be a viable option due to its shorter length and lower catchment area. Therefore, it is suggested to further extend the corridor and estimate the ridership for the horizon years.

5.4.2 Option-II

In case of Option-II, ridership estimation was carried out for additional 3km corridor; extending option-I till Shantikunj (Motichur) area along Haridwar-Rishikesh Main Road. Option-II from Sitapur to Motichur has been worked out to add the Shantikunj Gayatri Parivar passengers.

5.4.3 Option-III

In case of Option-III, ridership estimation was carried out for additional two corridors (in addition to Option-I); Haridwar Main Road (Prem Nagar) to Shivalik Nagar (BHEL Township) along Madhya Marg and Har-Ki-Pauri to Motichur connecting Haridwar-Rishikesh Main Road.

5.4.4 Option-IV

In case of Option-IV, ridership estimation was carried out for additional two corridors (in addition to Option-I); Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road and Har-Ki-Pauri to Motichur connecting Haridwar-Rishikesh Main Road.

5.4.5 Option-V

In case of Option-V, ridership estimation was carried out for additional three corridors (in addition to Option-I); Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road, Haridwar Main Road (Prem Nagar) to Shivalik Nagar (BHEL Township) along Madhya Marg and Har-Ki-Pauri to Motichur connecting Haridwar-Rishikesh Main Road.

5.4.6 Option-VI

In case of Option-VI, ridership estimation was carried out for additional two corridors (in addition to Option-I); Haridwar Main Road (Prem Nagar) to Daksh Temple via Kankhal area and Har-Ki-Pauri to Bharat Mata Temple via Motichur and Shantikunj area.

5.4.7 Option-VII

In case of Option-VII, ridership estimation was carried out for additional three corridors (in addition to Option-I); Haridwar Main Road (Prem Nagar) to Kankhal area (near DAV school) along Laksar road, Har-Ki-Pauri to Bharat Mata Temple via Motichur and Shantikunj area and Kankhal area (Ganeshpuram) to Daksh Temple.

5.5 ESTIMATED RIDERSHIP ON PROPOSED PRT SYSTEM FOR 2021 AND 2031

5.5.1 Ridership Details for Option-I

Tables below presents the proposed daily and peak hour ridership estimates in option-I for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-5: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-I

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Har-Ki-Pauri	8.24	20,174	629	74,376	3.69
2021	Valmiki Chowk - Laltaro Bridge	0.69	2,646	135	1,720	0.65
2031	Sitapur - Har-Ki-Pauri	8.24	32,675	970	1,29,127	3.95
2031	Valmiki Chowk - Laltaro Bridge	0.69	4,145	210	2,694	0.65

Table 5-6: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-I

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Har-Ki-Pauri	8.24	73,535	2,502	2,42,206	3.29
2021	Valmiki Chowk - Laltaro Bridge	0.69	11,189	573	7,273	0.65
2031	Sitapur - Har-Ki-Pauri	8.24	94,485	3,103	3,80,021	4.02
2031	Valmiki Chowk - Laltaro Bridge	0.69	13,520	688	8,788	0.65

Table 5-7: Daily PRT Ridership Details for Normal Day – Option-I

Sitapur-Har-Ki-Pauri Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	688	0	0	10	Har-Ki-Pauri	2,934	0	0
2	Jwalapur	2,148	90	688	9	Mansadevi Ropeway Gate	1,985	219	2,934
3	Arya Nagar	1,137	143	2,747	8	Valmiki Chowk	1,858	543	4,700
4	Ram Nagar	585	136	3,741	7	Haridwar Railway Station	2,009	2,571	6,015
5	City Hospital	469	163	4,190	6	Rishikul	700	1,603	5,453
6	Rishikul	1,761	634	4,495	5	City Hospital	154	548	4,550
7	Haridwar Railway Station	2,665	1,997	5,622	4	Ram Nagar	142	601	4,155
8	Valmiki Chowk	507	1,901	6,290	3	Arya Nagar	141	1,431	3,696
9	Mansadevi Ropeway Gate	191	1,922	4,896	2	Jwalapur	100	1,749	2,406
10	Har-Ki-Pauri	0	3,165	3,165	1	Sitapur	0	758	758
	Total	10,150	10,150			Total	10,024	10,024	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,345	0	0	2	Laltaro Bridge	1,301	0	0
2	Laltaro Bridge	0	1,345	1,345	1	Valmiki Chowk	0	1,301	1,301
	Total	1,345	1,345			Total	1,301	1,301	

Sitapur-Har-Ki-Pauri Corridor Daily Ridership for Normal Day - Horizon Year 2031									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,302	0	0	10	Har-Ki-Pauri	4,441	0	0
2	Jwalapur	3,642	193	1,302	9	Mansadevi Ropeway Gate	2,886	246	4,441
3	Arya Nagar	2,780	414	4,751	8	Valmiki Chowk	3,205	667	7,080
4	Ram Nagar	1,098	404	7,117	7	Haridwar Railway Station	2,875	2,907	9,618
5	City Hospital	1,087	453	7,811	6	Rishikul	1,590	2,310	9,585
6	Rishikul	2,542	1,442	8,445	5	City Hospital	415	1,255	8,866
7	Haridwar Railway Station	2,979	2,820	9,546	4	Ram Nagar	373	1,190	8,026
8	Valmiki Chowk	619	3,048	9,704	3	Arya Nagar	394	3,452	7,209
9	Mansadevi Ropeway Gate	226	2,787	7,275	2	Jwalapur	222	2,951	4,151
10	Har-Ki-Pauri	0	4,713	4,713	1	Sitapur	0	1,422	1,422
	Total	16,275	16,275			Total	16,400	16,400	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,043	0	0	2	Laltaro Bridge	2,102	0	0
2	Laltaro Bridge	0	2,043	2,043	1	Valmiki Chowk	0	2,102	2,102
Total		2,043	2,043		Total		2,102	2,102	

Table 5-8: Daily PRT Ridership Details for Poornima (Mela) Day - Option I

Sitapur-Har-Ki-Pauri Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,780	0	0	10	Har-Ki-Pauri	12,052	0	0
2	Jwalapur	5,169	120	1,780	9	Mansadevi Ropeway Gate	8,778	1,134	12,052
3	Arya Nagar	3,490	211	6,829	8	Valmiki Chowk	7,309	2,806	19,696
4	Ram Nagar	1,774	203	10,108	7	Haridwar Railway Station	6,602	13,288	24,199
5	City Hospital	1,332	250	11,679	6	Rishikul	1,109	5,437	17,513
6	Rishikul	5,971	994	12,761	5	City Hospital	235	1,516	13,185
7	Haridwar Railway Station	13,769	6,492	17,738	4	Ram Nagar	211	1,814	11,904
8	Valmiki Chowk	2,620	7,605	25,015	3	Arya Nagar	210	4,488	10,301
9	Mansadevi Ropeway Gate	985	8,299	20,030	2	Jwalapur	136	4,217	6,023
10	Har-Ki-Pauri	0	12,719	12,716	1	Sitapur	0	1,945	1,942
Total		36,890	36,893		Total		36,642	36,645	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	5,727	0	0	2	Laltaro Bridge	5,462	0	0
2	Laltaro Bridge	0	5,727	5,727	1	Valmiki Chowk	0	5,462	5,462
Total		5,727	5,727		Total		5,462	5,462	

Sitapur-Har-Ki-Pauri Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	3,449	0	0	10	Har-Ki-Pauri	14,005	0	0
2	Jwalapur	8,025	254	3,449	9	Mansadevi Ropeway Gate	9,255	786	14,005

3	Arya Nagar	8,369	580	11,220		8	Valmiki Chowk	10,538	2,131	22,474
4	Ram Nagar	3,191	577	19,009		7	Haridwar Railway Station	9,436	9,286	30,881
5	City Hospital	2,979	648	21,623		6	Rishikul	2,418	7,835	31,031
6	Rishikul	8,624	2,197	23,954		5	City Hospital	599	3,332	25,614
7	Haridwar Railway Station	9,513	9,203	30,381		4	Ram Nagar	541	3,461	22,881
8	Valmiki Chowk	1,975	9,938	30,691		3	Arya Nagar	562	10,666	19,961
9	Mansadevi Ropeway Gate	722	8,864	22,728		2	Jwalapur	285	6,528	9,857
10	Har-Ki-Pauri	0	14,584	14,586		1	Sitapur	0	3,614	3,614
	Total	46,847	46,845				Total	47,639	47,639	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,638	0	0	2	Laltaro Bridge	6,882	0	0
2	Laltaro Bridge	0	6,638	6,638	1	Valmiki Chowk	0	6,882	6,882
	Total	6,638	6,638			Total	6,882	6,882	

Table 5-9: Peak Hour PRT Ridership Details for Normal Day - Option I

Sitapur-Har-Ki-Pauri Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021

Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	69	0	0	10	Har-Ki-Pauri	293	0	0
2	Jwalapur	215	9	69	9	Mansadevi Ropeway Gate	199	22	293
3	Arya Nagar	114	14	275	8	Valmiki Chowk	186	54	470
4	Ram Nagar	58	14	374	7	Haridwar Railway Station	201	257	602
5	City Hospital	47	16	419	6	Rishikul	70	160	545
6	Rishikul	176	63	450	5	City Hospital	15	55	455
7	Haridwar Railway Station	266	200	562	4	Ram Nagar	14	60	416
8	Valmiki Chowk	51	190	629	3	Arya Nagar	14	143	370
9	Mansadevi Ropeway Gate	19	192	490	2	Jwalapur	10	175	241
10	Har-Ki-Pauri	0	316	316	1	Sitapur	0	76	76
	Total	1,015	1,014			Total	1,002	1,002	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load

1	Valmiki Chowk	135	0	0	2	Laltaro Bridge	130	0	0
2	Laltaro Bridge	0	135	135	1	Valmiki Chowk	0	130	130
Total		135	135		Total		130	130	
Sitapur-Har-Ki-Pauri Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	130	0	0	10	Har-Ki-Pauri	444	0	0
2	Jwalapur	364	19	130	9	Mansadevi Ropeway Gate	289	25	444
3	Arya Nagar	278	41	475	8	Valmiki Chowk	320	67	708
4	Ram Nagar	110	40	712	7	Haridwar Railway Station	287	291	962
5	City Hospital	109	45	781	6	Rishikul	159	231	959
6	Rishikul	254	144	844	5	City Hospital	42	126	887
7	Haridwar Railway Station	298	282	955	4	Ram Nagar	37	119	803
8	Valmiki Chowk	62	305	970	3	Arya Nagar	39	345	721
9	Mansadevi Ropeway Gate	23	279	727	2	Jwalapur	22	295	415
10	Har-Ki-Pauri	0	471	471	1	Sitapur	0	142	142
Total		1,628	1,628		Total		1,639	1,639	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	204	0	0	2	Laltaro Bridge	210	0	0
2	Laltaro Bridge	0	204	204	1	Valmiki Chowk	0	210	210
Total		204	204		Total		210	210	

Table 5-10: Peak Hour PRT Ridership Details for Poornima (Mela) Day - Option I

Sitapur-Har-Ki-Pauri Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	178	0	0	10	Har-Ki-Pauri	1,205	0	0
2	Jwalapur	517	12	178	9	Mansadevi Ropeway Gate	878	113	1,205
3	Arya Nagar	349	21	683	8	Valmiki Chowk	731	281	1,970
4	Ram Nagar	177	20	1,011	7	Haridwar Railway Station	660	1,329	2,420
5	City Hospital	133	25	1,168	6	Rishikul	111	544	1,751
6	Rishikul	597	99	1,276	5	City Hospital	24	152	1,319
7	Haridwar Railway Station	1,377	649	1,774	4	Ram Nagar	21	181	1,190
8	Valmiki Chowk	262	761	2,502	3	Arya Nagar	21	449	1,030
9	Mansadevi Ropeway Gate	99	830	2,003	2	Jwalapur	14	422	602

10	Har-Ki-Pauri	0	1,272	1,272		1	Sitapur	0	195	194
	Total	3,689	3,689				Total	3,665	3,666	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	573	0	0		2	Laltaro Bridge	546	0	0
2	Laltaro Bridge	0	573	573		1	Valmiki Chowk	0	546	546
	Total	573	573				Total	546	546	
Sitapur-Har-Ki-Pauri Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031										
Sitapur to Har-Ki-Pauri Direction					Har-Ki-Pauri to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	345	0	0		10	Har-Ki-Pauri	1,401	0	0
2	Jwalapur	803	25	345		9	Mansadevi Ropeway Gate	926	79	1,401
3	Arya Nagar	837	58	1,122		8	Valmiki Chowk	1,054	213	2,247
4	Ram Nagar	319	58	1,901		7	Haridwar Railway Station	944	929	3,088
5	City Hospital	298	65	2,162		6	Rishikul	242	784	3,103
6	Rishikul	862	220	2,395		5	City Hospital	60	333	2,561
7	Haridwar Railway Station	951	920	3,038		4	Ram Nagar	54	346	2,288
8	Valmiki Chowk	198	994	3,069		3	Arya Nagar	56	1,067	1,996
9	Mansadevi Ropeway Gate	72	886	2,273		2	Jwalapur	29	653	986
10	Har-Ki-Pauri	0	1,458	1,459		1	Sitapur	0	361	361
	Total	4,685	4,685				Total	4,766	4,766	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	664	0	0		2	Laltaro Bridge	688	0	0
2	Laltaro Bridge	0	664	664		1	Valmiki Chowk	0	688	688
	Total	664	664				Total	688	688	

5.5.2 Ridership Details for Option-II

Tables below present the proposed daily and peak hour ridership estimates in option-II for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-11: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-II

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	34,544	1,165	1,58,005	4.57
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,044	156	1,979	0.65
2031	Sitapur - Motichur	11.03	52,634	1,727	2,46,782	4.69
2031	Valmiki Chowk - Laltaro Bridge	0.69	4,620	233	3,003	0.65

Table 5-12: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-II

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	87,905	3,038	3,26,159	3.71
2021	Valmiki Chowk - Laltaro Bridge	0.69	11,587	594	7,531	0.65
2031	Sitapur - Motichur	11.03	1,14,444	3,830	4,98,170	4.35
2031	Valmiki Chowk - Laltaro Bridge	0.69	13,995	711	9,097	0.65

Table 5-13: Daily PRT Ridership Details for Normal Day – Option-II

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2021										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	765	0	0	12	Motichur	6,482	0	0	
2	Jwalapur	2,328	90	765	11	Kharkhari	800	116	6,482	
3	Arya Nagar	1,308	143	3,003	10	Har-Ki-Pauri	2,934	893	7,166	
4	Ram Nagar	667	136	4,168	9	Mansadevi Ropeway Gate	1,985	806	9,207	
5	City Hospital	535	163	4,699	8	Valmiki Chowk	1,858	926	10,386	
6	Rishikul	2,733	634	5,071	7	Haridwar Railway Station	2,009	6,364	11,318	
7	Haridwar Railway Station	6,477	1,997	7,170	6	Rishikul	700	2,563	6,963	
8	Valmiki Chowk	847	1,901	11,650	5	City Hospital	154	622	5,100	
9	Mansadevi Ropeway Gate	679	1,922	10,596	4	Ram Nagar	142	683	4,632	
10	Har-Ki-Pauri	755	3,165	9,353	3	Arya Nagar	141	1,579	4,091	
11	Kharkhari	143	699	6,943	2	Jwalapur	100	1,913	2,653	
12	Motichur	0	6,389	6,387	1	Sitapur	0	842	840	
Total		17,237	17,239		Total		17,305	17,307		

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,555	0	0	2	Laltaro Bridge	1,489	0	0
2	Laltaro Bridge	0	1,555	1,555	1	Valmiki Chowk	0	1,489	1,489
Total		1,555	1,555		Total		1,489	1,489	
Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,439	0	0	12	Motichur	8,584	0	0
2	Jwalapur	3,923	193	1,439	11	Kharkhari	1,526	175	8,584
3	Arya Nagar	3,187	414	5,169	10	Har-Ki-Pauri	4,441	1,234	9,935
4	Ram Nagar	1,238	404	7,942	9	Mansadevi Ropeway Gate	2,886	1,074	13,142
5	City Hospital	1,236	453	8,776	8	Valmiki Chowk	3,205	1,118	14,954
6	Rishikul	4,003	1,442	9,559	7	Haridwar Railway Station	2,875	7,856	17,041
7	Haridwar Railway Station	7,965	2,820	12,120	6	Rishikul	1,590	3,749	12,060
8	Valmiki Chowk	1,031	3,048	17,265	5	City Hospital	415	1,417	9,901
9	Mansadevi Ropeway Gate	894	2,787	15,248	4	Ram Nagar	373	1,337	8,899
10	Har-Ki-Pauri	1,020	4,713	13,355	3	Arya Nagar	394	3,788	7,935
11	Kharkhari	188	1,428	9,662	2	Jwalapur	222	3,203	4,541
12	Motichur	0	8,421	8,422	1	Sitapur	0	1,559	1,560
Total		26,124	26,123		Total		26,511	26,510	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,291	0	0	2	Laltaro Bridge	2,329	0	0
2	Laltaro Bridge	0	2,291	2,291	1	Valmiki Chowk	0	2,329	2,329
Total		2,291	2,291		Total		2,329	2,329	

Table 5-14: Daily PRT Ridership Details for Poornima (Mela) Day – Option-II

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,857	0	0	12	Motichur	6,482	0	0
2	Jwalapur	5,349	120	1,857	11	Kharkhari	800	116	6,482
3	Arya Nagar	3,661	211	7,086	10	Har-Ki-Pauri	12,052	893	7,166
4	Ram Nagar	1,856	203	10,536	9	Mansadevi Ropeway Gate	8,778	1,721	18,325
5	City Hospital	1,398	250	12,189	8	Valmiki Chowk	7,309	3,188	25,382

6	Rishikul	6,944	994	13,337		7	Haridwar Railway Station	6,602	17,081	29,503
7	Haridwar Railway Station	17,582	6,492	19,287		6	Rishikul	1,109	6,396	19,024
8	Valmiki Chowk	2,961	7,605	30,377		5	City Hospital	235	1,590	13,737
9	Mansadevi Ropeway Gate	1,473	8,299	25,733		4	Ram Nagar	211	1,896	12,382
10	Har-Ki-Pauri	755	12,719	18,907		3	Arya Nagar	210	4,636	10,697
11	Kharkhari	143	699	6,943		2	Jwalapur	136	4,381	6,271
12	Motichur	0	6,389	6,387		1	Sitapur	0	2,029	2,026
	Total	43,979	43,981				Total	43,924	43,927	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	5,937	0	0	2	Laltaro Bridge	5,650	0	0
2	Laltaro Bridge	0	5,937	5,937	1	Valmiki Chowk	0	5,650	5,650
	Total	5,937	5,937			Total	5,650	5,650	

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	3,586	0	0	12	Motichur	8,584	0	0
2	Jwalapur	8,306	254	3,586	11	Kharkhari	1,526	175	8,584
3	Arya Nagar	8,775	580	11,638	10	Har-Ki-Pauri	14,005	1,234	9,935
4	Ram Nagar	3,331	577	19,833	9	Mansadevi Ropeway Gate	9,255	1,614	22,706
5	City Hospital	3,128	648	22,587	8	Valmiki Chowk	10,538	2,582	30,347
6	Rishikul	10,085	2,197	25,067	7	Haridwar Railway Station	9,436	14,235	38,303
7	Haridwar Railway Station	14,499	9,203	32,955	6	Rishikul	2,418	9,274	33,504
8	Valmiki Chowk	2,387	9,938	38,251	5	City Hospital	599	3,494	26,648
9	Mansadevi Ropeway Gate	1,390	8,864	30,700	4	Ram Nagar	541	3,608	23,753
10	Har-Ki-Pauri	1,020	14,584	23,226	3	Arya Nagar	562	11,003	20,686
11	Kharkhari	188	1,428	9,662	2	Jwalapur	285	6,780	10,245
12	Motichur	0	8,421	8,422	1	Sitapur	0	3,751	3,750
	Total	56,695	56,694			Total	57,749	57,750	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,886	0	0	2	Laltaro Bridge	7,109	0	0
2	Laltaro Bridge	0	6,886	6,886	1	Valmiki Chowk	0	7,109	7,109
	Total	6,886	6,886			Total	7,109	7,109	

Table 5-15: Peak Hour PRT Ridership Details for Normal Day – Option-II

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	77	0	0	12	Motichur	648	0	0
2	Jwalapur	233	9	77	11	Kharkhari	80	12	648
3	Arya Nagar	131	14	300	10	Har-Ki-Pauri	293	89	717
4	Ram Nagar	67	14	417	9	Mansadevi Ropeway Gate	199	81	921
5	City Hospital	54	16	470	8	Valmiki Chowk	186	93	1,039
6	Rishikul	273	63	507	7	Haridwar Railway Station	201	636	1,132
7	Haridwar Railway Station	648	200	717	6	Rishikul	70	256	696
8	Valmiki Chowk	85	190	1,165	5	City Hospital	15	62	510
9	Mansadevi Ropeway Gate	68	192	1,060	4	Ram Nagar	14	68	463
10	Har-Ki-Pauri	76	317	935	3	Arya Nagar	14	158	409
11	Kharkhari	14	70	694	2	Jwalapur	10	191	265
12	Motichur	0	639	639	1	Sitapur	0	84	84
Total		1,726	1,724		Total		1,730	1,730	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	156	0	0	2	Laltaro Bridge	149	0	0
2	Laltaro Bridge	0	156	156	1	Valmiki Chowk	0	149	149
Total		156	156		Total		149	149	

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	144	0	0	12	Motichur	858	0	0
2	Jwalapur	392	19	144	11	Kharkhari	153	18	858
3	Arya Nagar	319	41	517	10	Har-Ki-Pauri	444	123	994
4	Ram Nagar	124	40	794	9	Mansadevi Ropeway Gate	289	107	1,314
5	City Hospital	124	45	878	8	Valmiki Chowk	321	112	1,495
6	Rishikul	400	144	956	7	Haridwar Railway Station	288	786	1,704
7	Haridwar Railway Station	797	282	1,212	6	Rishikul	159	375	1,206
8	Valmiki Chowk	103	305	1,727	5	City Hospital	42	142	990

9	Mansadevi Ropeway Gate	89	279	1,525		4	Ram Nagar	37	134	890
10	Har-Ki-Pauri	102	471	1,336		3	Arya Nagar	39	379	794
11	Kharkhari	19	143	966		2	Jwalapur	22	320	454
12	Motichur	0	842	842		1	Sitapur	0	156	156
	Total	2,613	2,613				Total	2,652	2,652	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	229	0	0	2	Laltaro Bridge	233	0	0	
2	Laltaro Bridge	0	229	229	1	Valmiki Chowk	0	233	233	
	Total	229	229			Total	233	233		

Table 5-16: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-II

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	186	0	0	12	Motichur	648	0	0	
2	Jwalapur	535	12	186	11	Kharkhari	80	12	648	
3	Arya Nagar	366	21	709	10	Har-Ki-Pauri	1,205	89	717	
4	Ram Nagar	186	20	1,054	9	Mansadevi Ropeway Gate	878	172	1,833	
5	City Hospital	140	25	1,219	8	Valmiki Chowk	731	319	2,538	
6	Rishikul	694	99	1,334	7	Haridwar Railway Station	660	1,708	2,950	
7	Haridwar Railway Station	1,758	649	1,929	6	Rishikul	111	640	1,902	
8	Valmiki Chowk	296	761	3,038	5	City Hospital	24	159	1,374	
9	Mansadevi Ropeway Gate	147	830	2,573	4	Ram Nagar	21	190	1,238	
10	Har-Ki-Pauri	76	1,272	1,891	3	Arya Nagar	21	464	1,070	
11	Kharkhari	14	70	694	2	Jwalapur	14	438	627	
12	Motichur	0	639	639	1	Sitapur	0	203	203	
	Total	4,398	4,398			Total	4,393	4,394		

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	594	0	0	2	Laltaro Bridge	565	0	0	
2	Laltaro Bridge	0	594	594	1	Valmiki Chowk	0	565	565	
	Total	594	594			Total	565	565		

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	359	0	0	12	Motichur	858	0	0
2	Jwalapur	831	25	359	11	Kharkhari	153	18	858
3	Arya Nagar	878	58	1,164	10	Har-Ki-Pauri	1,401	123	994
4	Ram Nagar	333	58	1,983	9	Mansadevi Ropeway Gate	926	161	2,271
5	City Hospital	313	65	2,259	8	Valmiki Chowk	1,054	258	3,035
6	Rishikul	1,009	220	2,507	7	Haridwar Railway Station	944	1,424	3,830
7	Haridwar Railway Station	1,450	920	3,296	6	Rishikul	242	927	3,350
8	Valmiki Chowk	239	994	3,825	5	City Hospital	60	349	2,665
9	Mansadevi Ropeway Gate	139	886	3,070	4	Ram Nagar	54	361	2,375
10	Har-Ki-Pauri	102	1,458	2,323	3	Arya Nagar	56	1,100	2,069
11	Kharkhari	19	143	966	2	Jwalapur	29	678	1,025
12	Motichur	0	842	842	1	Sitapur	0	375	375
	Total	5,672	5,672			Total	5,777	5,777	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	689	0	0	2	Laltaro Bridge	711	0	0
2	Laltaro Bridge	0	689	689	1	Valmiki Chowk	0	711	711
	Total	689	689			Total	711	711	

5.5.3 Ridership Details for Option-III

Tables below present the proposed daily and peak hour ridership estimates in option-III for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-17: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-III

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	49,748	1,521	2,12,589	4.27
2021	BHEL Sector-5 - City Hospital	6.50	17,240	856	78,964	4.58
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,935	206	2,558	0.65
2031	Sitapur - Motichur	11.03	68,110	2,016	2,97,984	4.38
2031	BHEL Sector-5 - City Hospital	6.50	17,364	847	70,841	4.08
2031	Valmiki Chowk - Laltaro Bridge	0.69	5,361	269	3,485	0.65

Table 5-18: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-III

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	1,03,109	3,394	3,80,743	3.69
2021	BHEL Sector-5 - City Hospital	6.50	17,240	856	1,03,234	5.99
2021	Valmiki Chowk - Laltaro Bridge	0.69	12,478	644	8,111	0.65
2031	Sitapur - Motichur	11.03	1,29,920	4,115	5,49,373	4.23
2031	BHEL Sector-5 - City Hospital	6.50	17,364	847	93,677	5.39
2031	Valmiki Chowk - Laltaro Bridge	0.69	14,736	745	9,578	0.65

Table 5-19: Daily PRT Ridership Details for Normal Day – Option-III

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2021										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	1,100	0	0	12	Motichur	7,067	0	0	
2	Jwalapur	2,768	90	1,100	11	Kharkhari	966	116	7,067	
3	Arya Nagar	1,589	143	3,778	10	Har-Ki-Pauri	3,936	893	7,917	
4	Ram Nagar	904	136	5,224	9	Mansadevi Ropeway Gate	2,440	806	10,960	
5	City Hospital	7,211	1,456	5,992	8	Valmiki Chowk	2,563	926	12,594	
6	Rishikul	2,733	1,649	11,747	7	Haridwar Railway Station	3,773	6,364	14,231	
7	Haridwar Railway Station	6,477	4,094	12,831	6	Rishikul	1,671	2,563	11,640	
8	Valmiki Chowk	847	2,817	15,214	5	City Hospital	1,743	6,268	10,748	
9	Mansadevi Ropeway Gate	679	2,476	13,244	4	Ram Nagar	142	972	6,223	
10	Har-Ki-Pauri	755	4,335	11,447	3	Arya Nagar	141	1,948	5,393	
11	Kharkhari	143	880	7,867	2	Jwalapur	100	2,403	3,586	
12	Motichur	0	7,130	7,130	1	Sitapur	0	1,283	1,283	
Total		25,206	25,206		Total		24,542	24,542		

BHEL Sector-5-City Hospital Corridor Daily Ridership for Normal Day - Horizon Year 2021										
BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	BHEL Sector-5	1,708	0	0	8	City Hospital	7,182	0	0	
2	Radisson Blue	1,899	85	1,708	7	BHEL Sector-1	148	712	7,182	
3	Shivalik Nagar	798	64	3,522	6	BHEL Sector-2	199	1,849	6,618	
4	BHEL Sector-4	701	45	4,256	5	BHEL Factory	156	1,223	4,968	
5	BHEL Factory	1,432	170	4,912	4	BHEL Sector-4	57	523	3,901	
6	BHEL Sector-2	1,998	214	6,174	3	Shivalik Nagar	67	640	3,435	
7	BHEL Sector-1	772	172	7,958	2	Radisson Blue	121	1,317	2,862	
8	City Hospital	0	8,560	8,558	1	BHEL Sector-5	0	1,668	1,666	
Total		9,308	9,308		Total		7,930	7,930		

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,059	0	0	2	Laltaro Bridge	1,876	0	0
2	Laltaro Bridge	0	2,059	2,059	1	Valmiki Chowk	0	1,876	1,876
Total		2,059	2,059		Total		1,876	1,876	

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,946	0	0	12	Motichur	9,029	0	0
2	Jwalapur	4,520	193	1,946	11	Kharkhari	1,721	175	9,029
3	Arya Nagar	3,606	414	6,273	10	Har-Ki-Pauri	5,418	1,234	10,575
4	Ram Nagar	1,583	404	9,465	9	Mansadevi Ropeway Gate	3,283	1,074	14,759
5	City Hospital	7,185	2,323	10,644	8	Valmiki Chowk	3,822	1,118	16,968
6	Rishikul	4,003	2,915	15,506	7	Haridwar Railway Station	4,266	7,856	19,672
7	Haridwar Railway Station	7,965	4,398	16,594	6	Rishikul	3,139	3,749	16,082
8	Valmiki Chowk	1,031	3,779	20,161	5	City Hospital	2,499	6,990	15,472
9	Mansadevi Ropeway Gate	894	3,225	17,413	4	Ram Nagar	373	1,731	10,981
10	Har-Ki-Pauri	1,020	5,742	15,082	3	Arya Nagar	394	4,282	9,623
11	Kharkhari	188	1,630	10,360	2	Jwalapur	222	3,800	5,735
12	Motichur	0	8,921	8,918	1	Sitapur	0	2,160	2,157
Total		33,941	33,944		Total		34,166	34,169	

BHEL Sector-5-City Hospital Corridor Daily Ridership for Normal Day - Horizon Year 2031

BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	982	0	0	8	City Hospital	7,838	0	0
2	Radisson Blue	1,122	23	982	7	BHEL Sector-1	111	722	7,838
3	Shivalik Nagar	1,379	53	2,081	6	BHEL Sector-2	177	2,845	7,227
4	BHEL Sector-4	781	42	3,407	5	BHEL Factory	104	1,178	4,559
5	BHEL Factory	1,289	105	4,146	4	BHEL Sector-4	49	638	3,485
6	BHEL Sector-2	2,692	195	5,330	3	Shivalik Nagar	53	1,136	2,896
7	BHEL Sector-1	756	116	7,827	2	Radisson Blue	30	855	1,813
8	City Hospital	0	8,468	8,467	1	BHEL Sector-5	0	989	988
Total		9,001	9,001		Total		8,362	8,362	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,692	0	0	2	Laltaro Bridge	2,669	0	0
2	Laltaro Bridge	0	2,692	2,692	1	Valmiki Chowk	0	2,669	2,669
Total		2,692	2,692		Total		2,669	2,669	

Table 5-20: Daily PRT Ridership Details for Poornima (Mela) Day – Option-III

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,192	0	0	12	Motichur	7,067	0	0
2	Jwalapur	5,789	120	2,192	11	Kharkhari	966	116	7,067
3	Arya Nagar	3,942	211	7,861	10	Har-Ki-Pauri	13,054	893	7,917
4	Ram Nagar	2,093	203	11,592	9	Mansadevi Ropeway Gate	9,232	1,721	20,078
5	City Hospital	8,074	1,542	13,482	8	Valmiki Chowk	8,014	3,188	27,589
6	Rishikul	6,944	2,010	20,014	7	Haridwar Railway Station	8,367	17,081	32,415
7	Haridwar Railway Station	17,582	8,588	24,948	6	Rishikul	2,079	6,396	23,701
8	Valmiki Chowk	2,961	8,521	33,942	5	City Hospital	1,825	7,236	19,384
9	Mansadevi Ropeway Gate	1,473	8,853	28,382	4	Ram Nagar	211	2,185	13,973
10	Har-Ki-Pauri	755	13,889	21,002	3	Arya Nagar	210	5,005	11,999
11	Kharkhari	143	880	7,868	2	Jwalapur	136	4,871	7,204
12	Motichur	0	7,130	7,131	1	Sitapur	0	2,470	2,469
Total		51,948	51,947		Total		51,161	51,162	
BHEL Sector-5-City Hospital Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	1,708	0	0	8	City Hospital	7,182	0	0
2	Radisson Blue	1,899	85	1,708	7	BHEL Sector-1	148	712	7,182
3	Shivalik Nagar	798	64	3,522	6	BHEL Sector-2	199	1,849	6,618
4	BHEL Sector-4	701	45	4,256	5	BHEL Factory	156	1,223	4,968
5	BHEL Factory	1,432	170	4,912	4	BHEL Sector-4	57	523	3,901
6	BHEL Sector-2	1,998	214	6,174	3	Shivalik Nagar	67	640	3,435
7	BHEL Sector-1	772	172	7,958	2	Radisson Blue	121	1,317	2,862
8	City Hospital	0	8,560	8,558	1	BHEL Sector-5	0	1,668	1,666
Total		9,308	9,308		Total		7,930	7,930	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,441	0	0	2	Laltaro Bridge	6,037	0	0
2	Laltaro Bridge	0	6,441	6,441	1	Valmiki Chowk	0	6,037	6,037
Total		6,441	6,441		Total		6,037	6,037	
Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	4,093	0	0	12	Motichur	9,029	0	0
2	Jwalapur	8,904	254	4,093	11	Kharkhari	1,721	175	9,029
3	Arya Nagar	9,195	580	12,743	10	Har-Ki-Pauri	14,983	1,234	10,575
4	Ram Nagar	3,676	577	21,358	9	Mansadevi Ropeway Gate	9,653	1,614	24,324
5	City Hospital	9,076	2,518	24,457	8	Valmiki Chowk	11,155	2,582	32,363
6	Rishikul	10,085	3,670	31,015	7	Haridwar Railway Station	10,827	14,235	40,936
7	Haridwar Railway Station	14,499	10,781	37,430	6	Rishikul	3,967	9,274	37,528
8	Valmiki Chowk	2,387	10,668	41,148	5	City Hospital	2,683	9,068	32,221
9	Mansadevi Ropeway Gate	1,390	9,302	32,867	4	Ram Nagar	541	4,002	25,836
10	Har-Ki-Pauri	1,020	15,613	24,955	3	Arya Nagar	562	11,496	22,375
11	Kharkhari	188	1,630	10,362	2	Jwalapur	285	7,376	11,441
12	Motichur	0	8,921	8,920	1	Sitapur	0	4,352	4,350
Total		64,513	64,514		Total		65,406	65,408	

BHEL Sector-5-City Hospital Corridor Daily Ridership for Poornima Day - Horizon Year 2031

BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	982	0	0	8	City Hospital	7,838	0	0
2	Radisson Blue	1,122	23	982	7	BHEL Sector-1	111	722	7,838
3	Shivalik Nagar	1,379	53	2,081	6	BHEL Sector-2	177	2,845	7,227
4	BHEL Sector-4	781	42	3,407	5	BHEL Factory	104	1,178	4,559
5	BHEL Factory	1,289	105	4,146	4	BHEL Sector-4	49	638	3,485
6	BHEL Sector-2	2,692	195	5,330	3	Shivalik Nagar	53	1,136	2,896
7	BHEL Sector-1	756	116	7,827	2	Radisson Blue	30	855	1,813
8	City Hospital	0	8,468	8,467	1	BHEL Sector-5	0	989	988
Total		9,001	9,001		Total		8,362	8,362	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	7,287	0	0	2	Laltaro Bridge	7,449	0	0
2	Laltaro Bridge	0	7,287	7,287	1	Valmiki Chowk	0	7,449	7,449
Total		7,287	7,287		Total		7,449	7,449	

Table 5-21: Peak Hour PRT Ridership Details for Normal Day – Option-III

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	110	0	0	12	Motichur	707	0	0
2	Jwalapur	277	9	110	11	Kharkhari	97	12	707
3	Arya Nagar	159	14	378	10	Har-Ki-Pauri	394	89	792
4	Ram Nagar	90	14	522	9	Mansadevi Ropeway Gate	244	81	1,096
5	City Hospital	721	146	599	8	Valmiki Chowk	256	93	1,259
6	Rishikul	273	165	1,175	7	Haridwar Railway Station	377	636	1,423
7	Haridwar Railway Station	648	409	1,283	6	Rishikul	167	256	1,164
8	Valmiki Chowk	85	282	1,521	5	City Hospital	174	627	1,075
9	Mansadevi Ropeway Gate	68	248	1,324	4	Ram Nagar	14	97	622
10	Har-Ki-Pauri	76	434	1,145	3	Arya Nagar	14	195	539
11	Kharkhari	14	88	787	2	Jwalapur	10	240	359
12	Motichur	0	713	713	1	Sitapur	0	128	128
	Total	2,521	2,522			Total	2,454	2,454	
BHEL Sector-5-City Hospital Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	171	0	0	8	City Hospital	718	0	0
2	Radisson Blue	190	9	171	7	BHEL Sector-1	15	71	718
3	Shivalik Nagar	80	6	352	6	BHEL Sector-2	20	185	662
4	BHEL Sector-4	70	5	426	5	BHEL Factory	16	122	497
5	BHEL Factory	143	17	491	4	BHEL Sector-4	6	52	390
6	BHEL Sector-2	200	21	617	3	Shivalik Nagar	7	64	344
7	BHEL Sector-1	77	17	796	2	Radisson Blue	12	132	286
8	City Hospital	0	856	856	1	BHEL Sector-5	0	167	167
	Total	931	931			Total	794	794	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	206	0	0	2	Laltaro Bridge	188	0	0
2	Laltaro Bridge	0	206	206	1	Valmiki Chowk	0	188	188
	Total	206	206			Total	188	188	
Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	195	0	0	12	Motichur	903	0	0
2	Jwalapur	452	19	195	11	Kharkhari	172	18	903
3	Arya Nagar	361	41	627	10	Har-Ki-Pauri	542	123	1,058
4	Ram Nagar	158	40	947	9	Mansadevi Ropeway Gate	328	107	1,476
5	City Hospital	719	232	1,064	8	Valmiki Chowk	382	112	1,697
6	Rishikul	400	292	1,551	7	Haridwar Railway Station	427	786	1,967
7	Haridwar Railway Station	797	440	1,659	6	Rishikul	314	375	1,608
8	Valmiki Chowk	103	378	2,016	5	City Hospital	250	699	1,547
9	Mansadevi Ropeway Gate	89	323	1,741	4	Ram Nagar	37	173	1,098
10	Har-Ki-Pauri	102	574	1,508	3	Arya Nagar	39	428	962
11	Kharkhari	19	163	1,036	2	Jwalapur	22	380	574
12	Motichur	0	892	892	1	Sitapur	0	216	216
Total		3,395	3,395		Total		3,416	3,416	

BHEL Sector-5-City Hospital Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	98	0	0	8	City Hospital	784	0	0
2	Radisson Blue	112	2	98	7	BHEL Sector-1	11	72	784
3	Shivalik Nagar	138	5	208	6	BHEL Sector-2	18	285	723
4	BHEL Sector-4	78	4	341	5	BHEL Factory	10	118	456
5	BHEL Factory	129	11	415	4	BHEL Sector-4	5	64	349
6	BHEL Sector-2	269	20	533	3	Shivalik Nagar	5	114	290
7	BHEL Sector-1	76	12	783	2	Radisson Blue	3	86	181
8	City Hospital	0	847	847	1	BHEL Sector-5	0	99	99
Total		900	900		Total		836	836	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	269	0	0	2	Laltaro Bridge	267	0	0
2	Laltaro Bridge	0	269	269	1	Valmiki Chowk	0	267	267
Total		269	269		Total		267	267	

Table 5-22: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-III

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	219	0	0	12	Motichur	707	0	0
2	Jwalapur	579	12	219	11	Kharkhari	97	12	707
3	Arya Nagar	394	21	786	10	Har-Ki-Pauri	1,305	89	792
4	Ram Nagar	209	20	1,159	9	Mansadevi Ropeway Gate	923	172	2,008
5	City Hospital	807	154	1,348	8	Valmiki Chowk	801	319	2,759
6	Rishikul	694	201	2,001	7	Haridwar Railway Station	837	1,708	3,242
7	Haridwar Railway Station	1,758	859	2,495	6	Rishikul	208	640	2,370
8	Valmiki Chowk	296	852	3,394	5	City Hospital	183	724	1,938
9	Mansadevi Ropeway Gate	147	885	2,838	4	Ram Nagar	21	219	1,397
10	Har-Ki-Pauri	76	1,389	2,100	3	Arya Nagar	21	501	1,200
11	Kharkhari	14	88	787	2	Jwalapur	14	487	720
12	Motichur	0	713	713	1	Sitapur	0	247	247
	Total	5,193	5,194			Total	5,117	5,118	

BHEL Sector-5-City Hospital Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	171	0	0	8	City Hospital	718	0	0
2	Radisson Blue	190	9	171	7	BHEL Sector-1	15	71	718
3	Shivalik Nagar	80	6	352	6	BHEL Sector-2	20	185	662
4	BHEL Sector-4	70	5	426	5	BHEL Factory	16	122	497
5	BHEL Factory	143	17	491	4	BHEL Sector-4	6	52	390
6	BHEL Sector-2	200	21	617	3	Shivalik Nagar	7	64	344
7	BHEL Sector-1	77	17	796	2	Radisson Blue	12	132	286
8	City Hospital	0	856	856	1	BHEL Sector-5	0	167	167
	Total	931	931			Total	794	794	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	644	0	0	2	Laltaro Bridge	604	0	0
2	Laltaro Bridge	0	644	644	1	Valmiki Chowk	0	604	604
	Total	644	644			Total	604	604	

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	409	0	0	12	Motichur	903	0	0
2	Jwalapur	890	25	409	11	Kharkhari	172	18	903
3	Arya Nagar	920	58	1,274	10	Har-Ki-Pauri	1,498	123	1,058
4	Ram Nagar	368	58	2,136	9	Mansadevi Ropeway Gate	965	161	2,432
5	City Hospital	908	252	2,446	8	Valmiki Chowk	1,116	258	3,236
6	Rishikul	1,009	367	3,102	7	Haridwar Railway Station	1,083	1,424	4,094
7	Haridwar Railway Station	1,450	1,078	3,743	6	Rishikul	397	927	3,753
8	Valmiki Chowk	239	1,067	4,115	5	City Hospital	268	907	3,222
9	Mansadevi Ropeway Gate	139	930	3,287	4	Ram Nagar	54	400	2,584
10	Har-Ki-Pauri	102	1,561	2,496	3	Arya Nagar	56	1,150	2,238
11	Kharkhari	19	163	1,036	2	Jwalapur	29	738	1,144
12	Motichur	0	892	892	1	Sitapur	0	435	435
Total		6,453	6,453		Total		6,541	6,541	

BHEL Sector-5-City Hospital Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

BHEL Sector-5 to City Hospital Direction					City Hospital to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	98	0	0	8	City Hospital	784	0	0
2	Radisson Blue	112	2	98	7	BHEL Sector-1	11	72	784
3	Shivalik Nagar	138	5	208	6	BHEL Sector-2	18	285	723
4	BHEL Sector-4	78	4	341	5	BHEL Factory	10	118	456
5	BHEL Factory	129	11	415	4	BHEL Sector-4	5	64	349
6	BHEL Sector-2	269	20	533	3	Shivalik Nagar	5	114	290
7	BHEL Sector-1	76	12	783	2	Radisson Blue	3	86	181
8	City Hospital	0	847	847	1	BHEL Sector-5	0	99	99
Total		900	900		Total		836	836	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	729	0	0	2	Laltaro Bridge	745	0	0
2	Laltaro Bridge	0	729	729	1	Valmiki Chowk	0	745	745
Total		729	729		Total		745	745	

5.5.4 Ridership Details for Option-IV

Tables below present the proposed daily and peak hour ridership estimates in option-IV for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-23: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-IV

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	46,540	1,522	2,04,915	4.40
2021	City Hospital - DAV School	4.36	13,307	675	35,401	2.66
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,524	181	2,291	0.65
2031	Sitapur - Motichur	11.03	72,100	2,260	3,18,770	4.42
2031	City Hospital - DAV School	4.36	21,548	1,116	56,479	2.62
2031	Valmiki Chowk - Laltaro Bridge	0.69	5,319	268	3,457	0.65

Table 5-24: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-IV

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	1,16,991	4,097	4,41,140	3.77
2021	City Hospital - DAV School	4.36	31,021	1,629	87,852	2.83
2021	Valmiki Chowk - Laltaro Bridge	0.69	13,213	681	8,588	0.65
2031	Sitapur - Motichur	11.03	1,59,181	5,410	6,71,228	4.22
2031	City Hospital - DAV School	4.36	47,558	2,532	1,33,774	2.81
2031	Valmiki Chowk - Laltaro Bridge	0.69	16,363	821	10,636	0.65

Table 5-25: Daily PRT Ridership Details for Normal Day – Option-IV

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,092	0	0	12	Motichur	6,900	0	0
2	Jwalapur	2,722	90	1,092	11	Kharkhari	1,015	116	6,900
3	Arya Nagar	1,524	143	3,724	10	Har-Ki-Pauri	4,033	893	7,799
4	Ram Nagar	869	136	5,105	9	Mansadevi Ropeway Gate	2,620	806	10,939
5	City Hospital	5,839	1,301	5,838	8	Valmiki Chowk	2,264	926	12,753
6	Rishikul	2,733	1,311	10,376	7	Haridwar Railway Station	2,914	6,364	14,091
7	Haridwar Railway Station	6,477	3,054	11,798	6	Rishikul	1,289	2,563	10,641
8	Valmiki Chowk	847	2,367	15,221	5	City Hospital	1,442	4,888	9,367
9	Mansadevi Ropeway Gate	679	2,796	13,701	4	Ram Nagar	142	894	5,921
10	Har-Ki-Pauri	755	4,685	11,584	3	Arya Nagar	141	1,824	5,169
11	Kharkhari	143	902	7,654	2	Jwalapur	100	2,335	3,486
12	Motichur	0	6,895	6,895	1	Sitapur	0	1,251	1,251
Total		23,680	23,680		Total		22,860	22,860	

City Hospital-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2021									
City Hospital to DAV School Direction					DAV School to City Hospital Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	5,542	0	0	6	DAV School	2,560	0	0
2	Kankhal Chowk	212	999	5,542	5	Jagjeetpur	961	87	2,560
3	Kankhal	91	1,018	4,755	4	Ganeshpuram	1,287	100	3,434
4	Ganeshpuram	113	966	3,828	3	Kankhal	1,348	83	4,621
5	Jagjeetpur	88	956	2,975	2	Kankhal Chowk	1,106	242	5,886
6	DAV School	0	2,106	2,107	1	City Hospital	0	6,749	6,750
Total		6,046	6,046		Total		7,262	7,262	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,812	0	0	2	Laltaro Bridge	1,712	0	0
2	Laltaro Bridge	0	1,812	1,812	1	Valmiki Chowk	0	1,712	1,712
Total		1,812	1,812		Total		1,712	1,712	

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,955	0	0	12	Motichur	9,150	0	0
2	Jwalapur	4,526	193	1,955	11	Kharkhari	1,855	175	9,150
3	Arya Nagar	3,642	414	6,288	10	Har-Ki-Pauri	6,102	1,234	10,830
4	Ram Nagar	1,619	404	9,516	9	Mansadevi Ropeway Gate	3,830	1,074	15,698
5	City Hospital	9,660	2,409	10,731	8	Valmiki Chowk	3,765	1,118	18,454
6	Rishikul	4,003	3,004	17,982	7	Haridwar Railway Station	4,195	7,856	21,101
7	Haridwar Railway Station	7,965	4,345	18,981	6	Rishikul	2,949	3,749	17,440
8	Valmiki Chowk	1,031	3,758	22,601	5	City Hospital	2,762	8,157	16,640
9	Mansadevi Ropeway Gate	894	4,081	19,874	4	Ram Nagar	373	1,805	11,245
10	Har-Ki-Pauri	1,020	6,999	16,687	3	Arya Nagar	394	4,349	9,813
11	Kharkhari	188	1,756	10,708	2	Jwalapur	222	3,856	5,858
12	Motichur	0	9,141	9,140	1	Sitapur	0	2,225	2,224
Total		36,503	36,504		Total		35,597	35,598	

City Hospital-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2031

City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	9,003	0	0	6	DAV School	4,198	0	0
2	Kankhal Chowk	295	1,946	9,003	5	Jagjeetpur	1,544	91	4,198
3	Kankhal	159	1,587	7,352	4	Ganeshpuram	1,848	116	5,651
4	Ganeshpuram	131	1,421	5,924	3	Kankhal	2,118	149	7,383
5	Jagjeetpur	86	1,424	4,634	2	Kankhal Chowk	2,165	360	9,352
6	DAV School	0	3,297	3,296	1	City Hospital	0	11,158	11,157
Total		9,674	9,674		Total		11,873	11,873	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
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Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,681	0	0	2	Laltaro Bridge	2,638	0	0
2	Laltaro Bridge	0	2,681	2,681	1	Valmiki Chowk	0	2,638	2,638
	Total	2,681	2,681			Total	2,638	2,638	

Table 5-26: Daily PRT Ridership Details for Poornima (Mela) Day – Option-IV

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,184	0	0	12	Motichur	6,900	0	0
2	Jwalapur	5,743	120	2,184	11	Kharkhari	1,281	116	6,900
3	Arya Nagar	3,877	211	7,807	10	Har-Ki-Pauri	15,782	893	8,065
4	Ram Nagar	2,058	203	11,473	9	Mansadevi Ropeway Gate	10,928	1,721	22,954
5	City Hospital	16,244	1,387	13,328	8	Valmiki Chowk	8,686	3,188	32,161
6	Rishikul	6,944	1,671	28,185	7	Haridwar Railway Station	9,672	17,081	37,659
7	Haridwar Railway Station	17,582	10,073	33,458	6	Rishikul	1,698	6,396	30,250
8	Valmiki Chowk	2,961	9,184	40,967	5	City Hospital	1,524	13,404	25,552
9	Mansadevi Ropeway Gate	1,473	11,266	34,744	4	Ram Nagar	211	2,107	13,672
10	Har-Ki-Pauri	755	17,874	24,951	3	Arya Nagar	210	4,881	11,776
11	Kharkhari	143	1,080	7,832	2	Jwalapur	136	4,803	7,105
12	Motichur	0	6,895	6,895	1	Sitapur	0	2,438	2,438
	Total	59,964	59,964			Total	57,028	57,028	
City Hospital-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	13,090	0	0	6	DAV School	7,016	0	0
2	Kankhal Chowk	341	2,122	13,090	5	Jagjeetpur	1,949	143	7,016
3	Kankhal	145	2,096	11,309	4	Ganeshpuram	3,061	162	8,822
4	Ganeshpuram	182	2,260	9,358	3	Kankhal	2,824	135	11,721
5	Jagjeetpur	144	1,936	7,280	2	Kankhal Chowk	2,269	388	14,410
6	DAV School	0	5,488	5,488	1	City Hospital	0	16,291	16,291
	Total	13,902	13,902			Total	17,119	17,119	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,806	0	0	2	Laltaro Bridge	6,407	0	0

2	Laltaro Bridge	0	6,806	6,806		1	Valmiki Chowk	0	6,407	6,407
Total		6,806	6,806			Total		6,407	6,407	

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	4,102	0	0	12	Motichur	9,150	0	0
2	Jwalapur	8,910	254	4,102	11	Kharkhari	2,240	175	9,150
3	Arya Nagar	9,231	580	12,758	10	Har-Ki-Pauri	19,642	1,234	11,215
4	Ram Nagar	3,712	577	21,409	9	Mansadevi Ropeway Gate	12,453	1,614	29,623
5	City Hospital	25,711	2,604	24,544	8	Valmiki Chowk	12,436	2,582	40,462
6	Rishikul	10,085	3,760	47,651	7	Haridwar Railway Station	13,915	14,235	50,316
7	Haridwar Railway Station	14,499	14,377	53,976	6	Rishikul	3,776	9,274	49,996
8	Valmiki Chowk	2,387	12,342	54,098	5	City Hospital	2,946	21,346	44,498
9	Mansadevi Ropeway Gate	1,390	13,251	44,143	4	Ram Nagar	541	4,076	26,098
10	Har-Ki-Pauri	1,020	22,336	32,282	3	Arya Nagar	562	11,563	22,563
11	Kharkhari	188	2,012	10,966	2	Jwalapur	285	7,432	11,562
12	Motichur	0	9,141	9,142	1	Sitapur	0	4,417	4,415
Total		81,235	81,234		Total		77,946	77,948	

City Hospital-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2031

City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	20,115	0	0	6	DAV School	10,956	0	0
2	Kankhal Chowk	454	3,740	20,115	5	Jagjeetpur	3,074	140	10,956
3	Kankhal	242	3,225	16,829	4	Ganeshpuram	4,070	176	13,890
4	Ganeshpuram	200	3,105	13,846	3	Kankhal	4,276	228	17,784
5	Jagjeetpur	132	2,817	10,941	2	Kankhal Chowk	4,037	554	21,832
6	DAV School	0	8,258	8,256	1	City Hospital	0	25,316	25,315
Total		21,143	21,143		Total		26,413	26,413	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	8,209	0	0	2	Laltaro Bridge	8,154	0	0
2	Laltaro Bridge	0	8,209	8,209	1	Valmiki Chowk	0	8,154	8,154
Total		8,209	8,209		Total		8,154	8,154	

Table 5-27: Peak Hour PRT Ridership Details for Normal Day – Option-IV

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	109	0	0	12	Motichur	690	0	0	
2	Jwalapur	272	9	109	11	Kharkhari	102	12	690	
3	Arya Nagar	152	14	372	10	Har-Ki-Pauri	403	89	780	
4	Ram Nagar	87	14	511	9	Mansadevi Ropeway Gate	262	81	1,094	
5	City Hospital	584	130	584	8	Valmiki Chowk	226	93	1,275	
6	Rishikul	273	131	1,038	7	Haridwar Railway Station	291	636	1,409	
7	Haridwar Railway Station	648	305	1,180	6	Rishikul	129	256	1,064	
8	Valmiki Chowk	85	237	1,522	5	City Hospital	144	489	937	
9	Mansadevi Ropeway Gate	68	280	1,370	4	Ram Nagar	14	89	592	
10	Har-Ki-Pauri	76	469	1,158	3	Arya Nagar	14	182	517	
11	Kharkhari	14	90	765	2	Jwalapur	10	234	349	
12	Motichur	0	690	690	1	Sitapur	0	125	125	
Total		2,368	2,369		Total		2,285	2,286		

City Hospital-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021										
City Hospital to DAV School Direction					DAV School to City Hospital Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	City Hospital	554	0	0	6	DAV School	256	0	0	
2	Kankhal Chowk	21	100	554	5	Jagjeetpur	96	9	256	
3	Kankhal	9	102	476	4	Ganeshpuram	129	10	343	
4	Ganeshpuram	11	97	383	3	Kankhal	135	8	462	
5	Jagjeetpur	9	96	298	2	Kankhal Chowk	111	24	589	
6	DAV School	0	211	211	1	City Hospital	0	675	675	
Total		604	604		Total		727	727		

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	181	0	0	2	Laltaro Bridge	171	0	0	
2	Laltaro Bridge	0	181	181	1	Valmiki Chowk	0	171	171	
Total		181	181		Total		171	171		

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	

1	Sitapur	196	0	0	12	Motichur	915	0	0
2	Jwalapur	453	19	196	11	Kharkhari	186	18	915
3	Arya Nagar	364	41	629	10	Har-Ki-Pauri	610	123	1,083
4	Ram Nagar	162	40	952	9	Mansadevi Ropeway Gate	383	107	1,570
5	City Hospital	966	241	1,073	8	Valmiki Chowk	377	112	1,845
6	Rishikul	400	300	1,798	7	Haridwar Railway Station	420	786	2,110
7	Haridwar Railway Station	797	435	1,898	6	Rishikul	295	375	1,744
8	Valmiki Chowk	103	376	2,260	5	City Hospital	276	816	1,664
9	Mansadevi Ropeway Gate	89	408	1,987	4	Ram Nagar	37	181	1,125
10	Har-Ki-Pauri	102	700	1,669	3	Arya Nagar	39	435	981
11	Kharkhari	19	176	1,071	2	Jwalapur	22	386	586
12	Motichur	0	914	914	1	Sitapur	0	223	222
Total		3,651	3,651		Total		3,560	3,560	

City Hospital-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	900	0	0	6	DAV School	420	0	0
2	Kankhal Chowk	30	195	900	5	Jagjeetpur	154	9	420
3	Kankhal	16	159	735	4	Ganeshpuram	185	12	565
4	Ganeshpuram	13	142	592	3	Kankhal	212	15	738
5	Jagjeetpur	9	142	463	2	Kankhal Chowk	217	36	935
6	DAV School	0	330	330	1	City Hospital	0	1,116	1,116
Total		968	968		Total		1,188	1,188	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	268	0	0	2	Laltaro Bridge	264	0	0
2	Laltaro Bridge	0	268	268	1	Valmiki Chowk	0	264	264
Total		268	268		Total		264	264	

Table 5-28: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-IV

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	218	0	0	12	Motichur	690	0	0
2	Jwalapur	574	12	218	11	Kharkhari	128	12	690
3	Arya Nagar	388	21	781	10	Har-Ki-Pauri	1,578	89	807
4	Ram Nagar	206	20	1,147	9	Mansadevi Ropeway Gate	1,093	172	2,295

5	City Hospital	1,624	139	1,333	8	Valmiki Chowk	869	319	3,216
6	Rishikul	694	167	2,819	7	Haridwar Railway Station	967	1,708	3,766
7	Haridwar Railway Station	1,758	1,007	3,346	6	Rishikul	170	640	3,025
8	Valmiki Chowk	296	918	4,097	5	City Hospital	152	1,340	2,555
9	Mansadevi Ropeway Gate	147	1,127	3,474	4	Ram Nagar	21	211	1,367
10	Har-Ki-Pauri	76	1,787	2,495	3	Arya Nagar	21	488	1,178
11	Kharkhari	14	108	783	2	Jwalapur	14	480	711
12	Motichur	0	690	690	1	Sitapur	0	244	244
Total		5,995	5,996		Total		5,703	5,703	

City Hospital-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,309	0	0	6	DAV School	702	0	0
2	Kankhal Chowk	34	212	1,309	5	Jagjeetpur	195	14	702
3	Kankhal	15	210	1,131	4	Ganeshpuram	306	16	882
4	Ganeshpuram	18	226	936	3	Kankhal	282	14	1,172
5	Jagjeetpur	14	194	728	2	Kankhal Chowk	227	39	1,441
6	DAV School	0	549	549	1	City Hospital	0	1,629	1,629
Total		1,390	1,390		Total		1,712	1,712	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	681	0	0	2	Laltaro Bridge	641	0	0
2	Laltaro Bridge	0	681	681	1	Valmiki Chowk	0	641	641
Total		681	681		Total		641	641	

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	410	0	0	12	Motichur	915	0	0
2	Jwalapur	891	25	410	11	Kharkhari	224	18	915
3	Arya Nagar	923	58	1,276	10	Har-Ki-Pauri	1,964	123	1,122
4	Ram Nagar	371	58	2,141	9	Mansadevi Ropeway Gate	1,245	161	2,962
5	City Hospital	2,571	260	2,454	8	Valmiki Chowk	1,244	258	4,046
6	Rishikul	1,009	376	4,765	7	Haridwar Railway Station	1,392	1,424	5,032
7	Haridwar Railway Station	1,450	1,438	5,398	6	Rishikul	378	927	5,000
8	Valmiki Chowk	239	1,234	5,410	5	City Hospital	295	2,135	4,450
9	Mansadevi Ropeway Gate	139	1,325	4,414	4	Ram Nagar	54	408	2,610

10	Har-Ki-Pauri	102	2,234	3,228		3	Arya Nagar	56	1,156	2,256
11	Kharkhari	19	201	1,097		2	Jwalapur	29	743	1,156
12	Motichur	0	914	914		1	Sitapur	0	442	442
	Total	8,124	8,124				Total	7,796	7,796	

City Hospital-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

City Hospital to DAV School Direction					DAV School to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	2,012	0	0	6	DAV School	1,096	0	0
2	Kankhal Chowk	45	374	2,012	5	Jagjeetpur	307	14	1,096
3	Kankhal	24	323	1,683	4	Ganeshpuram	407	18	1,389
4	Ganeshpuram	20	311	1,385	3	Kankhal	428	23	1,778
5	Jagjeetpur	13	282	1,094	2	Kankhal Chowk	404	55	2,183
6	DAV School	0	826	826	1	City Hospital	0	2,532	2,532
	Total	2,114	2,114			Total	2,642	2,642	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	821	0	0	2	Laltaro Bridge	815	0	0
2	Laltaro Bridge	0	821	821	1	Valmiki Chowk	0	815	815
	Total	821	821			Total	815	815	

5.5.5 Ridership Details for Option-V

Tables below present the proposed daily and peak hour ridership estimates in option-V for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-29: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-V

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	61,744	1,879	2,59,498	4.20
2021	BHEL Sector-5 - DAV School	12.00	33,287	993	1,38,921	4.17
2021	Valmiki Chowk - Laltaro Bridge	0.69	4,415	232	2,870	0.65
2031	Sitapur - Motichur	11.03	87,576	2,550	3,69,973	4.22
2031	BHEL Sector-5 - DAV School	12.00	42,368	1,297	1,55,345	3.67
2031	Valmiki Chowk - Laltaro Bridge	0.69	6,060	308	3,939	0.65

Table 5-30: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-V

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Motichur	11.03	1,32,195	4,453	4,95,723	3.75
2021	BHEL Sector-5 - DAV School	12.00	51,001	1,766	1,93,016	3.78
2021	Valmiki Chowk - Laltaro Bridge	0.69	14,104	731	9,168	0.65
2031	Sitapur - Motichur	11.03	1,74,657	5,845	7,22,430	4.14
2031	BHEL Sector-5 - DAV School	12.00	68,378	2,713	2,35,090	3.44
2031	Valmiki Chowk - Laltaro Bridge	0.69	17,104	861	11,118	0.65

Table 5-31: Daily PRT Ridership Details for Normal Day – Option-V

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,426	0	0	12	Motichur	7,485	0	0
2	Jwalapur	3,162	90	1,426	11	Kharkhari	1,181	116	7,485
3	Arya Nagar	1,805	143	4,498	10	Har-Ki-Pauri	5,035	893	8,550
4	Ram Nagar	1,106	136	6,160	9	Mansadevi Ropeway Gate	3,074	806	12,692
5	City Hospital	12,514	2,593	7,130	8	Valmiki Chowk	2,968	926	14,960
6	Rishikul	2,733	2,326	17,051	7	Haridwar Railway Station	4,679	6,364	17,002
7	Haridwar Railway Station	6,477	5,150	17,458	6	Rishikul	2,260	2,563	15,317
8	Valmiki Chowk	847	3,284	18,785	5	City Hospital	3,032	10,535	15,014
9	Mansadevi Ropeway Gate	679	3,351	16,348	4	Ram Nagar	142	1,183	7,511
10	Har-Ki-Pauri	755	5,855	13,676	3	Arya Nagar	141	2,193	6,470
11	Kharkhari	143	1,083	8,576	2	Jwalapur	100	2,825	4,418
12	Motichur	0	7,636	7,636	1	Sitapur	0	1,693	1,693
Total		31,647	31,647		Total		30,097	30,097	

BHEL Sector-5-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2021									
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	1,889	0	0	13	DAV School	2,797	0	0
2	Radisson Blue	2,037	85	1,889	12	Jagjeetpur	1,208	87	2,797
3	Shivalik Nagar	921	64	3,841	11	Ganeshpuram	1,531	100	3,918
4	BHEL Sector-4	785	45	4,698	10	Kankhal	1,546	83	5,349
5	BHEL Factory	1,651	170	5,438	9	Kankhal Chowk	1,546	242	6,812
6	BHEL Sector-2	2,493	214	6,919	8	City Hospital	7,182	6,749	8,116
7	BHEL Sector-1	905	172	9,198	7	BHEL Sector-1	148	847	8,549
8	City Hospital	5,542	8,560	9,931	6	BHEL Sector-2	199	2,395	7,850
9	Kankhal Chowk	212	1,410	6,913	5	BHEL Factory	156	1,428	5,654
10	Kankhal	91	1,224	5,715	4	BHEL Sector-4	57	589	4,382
11	Ganeshpuram	113	1,178	4,582	3	Shivalik Nagar	67	750	3,850

12	Jagjeetpur	88	1,231	3,517	2	Radisson Blue	121	1,417	3,167
13	DAV School	0	2,376	2,374	1	BHEL Sector-5	0	1,873	1,871
Total		16,727	16,727			Total	16,558	16,558	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,316	0	0	2	Laltaro Bridge	2,099	0	0
2	Laltaro Bridge	0	2,316	2,316	1	Valmiki Chowk	0	2,099	2,099
Total		2,316	2,316		Total		2,099	2,099	

Sitapur-Motichur Corridor Daily Ridership for Normal Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,462	0	0	12	Motichur	9,595	0	0
2	Jwalapur	5,124	193	2,462	11	Kharkhari	2,050	175	9,595
3	Arya Nagar	4,062	414	7,393	10	Har-Ki-Pauri	7,080	1,234	11,470
4	Ram Nagar	1,964	404	11,041	9	Mansadevi Ropeway Gate	4,227	1,074	17,316
5	City Hospital	15,609	4,279	12,601	8	Valmiki Chowk	4,382	1,118	20,469
6	Rishikul	4,003	4,477	23,931	7	Haridwar Railway Station	5,586	7,856	23,733
7	Haridwar Railway Station	7,965	5,923	23,457	6	Rishikul	4,498	3,749	21,463
8	Valmiki Chowk	1,031	4,489	25,499	5	City Hospital	4,846	13,730	22,212
9	Mansadevi Ropeway Gate	894	4,519	22,041	4	Ram Nagar	373	2,199	13,328
10	Har-Ki-Pauri	1,020	8,027	18,416	3	Arya Nagar	394	4,842	11,502
11	Kharkhari	188	1,958	11,409	2	Jwalapur	222	4,452	7,054
12	Motichur	0	9,641	9,639	1	Sitapur	0	2,826	2,824
Total		44,322	44,324		Total		43,253	43,255	

BHEL Sector-5-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2031

BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	1,132	0	0	13	DAV School	4,557	0	0
2	Radisson Blue	1,245	23	1,132	12	Jagjeetpur	1,805	91	4,557
3	Shivalik Nagar	1,536	53	2,354	11	Ganeshpuram	2,152	116	6,271
4	BHEL Sector-4	892	42	3,837	10	Kankhal	2,359	149	8,307
5	BHEL Factory	1,532	105	4,687	9	Kankhal Chowk	2,812	360	10,517
6	BHEL Sector-2	3,405	195	6,114	8	City Hospital	7,838	11,158	12,969
7	BHEL Sector-1	906	116	9,324	7	BHEL Sector-1	111	883	9,649
8	City Hospital	9,003	8,468	10,114	6	BHEL Sector-2	177	3,689	8,877
9	Kankhal Chowk	295	2,519	10,649	5	BHEL Factory	104	1,428	5,365
10	Kankhal	159	1,815	8,425	4	BHEL Sector-4	49	743	4,041
11	Ganeshpuram	131	1,671	6,769	3	Shivalik Nagar	53	1,299	3,347
12	Jagjeetpur	86	1,684	5,229	2	Radisson Blue	30	969	2,101
13	DAV School	0	3,630	3,631	1	BHEL Sector-5	0	1,161	1,162
Total		20,322	20,322		Total		22,047	22,047	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
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Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	3,083	0	0	2	Laltaro Bridge	2,977	0	0
2	Laltaro Bridge	0	3,083	3,083	1	Valmiki Chowk	0	2,977	2,977
	Total	3,083	3,083			Total	2,977	2,977	

Table 5-32: Daily PRT Ridership Details for Poornima (Mela) Day – Option-V

Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,519	0	0	12	Motichur	7,485	0	0
2	Jwalapur	6,183	120	2,519	11	Kharkhari	1,447	116	7,485
3	Arya Nagar	4,158	211	8,582	10	Har-Ki-Pauri	16,784	893	8,816
4	Ram Nagar	2,294	203	12,529	9	Mansadevi Ropeway Gate	11,383	1,721	24,707
5	City Hospital	22,920	2,680	14,620	8	Valmiki Chowk	9,390	3,188	34,369
6	Rishikul	6,944	2,687	34,860	7	Haridwar Railway Station	11,437	17,081	40,571
7	Haridwar Railway Station	17,582	12,169	39,117	6	Rishikul	2,668	6,396	34,927
8	Valmiki Chowk	2,961	10,101	44,530	5	City Hospital	3,113	19,050	31,199
9	Mansadevi Ropeway Gate	1,473	11,820	37,390	4	Ram Nagar	211	2,397	15,262
10	Har-Ki-Pauri	755	19,044	27,043	3	Arya Nagar	210	5,250	13,076
11	Kharkhari	143	1,261	8,754	2	Jwalapur	136	5,293	8,036
12	Motichur	0	7,636	7,636	1	Sitapur	0	2,879	2,879
	Total	67,932	67,932			Total	64,264	64,264	

BHEL Sector-5-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	1,889	0	0	13	DAV School	7,253	0	0
2	Radisson Blue	2,037	85	1,889	12	Jagjeetpur	2,196	143	7,253
3	Shivalik Nagar	921	64	3,841	11	Ganeshpuram	3,305	162	9,306
4	BHEL Sector-4	785	45	4,698	10	Kankhal	3,023	135	12,449
5	BHEL Factory	1,651	170	5,438	9	Kankhal Chowk	2,708	388	15,337
6	BHEL Sector-2	2,493	214	6,919	8	City Hospital	7,182	16,291	17,657
7	BHEL Sector-1	905	172	9,198	7	BHEL Sector-1	148	847	8,548
8	City Hospital	13,090	8,560	9,931	6	BHEL Sector-2	199	2,395	7,849
9	Kankhal Chowk	341	2,534	14,461	5	BHEL Factory	156	1,428	5,653
10	Kankhal	145	2,301	12,268	4	BHEL Sector-4	57	589	4,381
11	Ganeshpuram	182	2,472	10,112	3	Shivalik Nagar	67	750	3,849
12	Jagjeetpur	144	2,211	7,822	2	Radisson Blue	121	1,417	3,166
13	DAV School	0	5,757	5,755	1	BHEL Sector-5	0	1,873	1,870
	Total	24,583	24,583			Total	26,415	26,415	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	7,310	0	0	2	Laltaro Bridge	6,794	0	0	
2	Laltaro Bridge	0	7,310	7,310	1	Valmiki Chowk	0	6,794	6,794	
	Total	7,310	7,310			Total	6,794	6,794		
Sitapur-Motichur Corridor Daily Ridership for Poornima Day - Horizon Year 2031										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	4,609	0	0	12	Motichur	9,595	0	0	
2	Jwalapur	9,507	254	4,609	11	Kharkhari	2,435	175	9,595	
3	Arya Nagar	9,651	580	13,862	10	Har-Ki-Pauri	20,620	1,234	11,855	
4	Ram Nagar	4,057	577	22,933	9	Mansadevi Ropeway Gate	12,850	1,614	31,241	
5	City Hospital	31,660	4,474	26,413	8	Valmiki Chowk	13,054	2,582	42,477	
6	Rishikul	10,085	5,233	53,599	7	Haridwar Railway Station	15,307	14,235	52,949	
7	Haridwar Railway Station	14,499	15,955	58,451	6	Rishikul	5,325	9,274	54,021	
8	Valmiki Chowk	2,387	13,073	56,995	5	City Hospital	5,030	26,919	50,072	
9	Mansadevi Ropeway Gate	1,390	13,688	46,309	4	Ram Nagar	541	4,470	28,183	
10	Har-Ki-Pauri	1,020	23,364	34,011	3	Arya Nagar	562	12,056	24,254	
11	Kharkhari	188	2,214	11,667	2	Jwalapur	285	8,029	12,760	
12	Motichur	0	9,641	9,641	1	Sitapur	0	5,018	5,016	
	Total	89,053	89,053			Total	85,604	85,606		
BHEL Sector-5-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2031										
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	BHEL Sector-5	1,132	0	0	13	DAV School	11,314	0	0	
2	Radisson Blue	1,245	23	1,132	12	Jagjeetpur	3,334	140	11,314	
3	Shivalik Nagar	1,536	53	2,354	11	Ganeshpuram	4,374	176	14,508	
4	BHEL Sector-4	892	42	3,837	10	Kankhal	4,518	228	18,706	
5	BHEL Factory	1,532	105	4,687	9	Kankhal Chowk	4,684	554	22,996	
6	BHEL Sector-2	3,405	195	6,114	8	City Hospital	7,838	25,316	27,126	
7	BHEL Sector-1	906	116	9,324	7	BHEL Sector-1	111	883	9,648	
8	City Hospital	20,115	8,468	10,114	6	BHEL Sector-2	177	3,689	8,876	
9	Kankhal Chowk	454	4,313	21,761	5	BHEL Factory	104	1,428	5,364	
10	Kankhal	242	3,452	17,902	4	BHEL Sector-4	49	743	4,040	
11	Ganeshpuram	200	3,355	14,692	3	Shivalik Nagar	53	1,299	3,346	
12	Jagjeetpur	132	3,078	11,537	2	Radisson Blue	30	969	2,100	
13	DAV School	0	8,591	8,591	1	BHEL Sector-5	0	1,161	1,161	
	Total	31,791	31,791			Total	36,586	36,586		

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	8,611	0	0	2	Laltaro Bridge	8,493	0	0
2	Laltaro Bridge	0	8,611	8,611	1	Valmiki Chowk	0	8,493	8,493
Total		8,611	8,611		Total		8,493	8,493	

Table 5-33: Peak Hour PRT Ridership Details for Normal Day – Option-V

Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	143	0	0	12	Motichur	749	0	0
2	Jwalapur	316	9	143	11	Kharkhari	118	12	749
3	Arya Nagar	181	14	450	10	Har-Ki-Pauri	504	89	855
4	Ram Nagar	111	14	616	9	Mansadevi Ropeway Gate	307	81	1,269
5	City Hospital	1,251	259	713	8	Valmiki Chowk	297	93	1,496
6	Rishikul	273	233	1,705	7	Haridwar Railway Station	468	636	1,700
7	Haridwar Railway Station	648	515	1,746	6	Rishikul	226	256	1,532
8	Valmiki Chowk	85	328	1,879	5	City Hospital	303	1,054	1,501
9	Mansadevi Ropeway Gate	68	335	1,635	4	Ram Nagar	14	118	751
10	Har-Ki-Pauri	76	586	1,368	3	Arya Nagar	14	219	647
11	Kharkhari	14	108	858	2	Jwalapur	10	283	442
12	Motichur	0	764	764	1	Sitapur	0	169	169
Total		3,166	3,165		Total		3,010	3,010	

BHEL Sector-5-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	189	0	0	13	DAV School	280	0	0
2	Radisson Blue	204	9	189	12	Jagjeetpur	121	9	280
3	Shivalik Nagar	92	6	384	11	Ganeshpuram	153	10	392
4	BHEL Sector-4	79	5	470	10	Kankhal	155	8	535
5	BHEL Factory	165	17	544	9	Kankhal Chowk	155	24	681
6	BHEL Sector-2	249	21	692	8	City Hospital	718	675	812
7	BHEL Sector-1	91	17	920	7	BHEL Sector-1	15	85	855
8	City Hospital	554	856	993	6	BHEL Sector-2	20	240	785
9	Kankhal Chowk	21	141	691	5	BHEL Factory	16	143	565
10	Kankhal	9	122	572	4	BHEL Sector-4	6	59	438

11	Ganeshpuram	11	118	458		3	Shivalik Nagar	7	75	385
12	Jagjeetpur	9	123	352		2	Radisson Blue	12	142	317
13	DAV School	0	238	237		1	BHEL Sector-5	0	187	187
	Total	1,673	1,673				Total	1,658	1,658	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	232	0	0		2	Laltaro Bridge	210	0	0
2	Laltaro Bridge	0	232	232		1	Valmiki Chowk	0	210	210
	Total	232	232				Total	210	210	
Sitapur-Motichur Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	246	0	0		12	Motichur	960	0	0
2	Jwalapur	512	19	246		11	Kharkhari	205	18	960
3	Arya Nagar	406	41	739		10	Har-Ki-Pauri	708	123	1,147
4	Ram Nagar	196	40	1,104		9	Mansadevi Ropeway Gate	423	107	1,732
5	City Hospital	1,561	428	1,260		8	Valmiki Chowk	438	112	2,047
6	Rishikul	400	448	2,393		7	Haridwar Railway Station	559	786	2,373
7	Haridwar Railway Station	797	592	2,346		6	Rishikul	450	375	2,146
8	Valmiki Chowk	103	449	2,550		5	City Hospital	485	1,373	2,221
9	Mansadevi Ropeway Gate	89	452	2,204		4	Ram Nagar	37	220	1,333
10	Har-Ki-Pauri	102	803	1,842		3	Arya Nagar	39	484	1,150
11	Kharkhari	19	196	1,141		2	Jwalapur	22	445	705
12	Motichur	0	964	964		1	Sitapur	0	283	282
	Total	4,431	4,431				Total	4,326	4,326	
BHEL Sector-5-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	113	0	0		13	DAV School	456	0	0
2	Radisson Blue	125	2	113		12	Jagjeetpur	181	9	456
3	Shivalik Nagar	154	5	235		11	Ganeshpuram	215	12	627
4	BHEL Sector-4	89	4	384		10	Kankhal	236	15	831
5	BHEL Factory	153	11	469		9	Kankhal Chowk	281	36	1,052
6	BHEL Sector-2	341	20	611		8	City Hospital	784	1,116	1,297
7	BHEL Sector-1	91	12	932		7	BHEL Sector-1	11	88	965
8	City Hospital	900	847	1,011		6	BHEL Sector-2	18	369	888
9	Kankhal Chowk	30	252	1,065		5	BHEL Factory	10	143	537
10	Kankhal	16	182	843		4	BHEL Sector-4	5	74	404

11	Ganeshpuram	13	167	677		3	Shivalik Nagar	5	130	335
12	Jagjeetpur	9	168	523		2	Radisson Blue	3	97	210
13	DAV School	0	363	363		1	BHEL Sector-5	0	116	116
	Total	2,034	2,034				Total	2,205	2,205	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	308	0	0		2	Laltaro Bridge	298	0	0
2	Laltaro Bridge	0	308	308		1	Valmiki Chowk	0	298	298
	Total	308	308				Total	298	298	

Table 5-34: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-V

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
Sitapur to Motichur Direction					Motichur to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	252	0	0		12	Motichur	749	0	0
2	Jwalapur	618	12	252		11	Kharkhari	145	12	749
3	Arya Nagar	416	21	858		10	Har-Ki-Pauri	1,678	89	882
4	Ram Nagar	229	20	1,253		9	Mansadevi Ropeway Gate	1,138	172	2,471
5	City Hospital	2,292	268	1,462		8	Valmiki Chowk	939	319	3,437
6	Rishikul	694	269	3,486		7	Haridwar Railway Station	1,144	1,708	4,057
7	Haridwar Railway Station	1,758	1,217	3,912		6	Rishikul	267	640	3,493
8	Valmiki Chowk	296	1,010	4,453		5	City Hospital	311	1,905	3,120
9	Mansadevi Ropeway Gate	147	1,182	3,739		4	Ram Nagar	21	240	1,526
10	Har-Ki-Pauri	76	1,904	2,704		3	Arya Nagar	21	525	1,308
11	Kharkhari	14	126	875		2	Jwalapur	14	529	804
12	Motichur	0	764	764		1	Sitapur	0	288	288
	Total	6,792	6,793				Total	6,427	6,427	
BHEL Sector-5-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load		Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	189	0	0		13	DAV School	725	0	0
2	Radisson Blue	204	9	189		12	Jagjeetpur	220	14	725
3	Shivalik Nagar	92	6	384		11	Ganeshpuram	331	16	931
4	BHEL Sector-4	79	5	470		10	Kankhal	302	14	1,245
5	BHEL Factory	165	17	544		9	Kankhal Chowk	271	39	1,534

6	BHEL Sector-2	249	21	692	8	City Hospital	718	1,629	1,766
7	BHEL Sector-1	91	17	920	7	BHEL Sector-1	15	85	855
8	City Hospital	1,309	856	993	6	BHEL Sector-2	20	240	785
9	Kankhal Chowk	34	253	1,446	5	BHEL Factory	16	143	565
10	Kankhal	15	230	1,227	4	BHEL Sector-4	6	59	438
11	Ganeshpuram	18	247	1,011	3	Shivalik Nagar	7	75	385
12	Jagjeetpur	14	221	782	2	Radisson Blue	12	142	317
13	DAV School	0	576	576	1	BHEL Sector-5	0	187	187
Total		2,459	2,459		Total		2,643	2,643	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	731	0	0	2	Laltaro Bridge	679	0	0
2	Laltaro Bridge	0	731	731	1	Valmiki Chowk	0	679	679
Total		731	731		Total		679	679	

Sitapur-Motichur Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Sitapur to Motichur Direction					Motichur to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	461	0	0	12	Motichur	960	0	0
2	Jwalapur	951	25	461	11	Kharkhari	244	18	960
3	Arya Nagar	965	58	1,386	10	Har-Ki-Pauri	2,062	123	1,186
4	Ram Nagar	406	58	2,293	9	Mansadevi Ropeway Gate	1,285	161	3,124
5	City Hospital	3,166	447	2,641	8	Valmiki Chowk	1,305	258	4,248
6	Rishikul	1,009	523	5,360	7	Haridwar Railway Station	1,531	1,424	5,295
7	Haridwar Railway Station	1,450	1,596	5,845	6	Rishikul	533	927	5,402
8	Valmiki Chowk	239	1,307	5,700	5	City Hospital	503	2,692	5,007
9	Mansadevi Ropeway Gate	139	1,369	4,631	4	Ram Nagar	54	447	2,818
10	Har-Ki-Pauri	102	2,336	3,401	3	Arya Nagar	56	1,206	2,425
11	Kharkhari	19	221	1,167	2	Jwalapur	29	803	1,276
12	Motichur	0	964	964	1	Sitapur	0	502	502
Total		8,907	8,907		Total		8,562	8,562	

BHEL Sector-5-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

BHEL Sector-5 to DAV School Direction					DAV School to BHEL Sector-5 Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	BHEL Sector-5	113	0	0	13	DAV School	1,131	0	0
2	Radisson Blue	125	2	113	12	Jagjeetpur	333	14	1,131
3	Shivalik Nagar	154	5	235	11	Ganeshpuram	437	18	1,451
4	BHEL Sector-4	89	4	384	10	Kankhal	452	23	1,871

5	BHEL Factory	153	11	469	9	Kankhal Chowk	468	55	2,300
6	BHEL Sector-2	341	20	611	8	City Hospital	784	2,532	2,713
7	BHEL Sector-1	91	12	932	7	BHEL Sector-1	11	88	965
8	City Hospital	2,012	847	1,011	6	BHEL Sector-2	18	369	888
9	Kankhal Chowk	45	431	2,176	5	BHEL Factory	10	143	536
10	Kankhal	24	345	1,790	4	BHEL Sector-4	5	74	404
11	Ganeshpuram	20	336	1,469	3	Shivalik Nagar	5	130	335
12	Jagjeetpur	13	308	1,154	2	Radisson Blue	3	97	210
13	DAV School	0	859	859	1	BHEL Sector-5	0	116	116
Total		3,180	3,180			Total	3,657	3,657	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	861	0	0	2	Laltaro Bridge	849	0	0	
2	Laltaro Bridge	0	861	861	1	Valmiki Chowk	0	849	849	
Total		861	861		Total		849	849		

5.5.6 Ridership Details for Option-VI

Tables below present the proposed daily and peak hour ridership estimates in option-VI for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-35: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-VI

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Bharat Mata Temple	14.55	48,570	1,604	2,47,961	5.11
2021	City Hospital - Daksh Temple	3.11	9,668	523	14,013	1.45
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,550	182	2,307	0.65
2031	Sitapur - Bharat Mata Temple	14.55	74,768	2,409	3,88,000	5.19
2031	City Hospital - Daksh Temple	3.11	15,910	856	23,008	1.45
2031	Valmiki Chowk - Laltaro Bridge	0.69	5,334	268	3,467	0.65

Table 5-36: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-VI

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Bharat Mata Temple	14.55	1,09,672	3,760	4,47,325	4.08
2021	City Hospital - Daksh Temple	3.11	17,576	955	24,473	1.39
2021	Valmiki Chowk - Laltaro Bridge	0.69	12,825	661	8,336	0.65
2031	Sitapur - Bharat Mata Temple	14.55	1,47,705	4,917	6,84,644	4.64
2031	City Hospital - Daksh Temple	3.11	27,278	1,467	37,467	1.37
2031	Valmiki Chowk - Laltaro Bridge	0.69	15,713	787	10,213	0.65

Table 5-37: Daily PRT Ridership Details for Normal Day – Option-VI

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,059	0	0	14	Bharat Mata Temple	568	0	0
2	Jwalapur	2,714	90	1,059	13	Shantikunj	2,691	57	568
3	Arya Nagar	1,590	143	3,683	12	Motichur	6,791	375	3,202
4	Ram Nagar	1,050	136	5,130	11	Kharkhari	951	213	9,618
5	City Hospital	4,837	900	6,044	10	Har-Ki-Pauri	3,447	1,214	10,356
6	Rishikul	2,931	1,154	9,981	9	Mansadevi Ropeway Gate	2,143	981	12,589
7	Haridwar Railway Station	6,921	2,636	11,758	8	Valmiki Chowk	2,132	1,087	13,751
8	Valmiki Chowk	1,010	2,223	16,043	7	Haridwar Railway Station	2,513	6,756	14,796
9	Mansadevi Ropeway Gate	869	2,113	14,830	6	Rishikul	1,123	2,731	10,553
10	Har-Ki-Pauri	1,096	3,854	13,586	5	City Hospital	1,034	3,941	8,945
11	Kharkhari	267	847	10,828	4	Ram Nagar	142	1,037	6,038
12	Motichur	400	6,784	10,248	3	Arya Nagar	141	1,856	5,143
13	Shantikunj	50	3,348	3,864	2	Jwalapur	100	2,311	3,428
14	Bharat Mata Temple	0	566	566	1	Sitapur	0	1,217	1,217
	Total	24,794	24,794			Total	23,776	23,776	

City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2021									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	4,087	0	0	5	Daksh Temple	356	0	0
2	Kankhal Chowk	130	1,047	4,087	4	Ganeshpuram	1,382	12	356
3	Kankhal	19	1,809	3,170	3	Kankhal	2,516	15	1,726
4	Ganeshpuram	17	1,043	1,380	2	Kankhal Chowk	1,161	159	4,227
5	Daksh Temple	0	354	354	1	City Hospital	0	5,229	5,229
	Total	4,253	4,253			Total	5,415	5,415	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,821	0	0	2	Laltaro Bridge	1,729	0	0
2	Laltaro Bridge	0	1,821	1,821	1	Valmiki Chowk	0	1,729	1,729
	Total	1,821	1,821			Total	1,729	1,729	

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2031									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,933	0	0	14	Bharat Mata Temple	820	0	0
2	Jwalapur	4,518	193	1,933	13	Shantikunj	4,005	85	820
3	Arya Nagar	3,824	414	6,258	12	Motichur	8,983	414	4,740
4	Ram Nagar	2,123	404	9,668	11	Kharkhari	1,760	320	13,309

5	City Hospital	8,127	1,715	11,387	10	Har-Ki-Pauri	5,226	1,647	14,749
6	Rishikul	4,326	2,670	17,799	9	Mansadevi Ropeway Gate	3,131	1,282	18,328
7	Haridwar Railway Station	8,414	3,784	19,455	8	Valmiki Chowk	3,593	1,326	20,177
8	Valmiki Chowk	1,238	3,544	24,085	7	Haridwar Railway Station	3,696	8,261	22,444
9	Mansadevi Ropeway Gate	1,126	3,073	21,779	6	Rishikul	2,634	4,050	17,879
10	Har-Ki-Pauri	1,461	5,746	19,832	5	City Hospital	1,970	6,855	16,463
11	Kharkhari	355	1,664	15,547	4	Ram Nagar	373	2,173	11,578
12	Motichur	439	8,944	14,238	3	Arya Nagar	394	4,411	9,778
13	Shantikunj	78	4,974	5,733	2	Jwalapur	222	3,810	5,761
14	Bharat Mata Temple	0	837	837	1	Sitapur	0	2,173	2,173
Total		37,962	37,962			Total	36,807	36,807	

City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2031

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	6,764	0	0	5	Daksh Temple	785	0	0
2	Kankhal Chowk	186	2,036	6,764	4	Ganeshpuram	1,957	23	785
3	Kankhal	58	2,771	4,914	3	Kankhal	3,871	57	2,719
4	Ganeshpuram	25	1,507	2,201	2	Kankhal Chowk	2,265	243	6,533
5	Daksh Temple	0	718	719	1	City Hospital	0	8,554	8,555
Total		7,033	7,033			Total	8,878	8,878	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	2,678	0	0	2	Laltaro Bridge	2,656	0	0
2	Laltaro Bridge	0	2,678	2,678	1	Valmiki Chowk	0	2,656	2,656
Total		2,678	2,678			Total	2,656	2,656	

Table 5-38: Daily PRT Ridership Details for Poornima (Mela) Day – Option-VI

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2021

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,152	0	0	14	Bharat Mata Temple	568	0	0
2	Jwalapur	5,735	120	2,152	13	Shantikunj	2,691	57	568
3	Arya Nagar	3,944	211	7,767	12	Motichur	6,791	375	3,202
4	Ram Nagar	2,239	203	11,500	11	Kharkhari	1,159	213	9,618
5	City Hospital	10,021	987	13,536	10	Har-Ki-Pauri	13,680	1,214	10,564
6	Rishikul	7,141	1,514	22,570	9	Mansadevi Ropeway Gate	9,261	1,895	23,030
7	Haridwar Railway Station	18,026	8,622	28,197	8	Valmiki Chowk	8,184	3,349	30,396
8	Valmiki Chowk	3,124	8,658	37,601	7	Haridwar Railway Station	8,276	17,473	35,231
9	Mansadevi Ropeway Gate	1,664	8,913	32,067	6	Rishikul	1,532	6,565	26,034
10	Har-Ki-Pauri	1,096	14,946	24,818	5	City Hospital	1,115	8,329	21,001

11	Kharkhari	267	985	10,968	4	Ram Nagar	211	2,250	13,787
12	Motichur	400	6,784	10,250	3	Arya Nagar	210	4,912	11,748
13	Shantikunj	50	3,348	3,866	2	Jwalapur	136	4,779	7,046
14	Bharat Mata Temple	0	566	568	1	Sitapur	0	2,403	2,403
Total		55,859	55,857			Total	53,814	53,814	

City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2021

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	7,507	0	0	5	Daksh Temple	356	0	0
2	Kankhal Chowk	200	2,170	7,507	4	Ganeshpuram	3,156	12	356
3	Kankhal	22	2,886	5,537	3	Kankhal	3,993	19	3,500
4	Ganeshpuram	17	2,337	2,673	2	Kankhal Chowk	2,324	249	7,474
5	Daksh Temple	0	354	353	1	City Hospital	0	9,550	9,549
Total		7,746	7,746			Total	9,829	9,829	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,605	0	0	2	Laltaro Bridge	6,220	0	0
2	Laltaro Bridge	0	6,605	6,605	1	Valmiki Chowk	0	6,220	6,220
Total		6,605	6,605			Total	6,220	6,220	

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	4,080	0	0	14	Bharat Mata Temple	820	0	0
2	Jwalapur	8,901	254	4,080	13	Shantikunj	4,005	85	820
3	Arya Nagar	9,413	580	12,727	12	Motichur	8,983	414	4,740
4	Ram Nagar	4,216	577	21,560	11	Kharkhari	2,054	320	13,309
5	City Hospital	16,135	1,910	25,199	10	Har-Ki-Pauri	16,508	1,647	15,043
6	Rishikul	10,408	3,425	39,424	9	Mansadevi Ropeway Gate	10,000	1,822	29,904
7	Haridwar Railway Station	14,948	12,187	46,407	8	Valmiki Chowk	11,723	2,790	38,082
8	Valmiki Chowk	2,594	11,463	49,168	7	Haridwar Railway Station	11,960	14,639	47,015
9	Mansadevi Ropeway Gate	1,622	9,738	40,299	6	Rishikul	3,462	9,575	44,336
10	Har-Ki-Pauri	1,461	17,899	32,183	5	City Hospital	2,154	13,942	38,223
11	Kharkhari	355	1,860	15,745	4	Ram Nagar	541	4,444	26,435
12	Motichur	439	8,944	14,240	3	Arya Nagar	562	11,625	22,532
13	Shantikunj	78	4,974	5,735	2	Jwalapur	285	7,387	11,469
14	Bharat Mata Temple	0	837	839	1	Sitapur	0	4,365	4,367

Total		74,650	74,648			Total		73,057	73,055
City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	11,774	0	0	5	Daksh Temple	785	0	0
2	Kankhal Chowk	273	3,829	11,774	4	Ganeshpuram	4,179	23	785
3	Kankhal	76	4,408	8,218	3	Kankhal	6,030	76	4,941
4	Ganeshpuram	25	3,191	3,886	2	Kankhal Chowk	4,138	361	10,895
5	Daksh Temple	0	718	720	1	City Hospital	0	14,670	14,672
Total		12,148	12,148		Total		15,132	15,132	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	7,839	0	0	2	Laltaro Bridge	7,874	0	0
2	Laltaro Bridge	0	7,839	7,839	1	Valmiki Chowk	0	7,874	7,874
Total		7,839	7,839		Total		7,874	7,874	

Table 5-39: Peak Hour PRT Ridership Details for Normal Day – Option-VI

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	106	0	0	14	Bharat Mata Temple	57	0	0
2	Jwalapur	271	9	106	13	Shantikunj	269	6	57
3	Arya Nagar	159	14	368	12	Motichur	679	38	320
4	Ram Nagar	105	14	513	11	Kharkhari	95	21	962
5	City Hospital	484	90	604	10	Har-Ki-Pauri	345	121	1,036
6	Rishikul	293	115	998	9	Mansadevi Ropeway Gate	214	98	1,259
7	Haridwar Railway Station	692	264	1,176	8	Valmiki Chowk	213	109	1,375
8	Valmiki Chowk	101	222	1,604	7	Haridwar Railway Station	251	676	1,480
9	Mansadevi Ropeway Gate	87	211	1,483	6	Rishikul	112	273	1,055
10	Har-Ki-Pauri	110	385	1,359	5	City Hospital	103	394	895
11	Kharkhari	27	85	1,083	4	Ram Nagar	14	104	604
12	Motichur	40	678	1,025	3	Arya Nagar	14	186	514
13	Shantikunj	5	335	386	2	Jwalapur	10	231	343
14	Bharat Mata Temple	0	57	57	1	Sitapur	0	122	122
Total		2,480	2,479		Total		2,376	2,379	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	409	0	0	5	Daksh Temple	36	0	0
2	Kankhal Chowk	13	105	409	4	Ganeshpuram	138	1	36
3	Kankhal	2	181	317	3	Kankhal	252	2	173
4	Ganeshpuram	2	104	138	2	Kankhal Chowk	116	16	423
5	Daksh Temple	0	35	35	1	City Hospital	0	523	523
Total		426	426		Total		542	542	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	182	0	0	2	Laltaro Bridge	173	0	0
2	Laltaro Bridge	0	182	182	1	Valmiki Chowk	0	173	173
Total		182	182		Total		173	173	
Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	193	0	0	14	Bharat Mata Temple	82	0	0
2	Jwalapur	452	19	193	13	Shantikunj	401	9	82
3	Arya Nagar	382	41	626	12	Motichur	898	41	474
4	Ram Nagar	212	40	967	11	Kharkhari	176	32	1,331
5	City Hospital	813	172	1,139	10	Har-Ki-Pauri	523	165	1,475
6	Rishikul	433	267	1,780	9	Mansadevi Ropeway Gate	313	128	1,833
7	Haridwar Railway Station	841	378	1,946	8	Valmiki Chowk	359	133	2,018
8	Valmiki Chowk	124	354	2,409	7	Haridwar Railway Station	370	826	2,244
9	Mansadevi Ropeway Gate	113	307	2,178	6	Rishikul	263	405	1,788
10	Har-Ki-Pauri	146	575	1,983	5	City Hospital	197	686	1,646
11	Kharkhari	36	166	1,555	4	Ram Nagar	37	217	1,158
12	Motichur	44	894	1,424	3	Arya Nagar	39	441	978
13	Shantikunj	8	497	573	2	Jwalapur	22	381	576
14	Bharat Mata Temple	0	84	84	1	Sitapur	0	217	217
Total		3,797	3,797		Total		3,680	3,680	
City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	676	0	0	5	Daksh Temple	79	0	0
2	Kankhal Chowk	19	204	676	4	Ganeshpuram	196	2	79
3	Kankhal	6	277	491	3	Kankhal	387	6	272
4	Ganeshpuram	3	151	220	2	Kankhal Chowk	227	24	653
5	Daksh Temple	0	72	72	1	City Hospital	0	855	856
Total		704	704		Total		889	889	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	268	0	0	2	Laltaro Bridge	266	0	0	
2	Laltaro Bridge	0	268	268	1	Valmiki Chowk	0	266	266	
Total		268	268		Total		266	266		

Table 5-40: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-VI

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	215	0	0	14	Bharat Mata Temple	57	0	0	
2	Jwalapur	574	12	215	13	Shantikunj	269	6	57	
3	Arya Nagar	394	21	777	12	Motichur	679	38	320	
4	Ram Nagar	224	20	1,150	11	Kharkhari	116	21	962	
5	City Hospital	1,002	99	1,354	10	Har-Ki-Pauri	1,368	121	1,056	
6	Rishikul	714	151	2,257	9	Mansadevi Ropeway Gate	926	190	2,303	
7	Haridwar Railway Station	1,803	862	2,820	8	Valmiki Chowk	818	335	3,040	
8	Valmiki Chowk	312	866	3,760	7	Haridwar Railway Station	828	1,747	3,523	
9	Mansadevi Ropeway Gate	166	891	3,207	6	Rishikul	153	657	2,603	
10	Har-Ki-Pauri	110	1,495	2,482	5	City Hospital	112	833	2,100	
11	Kharkhari	27	99	1,097	4	Ram Nagar	21	225	1,379	
12	Motichur	40	678	1,025	3	Arya Nagar	21	491	1,175	
13	Shantikunj	5	335	387	2	Jwalapur	14	478	705	
14	Bharat Mata Temple	0	57	57	1	Sitapur	0	240	240	
Total		5,586	5,586		Total		5,382	5,382		

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021										
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction					

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	751	0	0	5	Daksh Temple	36	0	0
2	Kankhal Chowk	20	217	751	4	Ganeshpuram	316	1	36
3	Kankhal	2	289	554	3	Kankhal	399	2	350
4	Ganeshpuram	2	234	267	2	Kankhal Chowk	232	25	747
5	Daksh Temple	0	35	35	1	City Hospital	0	955	955
Total		775	775		Total		983	983	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	661	0	0	2	Laltaro Bridge	622	0	0
2	Laltaro Bridge	0	661	661	1	Valmiki Chowk	0	622	622
Total		661	661		Total		622	622	
Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	408	0	0	14	Bharat Mata Temple	82	0	0
2	Jwalapur	890	25	408	13	Shantikunj	401	9	82
3	Arya Nagar	941	58	1,273	12	Motichur	898	41	474
4	Ram Nagar	422	58	2,156	11	Kharkhari	205	32	1,331
5	City Hospital	1,614	191	2,520	10	Har-Ki-Pauri	1,651	165	1,504
6	Rishikul	1,041	343	3,942	9	Mansadevi Ropeway Gate	1,000	182	2,990
7	Haridwar Railway Station	1,495	1,219	4,641	8	Valmiki Chowk	1,172	279	3,808
8	Valmiki Chowk	259	1,146	4,917	7	Haridwar Railway Station	1,196	1,464	4,702
9	Mansadevi Ropeway Gate	162	974	4,030	6	Rishikul	346	958	4,434
10	Har-Ki-Pauri	146	1,790	3,218	5	City Hospital	215	1,394	3,822
11	Kharkhari	36	186	1,575	4	Ram Nagar	54	444	2,644
12	Motichur	44	894	1,424	3	Arya Nagar	56	1,163	2,253
13	Shantikunj	8	497	574	2	Jwalapur	29	739	1,147
14	Bharat Mata Temple	0	84	84	1	Sitapur	0	437	437
Total		7,466	7,466		Total		7,305	7,305	
City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,177	0	0	5	Daksh Temple	79	0	0
2	Kankhal Chowk	27	383	1,177	4	Ganeshpuram	418	2	79

3	Kankhal	8	441	822		3	Kankhal	603	8	494
4	Ganeshpuram	3	319	389		2	Kankhal Chowk	414	36	1,090
5	Daksh Temple	0	72	72		1	City Hospital	0	1,467	1,467
Total		1,215	1,215				Total	1,514	1,514	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	784	0	0	2	Laltaro Bridge	787	0	0	
2	Laltaro Bridge	0	784	784	1	Valmiki Chowk	0	787	787	
Total		784	784			Total	787	787		

5.5.7 Ridership Details for Option-VII

Tables below present the proposed daily and peak hour ridership estimates in option-VII for the horizon years 2021 and 2031. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-41: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-VII

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Bharat Mata Temple	14.55	54,608	1,819	2,74,572	5.03
2021	City Hospital - Daksh Temple	3.11	16,295	858	26,877	1.65
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,723	191	2,420	0.65
2021	Ganeshpuram - DAV School	2.38	7,015	366	13,336	1.90
2031	Sitapur - Bharat Mata Temple	14.55	84,449	2,739	4,29,241	5.08
2031	City Hospital - Daksh Temple	3.11	26,671	1,412	43,809	1.64
2031	Valmiki Chowk - Laltaro Bridge	0.69	5,612	283	3,648	0.65
2031	Ganeshpuram - DAV School	2.38	11,185	603	21,422	1.92

Table 5-42: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-VII

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2021	Sitapur - Bharat Mata Temple	14.55	1,25,059	4,393	5,12,459	4.10
2021	City Hospital - Daksh Temple	3.11	33,766	1,812	56,012	1.66
2021	Valmiki Chowk - Laltaro Bridge	0.69	13,412	690	8,718	0.65
2021	Ganeshpuram - DAV School	2.38	16,821	905	33,227	1.98
2031	Sitapur - Bharat Mata Temple	14.55	1,71,530	5,888	7,84,212	4.57
2031	City Hospital - Daksh Temple	3.11	52,457	2,828	86,334	1.65
2031	Valmiki Chowk - Laltaro Bridge	0.69	16,656	836	10,826	0.65
2031	Ganeshpuram - DAV School	2.38	25,827	1,427	51,140	1.98

Table 5-43: Daily PRT Ridership Details for Normal Day – Option-VII

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	1,162	0	0	14	Bharat Mata Temple	610	0	0
2	Jwalapur	2,898	90	1,162	13	Shantikunj	2,821	57	610
3	Arya Nagar	1,693	143	3,970	12	Motichur	6,941	375	3,374
4	Ram Nagar	1,149	136	5,520	11	Kharkhari	1,025	213	9,940
5	City Hospital	7,599	1,388	6,533	10	Har-Ki-Pauri	4,081	1,214	10,752
6	Rishikul	2,931	1,339	12,744	9	Mansadevi Ropeway Gate	2,641	981	13,619
7	Haridwar Railway Station	6,921	3,069	14,336	8	Valmiki Chowk	2,286	1,087	15,279
8	Valmiki Chowk	1,010	2,384	18,188	7	Haridwar Railway Station	2,929	6,756	16,478
9	Mansadevi Ropeway Gate	869	2,812	16,814	6	Rishikul	1,310	2,731	12,651
10	Har-Ki-Pauri	1,096	4,730	14,871	5	City Hospital	1,536	6,227	11,230
11	Kharkhari	267	912	11,237	4	Ram Nagar	142	1,134	6,539
12	Motichur	400	6,941	10,592	3	Arya Nagar	141	1,967	5,547
13	Shantikunj	50	3,491	4,051	2	Jwalapur	100	2,496	3,721
14	Bharat Mata Temple	0	610	610	1	Sitapur	0	1,325	1,325
	Total	28,045	28,045			Total	26,563	26,563	

City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2021									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	6,939	0	0	5	Daksh Temple	393	0	0
2	Kankhal Chowk	226	1,047	6,939	4	Ganeshpuram	4,902	48	393
3	Kankhal	104	1,809	6,118	3	Kankhal	2,516	93	5,247
4	Ganeshpuram	54	4,077	4,413	2	Kankhal Chowk	1,161	255	7,670
5	Daksh Temple	0	390	390	1	City Hospital	0	8,576	8,576
	Total	7,323	7,323			Total	8,972	8,972	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,909	0	0	2	Laltaro Bridge	1,814	0	0
2	Laltaro Bridge	0	1,909	1,909	1	Valmiki Chowk	0	1,814	1,814
	Total	1,909	1,909			Total	1,814	1,814	

Ganeshpuram-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2021									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	3,183	0	0	3	DAV School	2,673	0	0
2	Jagjeetpur	88	1,057	3,183	2	Jagjeetpur	1,071	87	2,673
3	DAV School	0	2,214	2,214	1	Ganeshpuram	0	3,657	3,657

		Total	3,271	3,271				Total	3,744	3,744
Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2031										
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	2,099	0	0	14	Bharat Mata Temple	896	0	0	
2	Jwalapur	4,802	193	2,099	13	Shantikunj	4,174	85	896	
3	Arya Nagar	4,038	414	6,708	12	Motichur	9,187	414	4,985	
4	Ram Nagar	2,297	404	10,332	11	Kharkhari	1,884	320	13,758	
5	City Hospital	12,534	2,554	12,225	10	Har-Ki-Pauri	6,171	1,647	15,322	
6	Rishikul	4,326	3,095	22,205	9	Mansadevi Ropeway Gate	3,866	1,282	19,846	
7	Haridwar Railway Station	8,414	4,465	23,436	8	Valmiki Chowk	3,819	1,326	22,430	
8	Valmiki Chowk	1,238	3,823	27,385	7	Haridwar Railway Station	4,305	8,261	24,923	
9	Mansadevi Ropeway Gate	1,126	4,120	24,800	6	Rishikul	3,030	4,050	20,967	
10	Har-Ki-Pauri	1,461	7,076	21,806	5	City Hospital	2,921	10,339	19,947	
11	Kharkhari	355	1,787	16,191	4	Ram Nagar	373	2,381	12,529	
12	Motichur	439	9,182	14,759	3	Arya Nagar	394	4,666	10,521	
13	Shantikunj	78	5,172	6,016	2	Jwalapur	222	4,106	6,249	
14	Bharat Mata Temple	0	923	922	1	Sitapur	0	2,366	2,365	
Total		43,207	43,208		Total		41,242	41,243		
City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2031										
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	City Hospital	11,256	0	0	5	Daksh Temple	883	0	0	
2	Kankhal Chowk	317	2,036	11,256	4	Ganeshpuram	7,776	122	883	
3	Kankhal	183	2,771	9,537	3	Kankhal	3,871	173	8,537	
4	Ganeshpuram	119	6,256	6,949	2	Kankhal Chowk	2,265	382	12,235	
5	Daksh Temple	0	813	812	1	City Hospital	0	14,119	14,118	
Total		11,875	11,875		Total		14,795	14,795		
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2031										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	2,831	0	0	2	Laltaro Bridge	2,781	0	0	
2	Laltaro Bridge	0	2,831	2,831	1	Valmiki Chowk	0	2,781	2,781	
Total		2,831	2,831		Total		2,781	2,781		
Ganeshpuram-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2031										
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Ganeshpuram	4,978	0	0	3	DAV School	4,408	0	0	
2	Jageetpur	86	1,578	4,978	2	Jageetpur	1,713	91	4,408	
3	DAV School	0	3,486	3,486	1	Ganeshpuram	0	6,030	6,030	
Total		5,064	5,064		Total		6,121	6,121		

Table 5-44: Daily PRT Ridership Details for Poornima (Mela) Day – Option-VII

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	2,254	0	0	14	Bharat Mata Temple	610	0	0
2	Jwalapur	5,919	120	2,254	13	Shantikunj	2,821	57	610
3	Arya Nagar	4,047	211	8,053	12	Motichur	6,941	375	3,374
4	Ram Nagar	2,337	203	11,889	11	Kharkhari	1,292	213	9,940
5	City Hospital	18,004	1,475	14,023	10	Har-Ki-Pauri	15,829	1,214	11,019
6	Rishikul	7,141	1,699	30,552	9	Mansadevi Ropeway Gate	10,949	1,895	25,634
7	Haridwar Railway Station	18,026	10,088	35,994	8	Valmiki Chowk	8,708	3,349	34,688
8	Valmiki Chowk	3,124	9,201	43,932	7	Haridwar Railway Station	9,687	17,473	40,047
9	Mansadevi Ropeway Gate	1,664	11,281	37,855	6	Rishikul	1,719	6,565	32,261
10	Har-Ki-Pauri	1,096	17,920	28,238	5	City Hospital	1,617	14,743	27,415
11	Kharkhari	267	1,089	11,414	4	Ram Nagar	211	2,348	14,289
12	Motichur	400	6,941	10,592	3	Arya Nagar	210	5,023	12,152
13	Shantikunj	50	3,491	4,051	2	Jwalapur	136	4,964	7,339
14	Bharat Mata Temple	0	610	610	1	Sitapur	0	2,512	2,511
	Total	64,329	64,329			Total	60,730	60,731	
City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	14,487	0	0	5	Daksh Temple	393	0	0
2	Kankhal Chowk	354	2,170	14,487	4	Ganeshpuram	12,003	48	393
3	Kankhal	159	2,886	12,671	3	Kankhal	3,993	144	12,348
4	Ganeshpuram	54	9,607	9,944	2	Kankhal Chowk	2,324	402	16,197
5	Daksh Temple	0	390	391	1	City Hospital	0	18,118	18,119
	Total	15,054	15,054			Total	18,713	18,713	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2021									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	6,904	0	0	2	Laltaro Bridge	6,508	0	0
2	Laltaro Bridge	0	6,904	6,904	1	Valmiki Chowk	0	6,508	6,508
	Total	6,904	6,904			Total	6,508	6,508	
Ganeshpuram-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2021									

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	7,489	0	0	3	DAV School	7,129	0	0
2	Jagjeetpur	144	2,037	7,489	2	Jagjeetpur	2,059	143	7,129
3	DAV School	0	5,596	5,596	1	Ganeshpuram	0	9,045	9,045
	Total	7,633	7,633			Total	9,188	9,188	

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	4,246	0	0	14	Bharat Mata Temple	896	0	0
2	Jwalapur	9,186	254	4,246	13	Shantikunj	4,174	85	896
3	Arya Nagar	9,627	580	13,178	12	Motichur	9,187	414	4,985
4	Ram Nagar	4,390	577	22,225	11	Kharkhari	2,269	320	13,758
5	City Hospital	28,585	2,749	26,038	10	Har-Ki-Pauri	19,711	1,647	15,707
6	Rishikul	10,408	3,850	51,874	9	Mansadevi Ropeway Gate	12,489	1,822	33,771
7	Haridwar Railway Station	14,948	14,497	58,432	8	Valmiki Chowk	12,491	2,790	44,438
8	Valmiki Chowk	2,594	12,407	58,883	7	Haridwar Railway Station	14,026	14,639	54,139
9	Mansadevi Ropeway Gate	1,622	13,289	49,070	6	Rishikul	3,858	9,575	53,526
10	Har-Ki-Pauri	1,461	22,414	37,403	5	City Hospital	3,105	23,528	47,809
11	Kharkhari	355	2,043	16,450	4	Ram Nagar	541	4,652	27,386
12	Motichur	439	9,182	14,762	3	Arya Nagar	562	11,880	23,275
13	Shantikunj	78	5,172	6,019	2	Jwalapur	285	7,682	11,957
14	Bharat Mata Temple	0	923	925	1	Sitapur	0	4,558	4,560
	Total	87,939	87,937			Total	83,594	83,592	

City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2031

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	22,368	0	0	5	Daksh Temple	883	0	0
2	Kankhal Chowk	476	3,829	22,368	4	Ganeshpuram	18,177	122	883
3	Kankhal	267	4,408	19,015	3	Kankhal	6,030	251	18,938
4	Ganeshpuram	119	14,179	14,874	2	Kankhal Chowk	4,138	576	24,717
5	Daksh Temple	0	813	814	1	City Hospital	0	28,278	28,279
	Total	23,230	23,230			Total	29,228	29,228	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
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Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	8,359	0	0	2	Laltaro Bridge	8,297	0	0
2	Laltaro Bridge	0	8,359	8,359	1	Valmiki Chowk	0	8,297	8,297
	Total	8,359	8,359			Total	8,297	8,297	

Ganeshpuram-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2031									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	11,286	0	0	3	DAV School	11,166	0	0
2	Jagjeetpur	132	2,972	11,286	2	Jagjeetpur	3,242	140	11,166
3	DAV School	0	8,447	8,446	1	Ganeshpuram	0	14,269	14,268
	Total	11,418	11,419			Total	14,408	14,409	

Table 5-45: Peak Hour PRT Ridership Details for Normal Day – Option-VII

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	116	0	0	14	Bharat Mata Temple	61	0	0
2	Jwalapur	290	9	116	13	Shantikunj	282	6	61
3	Arya Nagar	169	14	397	12	Motichur	694	38	337
4	Ram Nagar	115	14	552	11	Kharkhari	103	21	994
5	City Hospital	760	139	653	10	Har-Ki-Pauri	408	121	1,075
6	Rishikul	293	134	1,274	9	Mansadevi Ropeway Gate	264	98	1,362
7	Haridwar Railway Station	692	307	1,434	8	Valmiki Chowk	229	109	1,528
8	Valmiki Chowk	101	238	1,819	7	Haridwar Railway Station	293	676	1,648
9	Mansadevi Ropeway Gate	87	281	1,681	6	Rishikul	131	273	1,265
10	Har-Ki-Pauri	110	473	1,487	5	City Hospital	154	623	1,123
11	Kharkhari	27	91	1,124	4	Ram Nagar	14	113	654
12	Motichur	40	694	1,059	3	Arya Nagar	14	197	555
13	Shantikunj	5	349	405	2	Jwalapur	10	250	372
14	Bharat Mata Temple	0	61	61	1	Sitapur	0	133	133
	Total	2,805	2,804			Total	2,657	2,658	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	694	0	0	5	Daksh Temple	39	0	0

2	Kankhal Chowk	23	105	694	4	Ganeshpuram	490	5	39
3	Kankhal	10	181	612	3	Kankhal	252	9	525
4	Ganeshpuram	5	408	441	2	Kankhal Chowk	116	26	767
5	Daksh Temple	0	39	39	1	City Hospital	0	858	858
Total		732	732			Total	897	897	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	191	0	0	2	Laltaro Bridge	181	0	0
2	Laltaro Bridge	0	191	191	1	Valmiki Chowk	0	181	181
Total		191	191		Total		181	181	

Ganeshpuram-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2021

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	318	0	0	3	DAV School	267	0	0
2	Jagjeetpur	9	106	318	2	Jagjeetpur	107	9	267
3	DAV School	0	221	221	1	Ganeshpuram	0	366	366
Total		327	327		Total		374	375	

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	210	0	0	14	Bharat Mata Temple	90	0	0
2	Jwalapur	480	19	210	13	Shantikunj	417	9	90
3	Arya Nagar	404	41	671	12	Motichur	919	41	499
4	Ram Nagar	230	40	1,033	11	Kharkhari	188	32	1,376
5	City Hospital	1,253	255	1,223	10	Har-Ki-Pauri	617	165	1,532
6	Rishikul	433	310	2,221	9	Mansadevi Ropeway Gate	387	128	1,985
7	Haridwar Railway Station	841	447	2,344	8	Valmiki Chowk	382	133	2,243
8	Valmiki Chowk	124	382	2,739	7	Haridwar Railway Station	431	826	2,492
9	Mansadevi Ropeway Gate	113	412	2,480	6	Rishikul	303	405	2,097
10	Har-Ki-Pauri	146	708	2,181	5	City Hospital	292	1,034	1,995
11	Kharkhari	36	179	1,619	4	Ram Nagar	37	238	1,253
12	Motichur	44	918	1,476	3	Arya Nagar	39	467	1,052
13	Shantikunj	8	517	602	2	Jwalapur	22	411	625
14	Bharat Mata Temple	0	92	92	1	Sitapur	0	237	237
Total		4,322	4,322		Total		4,124	4,124	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
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Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,126	0	0	5	Daksh Temple	88	0	0
2	Kankhal Chowk	32	204	1,126	4	Ganeshpuram	778	12	88
3	Kankhal	18	277	954	3	Kankhal	387	17	854
4	Ganeshpuram	12	626	695	2	Kankhal Chowk	227	38	1,224
5	Daksh Temple	0	81	81	1	City Hospital	0	1,412	1,412
Total		1,188	1,188		Total		1,480	1,480	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	283	0	0	2	Laltaro Bridge	278	0	0
2	Laltaro Bridge	0	283	283	1	Valmiki Chowk	0	278	278
Total		283	283		Total		278	278	
Ganeshpuram-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2031									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	498	0	0	3	DAV School	441	0	0
2	Jagjeetpur	9	158	498	2	Jagjeetpur	171	9	441
3	DAV School	0	349	349	1	Ganeshpuram	0	603	603
Total		507	507		Total		612	612	

Table 5-46: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-VII

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	225	0	0	14	Bharat Mata Temple	61	0	0
2	Jwalapur	592	12	225	13	Shantikunj	282	6	61
3	Arya Nagar	405	21	805	12	Motichur	694	38	337
4	Ram Nagar	234	20	1,189	11	Kharkhari	129	21	994
5	City Hospital	1,800	148	1,402	10	Har-Ki-Pauri	1,583	121	1,102
6	Rishikul	714	170	3,055	9	Mansadevi Ropeway Gate	1,095	190	2,563
7	Haridwar Railway Station	1,803	1,009	3,599	8	Valmiki Chowk	871	335	3,469
8	Valmiki Chowk	312	920	4,393	7	Haridwar Railway Station	969	1,747	4,005
9	Mansadevi Ropeway Gate	166	1,128	3,786	6	Rishikul	172	657	3,226

10	Har-Ki-Pauri	110	1,792	2,824	5	City Hospital	162	1,474	2,742
11	Kharkhari	27	109	1,141	4	Ram Nagar	21	235	1,429
12	Motichur	40	694	1,059	3	Arya Nagar	21	502	1,215
13	Shantikunj	5	349	405	2	Jwalapur	14	496	734
14	Bharat Mata Temple	0	61	61	1	Sitapur	0	251	251
Total		6,433	6,433			Total	6,074	6,073	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,449	0	0	5	Daksh Temple	39	0	0
2	Kankhal Chowk	35	217	1,449	4	Ganeshpuram	1,200	5	39
3	Kankhal	16	289	1,267	3	Kankhal	399	14	1,235
4	Ganeshpuram	5	961	994	2	Kankhal Chowk	232	40	1,620
5	Daksh Temple	0	39	39	1	City Hospital	0	1,812	1,812
Total		1,505	1,505			Total	1,870	1,870	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	690	0	0	2	Laltaro Bridge	651	0	0
2	Laltaro Bridge	0	690	690	1	Valmiki Chowk	0	651	651
Total		690	690			Total	651	651	

Ganeshpuram-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2021

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	749	0	0	3	DAV School	713	0	0
2	Jagjeetpur	14	204	749	2	Jagjeetpur	206	14	713
3	DAV School	0	560	560	1	Ganeshpuram	0	905	905
Total		763	764			Total	919	919	

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	425	0	0	14	Bharat Mata Temple	90	0	0
2	Jwalapur	919	25	425	13	Shantikunj	417	9	90
3	Arya Nagar	963	58	1,318	12	Motichur	919	41	499
4	Ram Nagar	439	58	2,223	11	Kharkhari	227	32	1,376

5	City Hospital	2,859	275	2,604	10	Har-Ki-Pauri	1,971	165	1,571
6	Rishikul	1,041	385	5,187	9	Mansadevi Ropeway Gate	1,249	182	3,377
7	Haridwar Railway Station	1,495	1,450	5,843	8	Valmiki Chowk	1,249	279	4,444
8	Valmiki Chowk	259	1,241	5,888	7	Haridwar Railway Station	1,403	1,464	5,414
9	Mansadevi Ropeway Gate	162	1,329	4,907	6	Rishikul	386	958	5,353
10	Har-Ki-Pauri	146	2,241	3,740	5	City Hospital	311	2,353	4,781
11	Kharkhari	36	204	1,645	4	Ram Nagar	54	465	2,739
12	Motichur	44	918	1,476	3	Arya Nagar	56	1,188	2,328
13	Shantikunj	8	517	602	2	Jwalapur	29	768	1,196
14	Bharat Mata Temple	0	92	93	1	Sitapur	0	456	456
	Total	8,796	8,796			Total	8,361	8,361	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	2,237	0	0	5	Daksh Temple	88	0	0
2	Kankhal Chowk	48	383	2,237	4	Ganeshpuram	1,818	12	88
3	Kankhal	27	441	1,902	3	Kankhal	603	25	1,894
4	Ganeshpuram	12	1,418	1,487	2	Kankhal Chowk	414	58	2,472
5	Daksh Temple	0	81	81	1	City Hospital	0	2,828	2,828
	Total	2,324	2,324			Total	2,923	2,923	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	836	0	0	2	Laltaro Bridge	830	0	0
2	Laltaro Bridge	0	836	836	1	Valmiki Chowk	0	830	830
	Total	836	836			Total	830	830	

Ganeshpuram-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2031

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	1,129	0	0	3	DAV School	1,117	0	0
2	Jagjeetpur	13	297	1,129	2	Jagjeetpur	324	14	1,117
3	DAV School	0	845	845	1	Ganeshpuram	0	1,427	1,427
	Total	1,142	1,142			Total	1,441	1,441	

5.6 OPTION EVALUATION

Initially the proposed PRT corridor in Haridwar city was conceptualised from Sitapur to Har-Ki-Pauri. However, estimated ridership for this independent Sitapur to Har-Ki-Pauri section found very low. Therefore, this corridor is proposed to extend till Motichur area from Har-Ki-Pauri and another corridor from Shivalik Nagar (BHEL Township) to DAV School on Laksar Road has also been proposed. Shivalik Nagar (BHEL Township) to DAV

School corridor intersects the Sitapur to Motichur corridor at Chandra Arya Chowk near City Hospital. One more option is also conceptualised connecting Bharat Mata Temple and Daksh Temple to capture the additional potential pilgrims or tourists. With these different combinations of proposed PRT networks, a set of 7 possible alternative options have been conceptualised. These 7 options have been defined in previous sections of this chapter along with their ridership details for horizon year 2021 and 2031. However, for easy evaluation of the best possible network option, a comprehensive ridership summary of all the options is presented on next page.

Estimated ridership for Sitapur to Har-Ki-Pauri corridor (option-I) and Sitapur to Motichur corridor (option-II) for both the normal day as well as annual average daily are very low compare to other 5 options. Therefore, these two options (option-I and option-II) are not viable to develop. Estimated ridership of option-V is highest among all the options for all the situations or scenarios. This is due to connectivity of Haridwar Railway Station, Haridwar Bus Terminal and Har-Ki-Pauri with enhanced catchment area of BHEL Township and institutional areas as well as religious places along the Laksar Road. However, the network length of option-V is much higher than all other options. This indicates that despite the maximum demand, option-V may not be the best viable option. Further, option-IV with lowest network length (15 km) from rest 4 options (option III, IV, VI and VII) shows higher demand than option-VI for all the situations (scenarios). This indicates that option-VI is not also the best viable network.

Table 5-47: Comprehensive Ridership Summary of Different Options Conceptualised for Proposed PRT System in Haridwar

Horizon Year	Scenario	Ridership Details	Option-I: Har-Ki-Pauri to Sitapur – 8 km	Option-II: Motichur to Sitapur – 11 km	Option-III: Motichur to Sitapur and Prem Nagar to Shivalik Nagar (BHEL Township) – 18 km	Option-IV: Motichur to Sitapur and Prem Nagar to DAV School – 15 km	Option-V: Motichur to Sitapur, Prem Nagar to DAV school and Prem Nagar to Shivalik Nagar (BHEL Township) – 23 km	Option-VI: Bharat Mata Temple to Sitapur and Prem Nagar to Daksh Temple – 17 km	Option-VII: Bharat Mata Temple to Sitapur, Prem Nagar to Daksh Temple and Ganeshapuram to DAV School – 19 km
2021	Normal Day	Daily Ridership	22,820	37,588	70,923	63,371	99,446	61,788	81,641
		PHPDT	629	1,165	1,521	1,522	1,879	1,604	1,819
		Daily Passenger-km	76,096	1,59,984	2,94,111	2,42,607	4,01,289	2,64,282	3,17,205
		Average Trip Length	3.33	4.26	4.15	3.83	4.04	4.28	3.89
	Poornima (Mela) Day	Daily Ridership	84,724	99,492	1,32,827	1,61,224	1,97,299	1,40,073	1,89,057
		PHPDT	2,502	3,038	3,394	4,097	4,453	3,760	4,393
		Daily Passenger-km	2,49,479	3,33,691	4,92,088	5,37,580	6,97,907	4,80,134	6,10,416
		Average Trip Length	2.94	3.35	3.70	3.33	3.54	3.43	3.23
	Annual Average	Daily Ridership	35,540	50,308	83,643	83,478	1,19,553	77,874	1,03,712
		PHPDT	1,014	1,550	1,906	2,051	2,408	2,047	2,348
		Daily Passenger-km	1,11,723	1,95,677	3,34,791	3,03,218	4,62,238	3,08,635	3,77,454
		Average Trip Length	3.25	4.07	4.06	3.73	3.93	4.10	3.75
2031	Normal Day	Daily Ridership	36,820	57,254	90,834	98,967	1,36,004	96,012	1,27,917
		PHPDT	970	1,727	2,016	2,260	2,550	2,409	2,739
		Daily Passenger-km	1,31,821	2,49,785	3,72,310	3,78,706	5,29,256	4,14,475	4,98,120
		Average Trip Length	3.58	4.36	4.10	3.83	3.89	4.32	3.89
	Poornima (Mela) Day	Daily Ridership	1,08,005	1,28,439	1,62,020	2,23,102	2,60,139	1,90,695	2,66,470
		PHPDT	3,103	3,830	4,115	5,410	5,845	4,917	5,888
		Daily Passenger-km	3,88,809	5,07,267	6,52,628	8,15,637	9,68,638	7,32,324	9,32,513
		Average Trip Length	3.60	3.95	4.03	3.66	3.72	3.84	3.50
	Annual Average	Daily Ridership	51,447	71,881	1,05,462	1,24,474	1,61,511	1,15,468	1,56,387
		PHPDT	1,408	2,159	2,447	2,907	3,227	2,924	3,386
		Daily Passenger-km	1,84,627	3,02,692	4,29,909	4,68,487	6,19,540	4,79,787	5,87,379
		Average Trip Length	3.58	4.28	4.08	3.79	3.86	4.22	3.81

Therefore, individual ridership parameter is not enough to evaluate the best viable option or configuration for the proposed PRT network in Haridwar city. Therefore, a next stage evaluation with estimated ridership per unit network length for each option is necessary to find out the best possible configuration. To evaluate finally the best one among all the options, passenger-km per km of network length for each option in 2031 (as the proposed PRT in Haridwar might be operational from 2026 or thereafter) is compared and presented below:

Table 5-48: Final Evaluation of Different Options Conceptualised for Proposed PRT System in Haridwar Based on Passenger-km per Network-km

Horizon Years and Scenarios	Option-I: Har-Ki-Pauri to Sitapur – 8 km	Option-II: Motichur to Sitapur – 11 km	Option-III: Motichur to Sitapur and Prem Nagar to Shivalik Nagar (BHEL Township) – 18 km	Option-IV: Motichur to Sitapur and Prem Nagar to DAV School – 15 km	Option-V: Motichur to Sitapur, Prem Nagar to DAV school and Prem Nagar to Shivalik Nagar (BHEL Township) – 23 km	Option-VI: Bharat Mata Temple to Sitapur and Prem Nagar to Daksh Temple – 17 km	Option-VII: Bharat Mata Temple to Sitapur, Prem Nagar to Daksh Temple and Ganeshapuram to DAV School – 19 km
2021 (Normal Day)	9,512	14,544	16,339	16,174	17,447	15,546	16,695
2021 (Poornima/ Mela Day)	31,185	30,336	27,338	35,839	30,344	28,243	32,127
2021 (Annual Average Daily)	13,965	17,789	18,599	20,215	20,097	18,155	19,866
2031 (Normal Day)	16,478	22,708	20,684	25,247	23,011	24,381	26,217
2031 (Poornima/ Mela Day)	48,601	46,115	36,257	54,376	42,115	43,078	49,080
2031 (Annual Average Daily)	23,078	27,517	23,884	31,232	26,937	28,223	30,915

Final stage evaluation based on passenger-km per unit of network-km for each option mentioned above shows that the annual average daily number with due impact of Poornima (Mela) day in terms of passenger-km per network-km for option-IV is the highest followed by option-VII. Despite being second highest in terms of passenger-km per network-km, option-VII connects additional two major temples (tourist spots and religious places) compare to option-IV. These two temples are Bharat Mata Temple and Daksh Temple. Therefore, **based on the combined benefit of passenger-km per network-km and connectivity of all important places including the maximum possible numbers of religious places, option-VII is selected as the most viable option for implementation.**

This option evaluation process has been discussed in detail with the concerned authorities of Uttarakhand Metro Rail, Urban Infrastructure and Building Construction Corporation Ltd. Later on, Uttarakhand Metro Rail, Urban Infrastructure and Building Construction Corporation Ltd. vide their letter no. 849/U.M.-46/2019-20 dated 12-02-2020 also recommended that option-VII connecting all major temples and religious places for preparation of DPR of PRT System in Haridwar City.

5.7 FUTURE FORECAST FOR 2041 AND 2051 OF SELECTED OPTION

As option-VII has been selected for implementation, future forecasted ridership details for 2041 and 2051 have been assessed for this option. Tables below present the proposed daily and peak hour ridership estimates in option-VII for the horizon years 2041 and 2051. Both the normal day and Poornima (Mela) Day estimates have been presented separately.

Table 5-49: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-VII (2041 and 2051)

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2041	Sitapur - Bharat Mata Temple	14.55	1,12,558	3,681	6,46,088	5.74
2041	City Hospital - Daksh Temple	3.11	35,642	1,892	73,400	2.06
2041	Valmiki Chowk - Laltaro Bridge	0.69	7,256	364	4,716	0.65
2041	Ganeshpuram - DAV School	2.38	14,372	776	32,148	2.24
2051	Sitapur - Bharat Mata Temple	14.55	1,45,939	4,849	8,43,098	5.78
2051	City Hospital - Daksh Temple	3.11	45,574	2,446	92,222	2.02
2051	Valmiki Chowk - Laltaro Bridge	0.69	9,393	471	6,105	0.65
2051	Ganeshpuram - DAV School	2.38	17,412	953	39,677	2.28

Table 5-50: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-VII (2041 and 2051)

Target Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger Kilometers (km)	Average Trip Length/ Passenger Lead (km)
2041	Sitapur - Bharat Mata Temple	14.55	2,28,185	7,894	11,73,564	5.14
2041	City Hospital - Daksh Temple	3.11	69,355	3,741	1,43,913	2.08
2041	Valmiki Chowk - Laltaro Bridge	0.69	21,752	1,090	14,139	0.65
2041	Ganeshpuram - DAV School	2.38	33,547	1,857	77,786	2.32
2051	Sitapur - Bharat Mata Temple	14.55	2,97,100	10,462	15,40,236	5.18
2051	City Hospital - Daksh Temple	3.11	89,220	4,862	1,83,503	2.06
2051	Valmiki Chowk - Laltaro Bridge	0.69	28,337	1,423	18,419	0.65
2051	Ganeshpuram - DAV School	2.38	42,092	2,360	99,411	2.36

Table 5-51: Daily PRT Ridership Details for Normal Day – Option-VII (2041 and 2051)

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2041										
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Sitapur	2,816	0	0	14	Bharat Mata Temple	930	0	0	
2	Jwalapur	6,421	257	2,816	13	Shantikunj	5,564	90	930	

3	Arya Nagar	5,626	562	8,980	12	Motichur	12,299	485	6,404
4	Ram Nagar	3,099	543	14,044	11	Kharkhari	2,521	389	18,218
5	City Hospital	16,684	3,455	16,600	10	Har-Ki-Pauri	5,747	901	20,350
6	Rishikul	5,849	4,321	29,829	9	Mansadevi Ropeway Gate	7,935	3,046	25,196
7	Haridwar Railway Station	11,064	5,615	31,357	8	Valmiki Chowk	5,092	1,597	30,085
8	Valmiki Chowk	1,477	5,029	36,806	7	Haridwar Railway Station	5,474	10,944	33,580
9	Mansadevi Ropeway Gate	2,362	9,603	33,254	6	Rishikul	4,252	5,485	28,110
10	Har-Ki-Pauri	1,046	5,506	26,013	5	City Hospital	3,940	13,749	26,877
11	Kharkhari	424	2,385	21,553	4	Ram Nagar	497	3,232	17,068
12	Motichur	520	12,224	19,592	3	Arya Nagar	539	6,534	14,333
13	Shantikunj	84	7,007	7,888	2	Jwalapur	298	5,413	8,338
14	Bharat Mata Temple	0	963	965	1	Sitapur	0	3,221	3,223
Total		57,472	57,470			Total	55,088	55,086	

City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2041

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	15,048	0	0	5	Daksh Temple	1,175	0	0
2	Kankhal Chowk	443	2,777	15,048	4	Ganeshpuram	10,079	123	1,175
3	Kankhal	236	3,891	12,714	3	Kankhal	5,454	212	11,131
4	Ganeshpuram	128	8,086	9,059	2	Kankhal Chowk	3,079	537	16,373
5	Daksh Temple	0	1,101	1,101	1	City Hospital	0	18,915	18,915
Total		15,855	15,855		Total		19,787	19,787	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2041

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	3,644	0	0	2	Laltaro Bridge	3,612	0	0
2	Laltaro Bridge	0	3,644	3,644	1	Valmiki Chowk	0	3,612	3,612
Total		3,644	3,644		Total		3,612	3,612	

Ganeshpuram-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2041

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	6,375	0	0	3	DAV School	5,792	0	0
2	Jagjeetpur	117	1,916	6,375	2	Jagjeetpur	2,087	120	5,792
3	DAV School	0	4,577	4,576	1	Ganeshpuram	0	7,760	7,759
Total		6,492	6,492		Total		7,879	7,879	

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Normal Day - Horizon Year 2051

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	3,443	0	0	14	Bharat Mata Temple	956	0	0
2	Jwalapur	8,396	308	3,443	13	Shantikunj	7,459	93	956
3	Arya Nagar	7,542	726	11,531	12	Motichur	15,882	583	8,322

4	Ram Nagar	3,887	651	18,347	11	Kharkhari	3,197	450	23,621
5	City Hospital	21,762	4,099	21,583	10	Har-Ki-Pauri	7,683	1,124	26,368
6	Rishikul	7,890	5,819	39,246	9	Mansadevi Ropeway Gate	10,585	4,145	32,927
7	Haridwar Railway Station	14,106	6,938	41,317	8	Valmiki Chowk	6,684	2,007	39,367
8	Valmiki Chowk	1,838	6,553	48,485	7	Haridwar Railway Station	6,799	13,962	44,044
9	Mansadevi Ropeway Gate	3,170	12,914	43,770	6	Rishikul	5,730	7,385	36,881
10	Har-Ki-Pauri	1,318	7,353	34,026	5	City Hospital	4,745	17,726	35,226
11	Kharkhari	501	2,998	27,991	4	Ram Nagar	583	4,088	22,245
12	Motichur	630	15,745	25,494	3	Arya Nagar	701	8,808	18,740
13	Shantikunj	86	9,478	10,379	2	Jwalapur	367	6,948	10,633
14	Bharat Mata Temple	0	987	987	1	Sitapur	0	4,052	4,052
Total		74,569	74,569			Total	71,371	71,371	

City Hospital-Daksh Temple Corridor Daily Ridership for Normal Day - Horizon Year 2051

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	19,139	0	0	5	Daksh Temple	1,348	0	0
2	Kankhal Chowk	546	3,698	19,139	4	Ganeshpuram	12,580	119	1,348
3	Kankhal	265	5,253	15,987	3	Kankhal	7,445	236	13,809
4	Ganeshpuram	129	9,878	10,999	2	Kankhal Chowk	4,121	677	21,018
5	Daksh Temple	0	1,250	1,250	1	City Hospital	0	24,462	24,462
Total		20,079	20,079			Total	25,494	25,494	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Normal Day - Horizon Year 2051

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	4,707	0	0	2	Laltaro Bridge	4,686	0	0
2	Laltaro Bridge	0	4,707	4,707	1	Valmiki Chowk	0	4,686	4,686
Total		4,707	4,707			Total	4,686	4,686	

Ganeshpuram-DAV School Corridor Daily Ridership for Normal Day - Horizon Year 2051

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	7,653	0	0	3	DAV School	7,353	0	0
2	Jagjeetpur	114	2,089	7,653	2	Jagjeetpur	2,292	118	7,353
3	DAV School	0	5,678	5,678	1	Ganeshpuram	0	9,527	9,527
Total		7,767	7,767			Total	9,645	9,645	

Table 5-52: Daily PRT Ridership Details for Poornima (Mela) Day – Option-VII (2041 and 2051)

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2041

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	5,628	0	0	14	Bharat Mata Temple	930	0	0

2	Jwalapur	12,378	336	5,628	13	Shantikunj	5,564	90	930
3	Arya Nagar	13,392	787	17,670	12	Motichur	12,299	485	6,404
4	Ram Nagar	5,799	775	30,275	11	Kharkhari	3,062	389	18,218
5	City Hospital	37,567	3,712	35,299	10	Har-Ki-Pauri	18,261	901	20,891
6	Rishikul	13,962	5,369	69,154	9	Mansadevi Ropeway Gate	25,578	4,194	38,251
7	Haridwar Railway Station	19,354	18,165	77,747	8	Valmiki Chowk	16,711	3,374	59,635
8	Valmiki Chowk	3,100	16,364	78,936	7	Haridwar Railway Station	17,769	19,096	72,972
9	Mansadevi Ropeway Gate	3,294	30,915	65,672	6	Rishikul	5,411	12,832	71,645
10	Har-Ki-Pauri	1,046	17,187	38,051	5	City Hospital	4,180	30,951	64,224
11	Kharkhari	424	2,745	21,910	4	Ram Nagar	720	6,229	37,453
12	Motichur	520	12,224	19,589	3	Arya Nagar	769	16,727	31,944
13	Shantikunj	84	7,007	7,885	2	Jwalapur	380	10,204	15,986
14	Bharat Mata Temple	0	963	962	1	Sitapur	0	6,164	6,162
	Total	1,16,548	1,16,549			Total	1,11,634	1,11,636	

City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2041

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	29,573	0	0	5	Daksh Temple	1,175	0	0
2	Kankhal Chowk	662	5,107	29,573	4	Ganeshpuram	23,704	123	1,175
3	Kankhal	345	6,063	25,128	3	Kankhal	8,307	310	24,756
4	Ganeshpuram	128	18,437	19,410	2	Kankhal Chowk	5,461	805	32,753
5	Daksh Temple	0	1,101	1,101	1	City Hospital	0	37,409	37,409
	Total	30,708	30,708			Total	38,647	38,647	

Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2041

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	10,856	0	0	2	Laltaro Bridge	10,896	0	0
2	Laltaro Bridge	0	10,856	10,856	1	Valmiki Chowk	0	10,896	10,896
	Total	10,856	10,856			Total	10,896	10,896	

Ganeshpuram-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2041

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	14,614	0	0	3	DAV School	14,807	0	0
2	Jagjeetpur	180	3,615	14,614	2	Jagjeetpur	3,947	183	14,807
3	DAV School	0	11,178	11,179	1	Ganeshpuram	0	18,570	18,571
	Total	14,794	14,793			Total	18,754	18,753	

Sitapur-Bharat Mata Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2051									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	6,907	0	0	14	Bharat Mata Temple	956	0	0
2	Jwalapur	16,485	400	6,907	13	Shantikunj	7,459	93	956
3	Arya Nagar	18,109	1,013	22,992	12	Motichur	15,882	583	8,322
4	Ram Nagar	7,173	923	40,088	11	Kharkhari	3,775	450	23,621
5	City Hospital	48,714	4,387	46,338	10	Har-Ki-Pauri	24,409	1,124	26,946
6	Rishikul	18,958	7,213	90,665	9	Mansadevi Ropeway Gate	34,151	5,677	50,231
7	Haridwar Railway Station	24,626	22,414	1,02,410	8	Valmiki Chowk	21,971	4,292	78,705
8	Valmiki Chowk	3,905	21,350	1,04,622	7	Haridwar Railway Station	22,082	24,293	96,384
9	Mansadevi Ropeway Gate	4,398	41,599	87,177	6	Rishikul	7,291	17,388	94,173
10	Har-Ki-Pauri	1,318	22,920	49,976	5	City Hospital	5,009	39,596	84,076
11	Kharkhari	501	3,382	28,374	4	Ram Nagar	841	7,841	49,489
12	Motichur	630	15,745	25,493	3	Arya Nagar	1,001	22,820	42,489
13	Shantikunj	86	9,478	10,378	2	Jwalapur	465	13,343	20,670
14	Bharat Mata Temple	0	987	986	1	Sitapur	0	7,790	7,792
Total		1,51,810	1,51,811		Total		1,45,292	1,45,290	
City Hospital-Daksh Temple Corridor Daily Ridership for Poornima Day - Horizon Year 2051									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	37,783	0	0	5	Daksh Temple	1,348	0	0
2	Kankhal Chowk	817	6,729	37,783	4	Ganeshpuram	30,349	119	1,348
3	Kankhal	387	8,051	31,871	3	Kankhal	11,194	346	31,578
4	Ganeshpuram	129	23,086	24,207	2	Kankhal Chowk	7,214	1,018	42,426
5	Daksh Temple	0	1,250	1,250	1	City Hospital	0	48,621	48,622
Total		39,116	39,116		Total		50,105	50,105	
Valmiki Chowk-Laltaro Bridge Corridor Daily Ridership for Poornima Day - Horizon Year 2051									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	14,104	0	0	2	Laltaro Bridge	14,232	0	0
2	Laltaro Bridge	0	14,104	14,104	1	Valmiki Chowk	0	14,232	14,232
Total		14,104	14,104		Total		14,232	14,232	
Ganeshpuram-DAV School Corridor Daily Ridership for Poornima Day - Horizon Year 2051									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	18,140	0	0	3	DAV School	19,430	0	0
2	Jagjeetpur	174	3,945	18,140	2	Jagjeetpur	4,348	180	19,430
3	DAV School	0	14,368	14,369	1	Ganeshpuram	0	23,598	23,598
Total		18,314	18,313		Total		23,778	23,778	

Table 5-53: Peak Hour PRT Ridership Details for Normal Day – Option-VII (2041 and 2051)

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2041									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	282	0	0	14	Bharat Mata Temple	93	0	0
2	Jwalapur	642	26	282	13	Shantikunj	556	9	93
3	Arya Nagar	563	56	898	12	Motichur	1,230	49	640
4	Ram Nagar	310	54	1,404	11	Kharkhari	252	39	1,822
5	City Hospital	1,668	346	1,660	10	Har-Ki-Pauri	575	90	2,035
6	Rishikul	585	432	2,983	9	Mansadevi Ropeway Gate	794	305	2,520
7	Haridwar Railway Station	1,106	562	3,136	8	Valmiki Chowk	509	160	3,009
8	Valmiki Chowk	148	503	3,681	7	Haridwar Railway Station	547	1,094	3,358
9	Mansadevi Ropeway Gate	236	960	3,325	6	Rishikul	425	549	2,811
10	Har-Ki-Pauri	105	551	2,601	5	City Hospital	394	1,375	2,688
11	Kharkhari	42	239	2,155	4	Ram Nagar	50	323	1,707
12	Motichur	52	1,222	1,959	3	Arya Nagar	54	653	1,433
13	Shantikunj	8	701	789	2	Jwalapur	30	541	834
14	Bharat Mata Temple	0	96	97	1	Sitapur	0	322	322
Total		5,747	5,747		Total		5,509	5,509	

City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2041									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,505	0	0	5	Daksh Temple	118	0	0
2	Kankhal Chowk	44	278	1,505	4	Ganeshpuram	1,008	12	118
3	Kankhal	24	389	1,271	3	Kankhal	545	21	1,113
4	Ganeshpuram	13	809	906	2	Kankhal Chowk	308	54	1,637
5	Daksh Temple	0	110	110	1	City Hospital	0	1,892	1,892
Total		1,586	1,586		Total		1,979	1,979	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2041									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				

Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	364	0	0	2	Laltaro Bridge	361	0	0
2	Laltaro Bridge	0	364	364	1	Valmiki Chowk	0	361	361
	Total	364	364			Total	361	361	
Ganeshpuram-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2041									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	638	0	0	3	DAV School	579	0	0
2	Jagjeetpur	12	192	638	2	Jagjeetpur	209	12	579
3	DAV School	0	458	458	1	Ganeshpuram	0	776	776
	Total	650	650			Total	788	788	
Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2051									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	344	0	0	14	Bharat Mata Temple	96	0	0
2	Jwalapur	840	31	344	13	Shantikunj	746	9	96
3	Arya Nagar	754	73	1,153	12	Motichur	1,588	58	832
4	Ram Nagar	389	65	1,835	11	Kharkhari	320	45	2,362
5	City Hospital	2,176	410	2,158	10	Har-Ki-Pauri	768	112	2,637
6	Rishikul	789	582	3,925	9	Mansadevi Ropeway Gate	1,059	415	3,293
7	Haridwar Railway Station	1,411	694	4,132	8	Valmiki Chowk	668	201	3,937
8	Valmiki Chowk	184	655	4,849	7	Haridwar Railway Station	680	1,396	4,404
9	Mansadevi Ropeway Gate	317	1,291	4,377	6	Rishikul	573	739	3,688
10	Har-Ki-Pauri	132	735	3,403	5	City Hospital	475	1,773	3,523
11	Kharkhari	50	300	2,799	4	Ram Nagar	58	409	2,225
12	Motichur	63	1,575	2,549	3	Arya Nagar	70	881	1,874
13	Shantikunj	9	948	1,038	2	Jwalapur	37	695	1,063
14	Bharat Mata Temple	0	99	99	1	Sitapur	0	405	405
	Total	7,458	7,458			Total	7,138	7,138	
City Hospital-Daksh Temple Corridor Peak Hour Ridership for Normal Day - Horizon Year 2051									
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	1,914	0	0	5	Daksh Temple	135	0	0
2	Kankhal Chowk	55	370	1,914	4	Ganeshpuram	1,258	12	135
3	Kankhal	27	525	1,599	3	Kankhal	745	24	1,381
4	Ganeshpuram	13	988	1,100	2	Kankhal Chowk	412	68	2,102

5	Daksh Temple	0	125	125	1	City Hospital	0	2,446	2,446
Total		2,009	2,009		Total		2,550	2,550	
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Normal Day - Horizon Year 2051									
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	471	0	0	2	Laltaro Bridge	469	0	0
2	Laltaro Bridge	0	471	471	1	Valmiki Chowk	0	469	469
Total		471	471		Total		469	469	
Ganeshpuram-DAV School Corridor Peak Hour Ridership for Normal Day - Horizon Year 2051									
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	765	0	0	3	DAV School	735	0	0
2	Jagjeetpur	11	209	765	2	Jagjeetpur	229	12	735
3	DAV School	0	568	568	1	Ganeshpuram	0	953	953
Total		776	777		Total		964	965	

Table 5-54: Peak Hour PRT Ridership Details for Poornima (Mela) Day – Option-VII (2041 and 2051)

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2041									
Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	563	0	0	14	Bharat Mata Temple	93	0	0
2	Jwalapur	1,238	34	563	13	Shantikunj	556	9	93
3	Arya Nagar	1,339	79	1,767	12	Motichur	1,230	49	640
4	Ram Nagar	580	78	3,028	11	Kharkhari	306	39	1,822
5	City Hospital	3,757	371	3,530	10	Har-Ki-Pauri	1,826	90	2,089
6	Rishikul	1,396	537	6,915	9	Mansadevi Ropeway Gate	2,558	419	3,825
7	Haridwar Railway Station	1,935	1,817	7,775	8	Valmiki Chowk	1,671	337	5,964
8	Valmiki Chowk	310	1,636	7,894	7	Haridwar Railway Station	1,777	1,910	7,297
9	Mansadevi Ropeway Gate	329	3,092	6,567	6	Rishikul	541	1,283	7,165
10	Har-Ki-Pauri	105	1,719	3,805	5	City Hospital	418	3,095	6,422
11	Kharkhari	42	275	2,191	4	Ram Nagar	72	623	3,745
12	Motichur	52	1,222	1,959	3	Arya Nagar	77	1,673	3,194
13	Shantikunj	8	701	789	2	Jwalapur	38	1,020	1,599
14	Bharat Mata Temple	0	96	96	1	Sitapur	0	616	616
Total		11,654	11,654		Total		11,163	11,163	
City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2041									

City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	City Hospital	2,957	0	0	5	Daksh Temple	118	0	0
2	Kankhal Chowk	66	511	2,957	4	Ganeshpuram	2,370	12	118
3	Kankhal	35	606	2,513	3	Kankhal	831	31	2,476
4	Ganeshpuram	13	1,844	1,941	2	Kankhal Chowk	546	81	3,275
5	Daksh Temple	0	110	110	1	City Hospital	0	3,741	3,741
Total		3,071	3,071		Total		3,865	3,865	

Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2041

Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Valmiki Chowk	1,086	0	0	2	Laltaro Bridge	1,090	0	0
2	Laltaro Bridge	0	1,086	1,086	1	Valmiki Chowk	0	1,090	1,090
Total		1,086	1,086		Total		1,090	1,090	

Ganeshpuram-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2041

Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Ganeshpuram	1,461	0	0	3	DAV School	1,481	0	0
2	Jagjeetpur	18	362	1,461	2	Jagjeetpur	395	18	1,481
3	DAV School	0	1,118	1,118	1	Ganeshpuram	0	1,857	1,857
Total		1,479	1,480		Total		1,876	1,875	

Sitapur-Bharat Mata Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2051

Sitapur to Bharat Mata Temple Direction					Bharat Mata Temple to Sitapur Direction				
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load
1	Sitapur	691	0	0	14	Bharat Mata Temple	96	0	0
2	Jwalapur	1,649	40	691	13	Shantikunj	746	9	96
3	Arya Nagar	1,811	101	2,299	12	Motichur	1,588	58	832
4	Ram Nagar	717	92	4,009	11	Kharkhari	378	45	2,362
5	City Hospital	4,871	439	4,634	10	Har-Ki-Pauri	2,441	112	2,695
6	Rishikul	1,896	721	9,067	9	Mansadevi Ropeway Gate	3,415	568	5,023
7	Haridwar Railway Station	2,463	2,241	10,241	8	Valmiki Chowk	2,197	429	7,871
8	Valmiki Chowk	391	2,135	10,462	7	Haridwar Railway Station	2,208	2,429	9,638
9	Mansadevi Ropeway Gate	440	4,160	8,718	6	Rishikul	729	1,739	9,417
10	Har-Ki-Pauri	132	2,292	4,998	5	City Hospital	501	3,960	8,408
11	Kharkhari	50	338	2,837	4	Ram Nagar	84	784	4,949
12	Motichur	63	1,575	2,549	3	Arya Nagar	100	2,282	4,249
13	Shantikunj	9	948	1,038	2	Jwalapur	47	1,334	2,067
14	Bharat Mata Temple	0	99	99	1	Sitapur	0	779	779

		Total	15,183	15,183			Total	14,530	14,530	
City Hospital-Daksh Temple Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2051										
City Hospital to Daksh Temple Direction					Daksh Temple to City Hospital Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	City Hospital	3,778	0	0	5	Daksh Temple	135	0	0	
2	Kankhal Chowk	82	673	3,778	4	Ganeshpuram	3,035	12	135	
3	Kankhal	39	805	3,187	3	Kankhal	1,119	35	3,158	
4	Ganeshpuram	13	2,309	2,421	2	Kankhal Chowk	721	102	4,243	
5	Daksh Temple	0	125	125	1	City Hospital	0	4,862	4,862	
Total		3,912	3,912		Total		5,010	5,010		
Valmiki Chowk-Laltaro Bridge Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2051										
Valmiki Chowk to Laltaro Bridge Direction					Laltaro Bridge to Valmiki Chowk Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Valmiki Chowk	1,410	0	0	2	Laltaro Bridge	1,423	0	0	
2	Laltaro Bridge	0	1,410	1,410	1	Valmiki Chowk	0	1,423	1,423	
Total		1,410	1,410		Total		1,423	1,423		
Ganeshpuram-DAV School Corridor Peak Hour Ridership for Poornima Day - Horizon Year 2051										
Ganeshpuram to DAV School Direction					DAV School to Ganeshpuram Direction					
Station No.	Station Name	Boarding	Alighting	Sectional Load	Station No.	Station Name	Boarding	Alighting	Sectional Load	
1	Ganeshpuram	1,814	0	0	3	DAV School	1,943	0	0	
2	Jagjeetpur	17	395	1,814	2	Jagjeetpur	435	18	1,943	
3	DAV School	0	1,437	1,437	1	Ganeshpuram	0	2,360	2,360	
Total		1,831	1,832		Total		2,378	2,378		

5.8 IMPACT OF SHIFTING OF CAR PARKINGS

Haridwar is a religious city. Therefore, environmental quality of the city has an important role. To maintain a better environmental quality and to reduce the pollution level, an additional option of shifting all the car parking from the city core to the two ends of the city has been considered. Only through traffic crossing the city will be allowed for cars. This will improve the air quality as well as city scape. However, this needs a lot of policy decision and enforcement. With this concept all car parking including Deen Dayal Parking, Pant Deep Parking, and Ram Ghat Parking etc. would be shifted at the two ends – Sitapur end and Motichur end of the city. All tourists coming by car or taxi from outside of Haridwar would have to park their vehicle at these two ends and travel by public transport or IPT to visit different religious places in Haridwar. On a normal day, average daily car parking at Deen Dayal Parking is around 350 and total car parking in Haridwar city is around 650. Therefore, around 2,600 daily tourists (as average occupancy of car is 4.05) will be shifted at the two ends of the city and will travel by proposed PRT to reach Har-Ki-Pauri. Again, they will ride the same mode to return to the parking lots at the two ends. This shows around 5,200 additional daily trips for the Sitapur – Har-Ki-Pauri or Motichur – Har-Ki-Pauri section with an increased PHPDT of around 250 passengers.

5.9 TRAFFIC SUMMARY OF OPTION-VII

Table 5-55: Proposed Haridwar PRT Ridership Summary for Normal Day – Option-VII

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger-km (km)	Average Trip Length (km)
2021	Sitapur - Bharat Mata Temple	14.55	54,608	1819	2,74,572	5.03
2021	City Hospital - Daksh Temple	3.11	16,295	858	26,877	1.65
2021	Valmiki Chowk - Laltaro Bridge	0.69	3,723	191	2,420	0.65
2021	Ganeshpuram - DAV School	2.38	7,015	366	13,336	1.90
2031	Sitapur - Bharat Mata Temple	14.55	84,449	2739	4,29,241	5.08
2031	City Hospital - Daksh Temple	3.11	26,671	1412	43,809	1.64
2031	Valmiki Chowk - Laltaro Bridge	0.69	5,612	283	3,648	0.65
2031	Ganeshpuram - DAV School	2.38	11,185	603	21,422	1.92
2041	Sitapur - Bharat Mata Temple	14.55	1,12,558	3681	6,46,088	5.74
2041	City Hospital - Daksh Temple	3.11	35,642	1892	73,400	2.06
2041	Valmiki Chowk - Laltaro Bridge	0.69	7,256	364	4,716	0.65
2041	Ganeshpuram - DAV School	2.38	14,372	776	32,148	2.24
2051	Sitapur - Bharat Mata Temple	14.55	1,45,939	4849	8,43,098	5.78
2051	City Hospital - Daksh Temple	3.11	45,574	2446	92,222	2.02
2051	Valmiki Chowk - Laltaro Bridge	0.69	9,393	471	6,105	0.65
2051	Ganeshpuram - DAV School	2.38	17,412	953	39,677	2.28

Table 5-56: Proposed Haridwar PRT Ridership Summary for Poornima (Mela) Day – Option-VII

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger-km (km)	Average Trip Length (km)
2021	Sitapur - Bharat Mata Temple	14.55	1,25,059	4393	5,12,459	4.10
2021	City Hospital - Daksh Temple	3.11	33,766	1812	56,012	1.66
2021	Valmiki Chowk - Laltaro Bridge	0.69	13,412	690	8,718	0.65
2021	Ganeshpuram - DAV School	2.38	16,821	905	33,227	1.98
2031	Sitapur - Bharat Mata Temple	14.55	1,71,530	5888	7,84,212	4.57
2031	City Hospital - Daksh Temple	3.11	52,457	2828	86,334	1.65
2031	Valmiki Chowk - Laltaro Bridge	0.69	16,656	836	10,826	0.65
2031	Ganeshpuram - DAV School	2.38	25,827	1427	51,140	1.98
2041	Sitapur - Bharat Mata Temple	14.55	2,28,185	7894	11,73,564	5.14
2041	City Hospital - Daksh Temple	3.11	69,355	3741	1,43,913	2.08
2041	Valmiki Chowk - Laltaro Bridge	0.69	21,752	1090	14,139	0.65
2041	Ganeshpuram - DAV School	2.38	33,547	1857	77,786	2.32

Horizon Year	Corridor	Route Length (km)	Daily Ridership (Passengers)	PHPDT (Passengers)	Daily Passenger-km (km)	Average Trip Length (km)
2051	Sitapur - Bharat Mata Temple	14.55	2,97,100	10462	15,40,236	5.18
2051	City Hospital - Daksh Temple	3.11	89,220	4862	1,83,503	2.06
2051	Valmiki Chowk - Laltaro Bridge	0.69	28,337	1423	18,419	0.65
2051	Ganeshpuram - DAV School	2.38	42,092	2360	99,411	2.36

Table 5-57: Traffic Summary for PRT System in Haridwar City (Option-VII)

Parameters	2021	2031	2041	2051
Section Length (in km)	20.74	20.74	20.74	20.74
Daily Ridership including Induced Traffic on Normal Day	81,641	1,27,917	1,69,828	2,18,317
Average Trip Length including Induced Traffic on Normal Day (in km)	3.89	3.89	4.45	4.49
Daily Ridership on Mela (Poornima) Day	1,89,057	2,66,470	3,52,839	4,56,749
Average Trip Length for Mela (Poornima) Day (in km)	3.23	3.50	3.99	4.03
Weighted Average Daily Ridership with Induced Traffic	1,03,712	1,56,387	2,07,433	2,67,310
Weighted Average Trip Length with Induced Traffic (in km)	3.75	3.81	4.36	4.40

Note - Weighted Average Daily Ridership of PRT system in Haridwar has been calculated by considering 75 Mela Days and 290 Normal Days in a Year.

6 ANNEXURE

- I. Survey Formats
- II. Traffic Volume Count Summary

ANNEXURE-I

Traffic and Transport Study for preparation of DPR for PRT System in Haridwar City
Classified Traffic Volume Count Survey



Location : _____

Road Name : _____

Day & Date : _____

Name : _____

Direction : _____

Shift : _____

	Two Wheeler	Auto Rickshaw (Passenger - 3 Seater)	Tempo (Passenger - more than 3 Seater)	E-Rickshaw	Car/ Van/ Utility / Taxi	Mini Bus	Standard Bus		Cycle Rickshaw
							Public / Roadways	Chartered	
	1	2	3	4	5	6	7	8	9
:00									
to									
:15									
:15									
to									
:30									
:30									
to									
:45									
:45									
to									
:00									
Total									

Traffic & Transportation Study for Preparation of DPR for PRT System in Haridwar City


Traffic and Transport Study for preparation of DPR for PRT System in Haridwar City
Mode-wise Occupancy Survey



Location : _____
Name : _____


Road Name : _____
Direction : _____

Day & Date : _____
Shift : _____










	Two Wheeler	Auto Rickshaw (Passenger - 3 Seater)	Tempo (Passenger - more than 3 Seater)	E-Rickshaw	Car/ Van/ Utility / Taxi	Mini Bus	Standard Bus		Cycle Rickshaw
							Public / Roadways	Chartered	
	1	2	3	4	5	6	7	8	9
									
:00 to :15									
:15 to :30									
:30 to :45									
:45 to :00									
Total									

Traffic & Transportation Study for Preparation of DPR for PRT System in Haridwar City

Traffic and Transport Study for preparation of DPR for PRT System in Haridwar City
Mode-wise Occupancy Survey



Location : _____ Road Name : _____ Day & Date : _____
 Name : _____ Direction : _____ Shift : _____

	Two Wheeler	Auto Rickshaw (Passenger - 3 Seater)	Tempo (Passenger - more than 3 Seater)	E-Rickshaw	Car/ Van/ Utility / Taxi	Mini Bus	Standard Bus		Cycle Rickshaw
							Public / Roadways	Chartered	
	1	2	3	4	5	6	7	8	9
									
:00 to :15									
:15 to :30									
:30 to :45									
:45 to :00									
Total									

ANNEXURE-II

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MB1

Location Name : Sanjay Colony

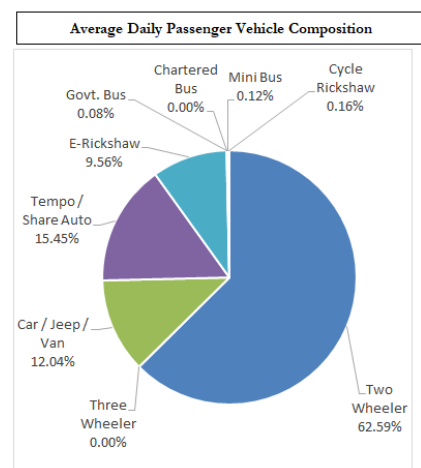
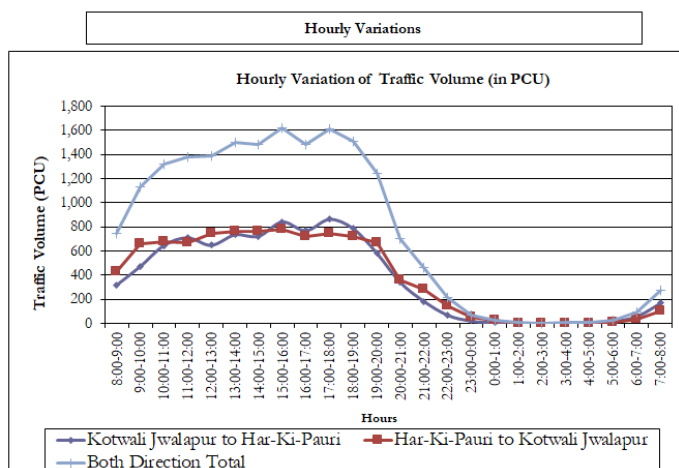
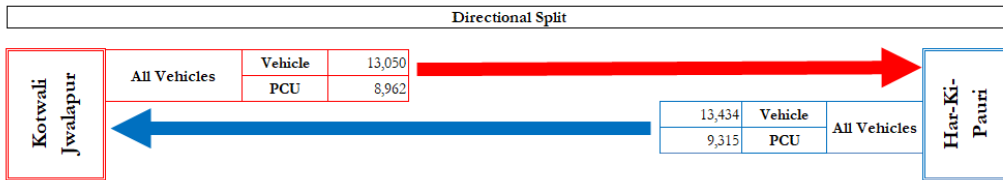
Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles											
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Sunday	16,189	0	3,266	4,313	2,752	0	0	13	29	26,562	18,489
Monday	17,151	0	3,229	4,018	2,327	34	0	39	36	26,834	18,364
Tuesday	16,310	0	3,083	3,991	2,562	29	0	38	57	26,070	18,021

Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	Kotwali Jwalapur to Har-Ki-Pauri	8,252	0	1,643	1,890	1,220	11	0	14	20	13,050	8,962
Direction-2	Har-Ki-Pauri to Kotwali Jwalapur	8,324	0	1,544	2,203	1,312	12	0	17	22	13,434	9,315
Both Directions		16,576	0	3,187	4,093	2,532	23	0	31	42	26,483	18,277

Peak Hour Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	Kotwali Jwalapur to Har-Ki-Pauri	841	0	176	152	136	0	0	1	1	1,308	889
Direction-2	Har-Ki-Pauri to Kotwali Jwalapur	663	0	132	161	124	0	0	1	1	1,081	750
Both Directions		1,504	0	308	312	260	0	0	2	2	2,389	1,639

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	88%	86%
Inter Day Variation	1%	1%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,389	1,639
Total Traffic	26,483	18,277
Peak Hour (%)	9.02%	8.97%
Peak Hour	17:30-18:30	



Mode-wise Average Occupancy Summary for All Vehicles									
Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw
Kotwali Jwalapur to Har-Ki-Pauri	1.53		3.79	4.18	4.06	50.00		12.54	1.50
Har-Ki-Pauri to Kotwali Jwalapur	1.64		3.76	4.53	4.07	42.36		13.45	1.50
Average Occupancy	1.59		3.77	4.36	4.06	46.18		12.99	1.50

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey Through Videography

Location No : MB2

Location Name : Auobindo Ashram

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles											
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.5	1	1	1	1	3	3	1.5	1.5		
Sunday	19,639	0	3,913	2,945	2,066	1	15	5	468	29,052	19,501
Monday	19,716	0	3,827	3,170	2,013	1	13	2	473	29,215	19,623

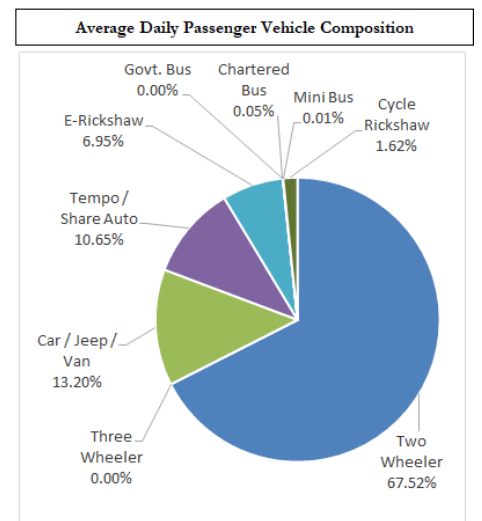
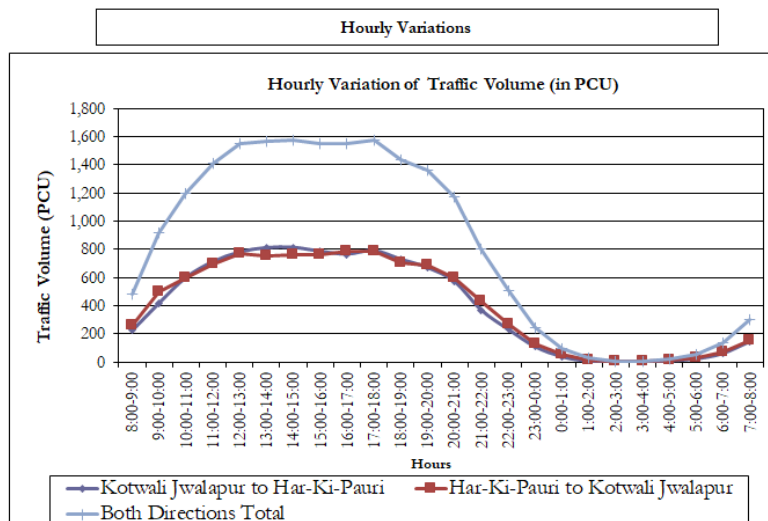
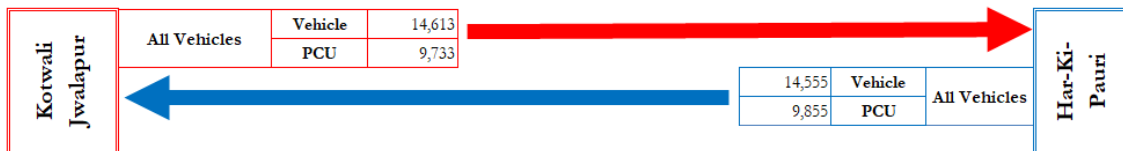
Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.5	1	1	1	1	3	3	1.5	1.5		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	10,010	0	1,889	1,495	995	0	8	1	215	14,613	9,733
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	9,684	0	1,963	1,611	1,033	1	6	1	256	14,555	9,855
Both Directions	19,694	0	3,852	3,106	2,028	1	14	3	472	29,168	19,588

Peak Hour Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	821	0	156	112	89	0	0	0	16	1,194	792
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	741	0	160	122	92	0	0	0	29	1,144	788
Both Directions	1,562	0	316	234	181	0	0	0	45	2,338	1,580

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	80%	79%
Inter Day Variation	0%	0%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,338	1,580
Total Traffic	29,168	19,588
Peak Hour (%)	8.02%	8.06%
Peak Hour	17:00-18:00	

Directional Split



CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MB3

Location Name : Rishikul

Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Thursday	15,755	0	4,416	8,011	1,792	221	43	149	143	30,530	23,327
Friday	14,730	0	4,915	6,668	1,607	286	44	186	171	28,607	22,081
Saturday	16,776	0	4,580	7,888	1,718	329	48	173	286	31,798	24,394

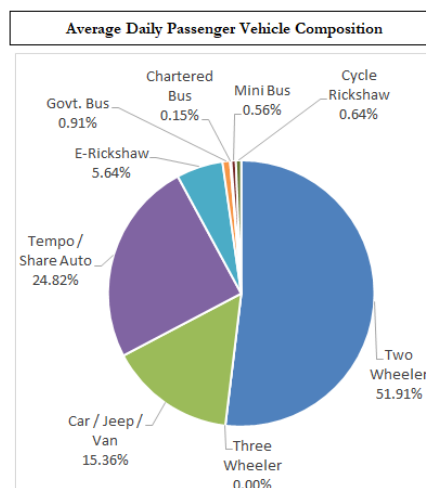
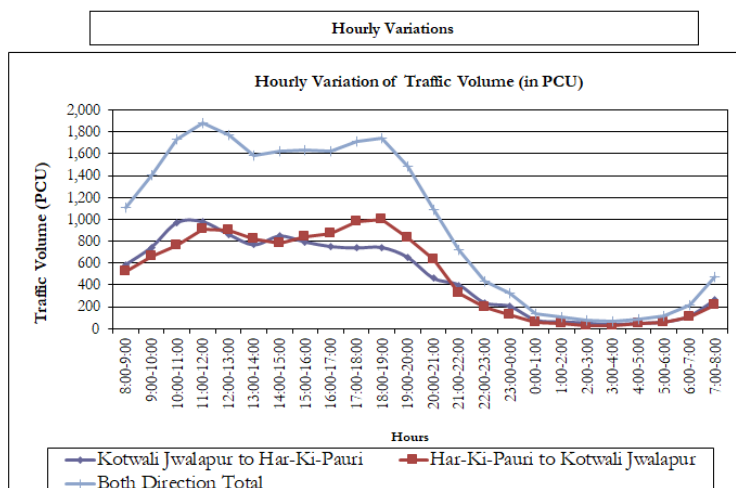
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	7,706	0	2,246	3,860	730	139	21	81	108	14,891	11,453
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	7,975	0	2,395	3,636	975	136	24	88	86	15,314	11,734
Both Directions	15,681	0	4,641	7,496	1,705	275	45	169	194	30,206	23,186

	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	749	0	154	330	60	12	0	5	10	1,321	979
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	551	0	169	319	92	12	1	4	4	1,151	907
Both Directions	1,300	0	323	649	151	25	1	9	14	2,472	1,885

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	74%	72%
Inter Day Variation	5%	5%

Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,472	1,885
Total Traffic	30,206	23,186
Peak Hour (%)	8.19%	8.13%
Peak Hour	11:00-12:00	

Directional Split



Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw
Kotwali Jwalapur to Har-Ki-Pauri	1.53		5.23	4.72	4.05	46.33	41.00	12.92	1.67
Har-Ki-Pauri to Kotwali Jwalapur	1.49		3.55	4.63	4.07	42.36		13.45	1.50
Average Occupancy	1.51		4.39	4.68	4.06	44.35	41.00	13.19	1.58

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey Through Videography

Location No : MB4

Location Name : Haridwar Railway Station

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles											
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.5	1	1	1	1	3	3	1.5	1.5		
Sunday	13,500	0	1,900	6,303	3,815	237	78	56	3,580	29,469	25,167
Monday	13,305	0	1,697	6,530	3,613	142	114	80	2,655	28,136	23,363
Tuesday	13,595	0	1,678	6,843	3,235	56	10	14	2,855	28,286	23,055

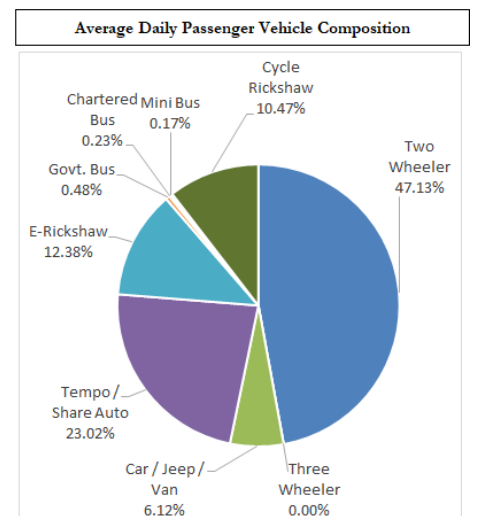
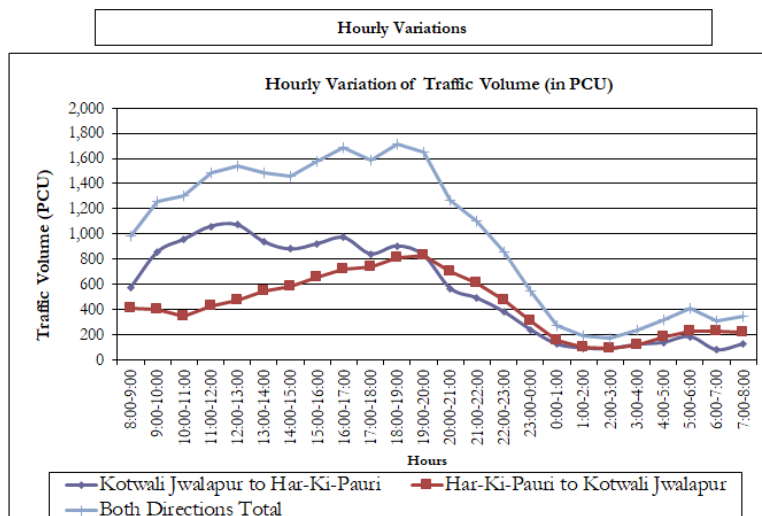
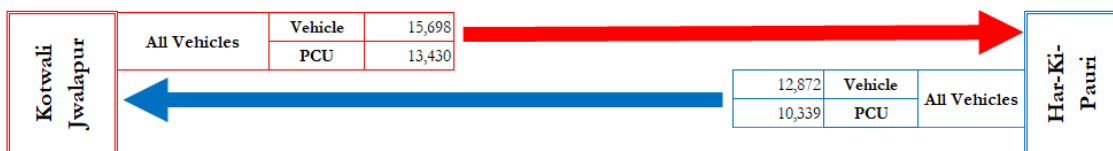
Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.5	1	1	1	1	3	3	1.5	1.5		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	6,387	0	1,021	4,476	2,293	64	46	25	1,385	15,698	13,430
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	7,078	0	727	2,101	1,242	75	21	24	1,606	12,872	10,339
Both Directions	13,464	0	1,748	6,577	3,536	138	67	50	2,991	28,570	23,768

Peak Hour Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Har-Ki-Pauri	549	0	73	254	197	0	0	1	71	1,144	905
Direction-2 Har-Ki-Pauri to Kotwali Jwalapur	606	0	46	194	120	0	0	1	97	1,064	810
Both Directions	1,155	0	119	448	317	0	0	2	167	2,208	1,716

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	64%	58%
Inter Day Variation	3%	5%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,208	1,716
Total Traffic	28,570	23,768
Peak Hour (%)	7.73%	7.22%
Peak Hour	18:00-19:00	

Directional Split



CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MB5

Location Name : Har-Ki-Pauri

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles											
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Thursday	8,432	0	77	52	745	0	0	25	1,883	11,214	7,952
Friday	7,317	0	90	73	674	0	0	26	1,532	9,712	6,833
Saturday	9,074	0	67	70	672	0	0	20	1,566	11,469	7,725

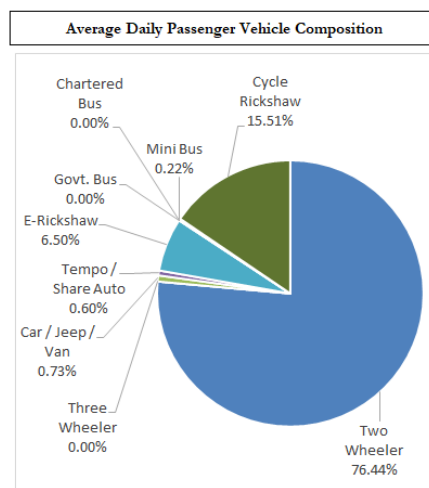
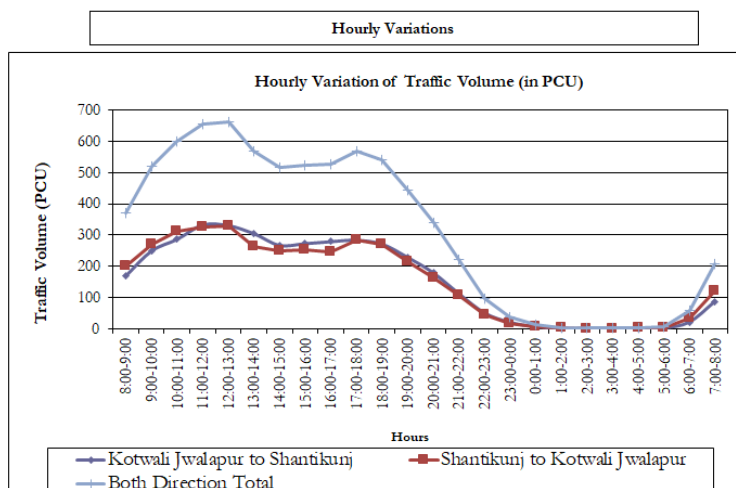
Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Shantikunj	4,112	0	41	32	356	0	0	12	841	5,394	3,764
Direction-2 Shantikunj to Kotwali Jwalapur	4,105	0	38	32	343	0	0	12	826	5,357	3,723
Both Directions	8,217	0	79	65	699	0	0	24	1,667	10,750	7,487

Peak Hour Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Shantikunj	319	0	2	1	32	0	0	0	100	454	345
Direction-2 Shantikunj to Kotwali Jwalapur	337	0	1	2	26	0	0	1	94	460	339
Both Directions	656	0	3	3	58	0	0	1	194	915	684

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	78%	81%
Inter Day Variation	9%	8%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	915	684
Total Traffic	10,750	7,487
Peak Hour (%)	8.51%	9.14%
Peak Hour	11:15-12:15	

Directional Split



Mode-wise Average Occupancy Summary for All Vehicles										
Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	
Kotwali Jwalapur to Shantikunj	1.54		5.70	5.00	4.33			14.63	1.23	
Shantikunj to Kotwali Jwalapur	1.55		5.22	5.00	4.37			11.86	1.54	
Average Occupancy	1.55		5.46	5.00	4.35			13.24	1.39	

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MB6

Location Name : Vaidic Mohan Ashram

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles											
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Thursday	8,522	7	1,812	2,616	1,308	12	9	36	31	14,353	10,168
Friday	6,731	0	2,106	2,029	1,031	7	14	48	68	12,034	8,769
Saturday	9,555	0	1,768	2,584	1,208	11	13	41	61	15,241	10,563

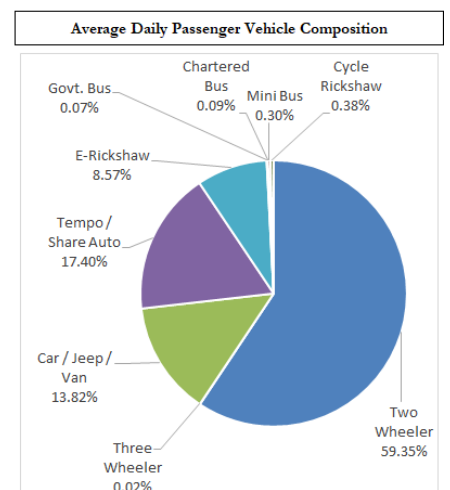
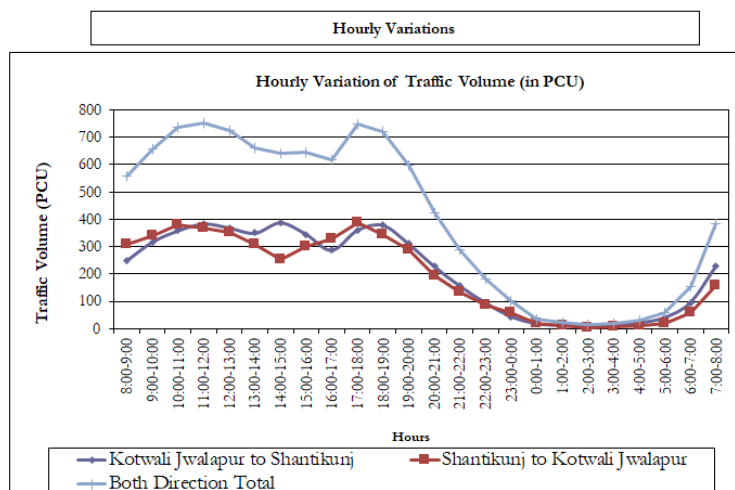
Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Shantikunj	4,257	0	1,000	1,214	628	5	6	18	23	7,151	5,064
Direction-2 Shantikunj to Kotwali Jwalapur	3,920	3	905	1,183	552	5	6	23	30	6,628	4,717
Both Directions	8,178	3	1,904	2,397	1,181	10	12	42	53	13,779	9,781

Peak Hour Classified Traffic Volume Summary for All Vehicles											
	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1 Kotwali Jwalapur to Shantikunj	313	0	53	110	65	0	1	1	2	546	393
Direction-2 Shantikunj to Kotwali Jwalapur	305	0	47	107	56	1	2	1	4	524	379
Both Directions	618	0	101	217	122	1	3	2	5	1,069	772

Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	73%	71%
Inter Day Variation	12%	10%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	1,069	772
Total Traffic	13,779	9,781
Peak Hour (%)	7.76%	7.90%
Peak Hour	10:30-11:30	

Directional Split



Mode-wise Average Occupancy Summary for All Vehicles									
Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw
Kotwali Jwalapur to Shantikunj	1.65		3.70	4.61	4.19	43.33	48.00	14.15	1.00
Shantikunj to Kotwali Jwalapur	1.52		3.52	4.72	4.05	46.33	41.00	12.92	1.67
Average Occupancy	1.58		3.61	4.67	4.12	44.83	44.50	13.54	1.33

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MB7

Location Name : Gandhi Park

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles												
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs	
PCU Factors	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50			
Sunday	17,365	0	9,672	504	260	29	4	25	9	27,868	19,269	
Monday	18,315	0	10,596	375	176	34	9	88	7	29,600	20,576	
Tuesday	17,884	0	10,180	483	249	45	12	75	15	28,943	20,160	

Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
PCU Factors		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	BHEL to Rishikul	9,110	0	5,101	227	105	22	8	33	5	14,611	10,135
Direction-2	Rishikul to BHEL	8,779	0	5,083	224	121	14	1	33	5	14,260	9,919
Both Directions		17,890	0	10,183	450	226	37	9	65	10	28,871	20,054

Peak Hour Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
PCU Factors		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	BHEL to Rishikul	980	0	440	19	10	0	1	1	1	1,452	966
Direction-2	Rishikul to BHEL	739	0	410	32	16	1	0	2	0	1,199	832
Both Directions		1,719	0	850	51	25	1	1	2	1	2,651	1,797

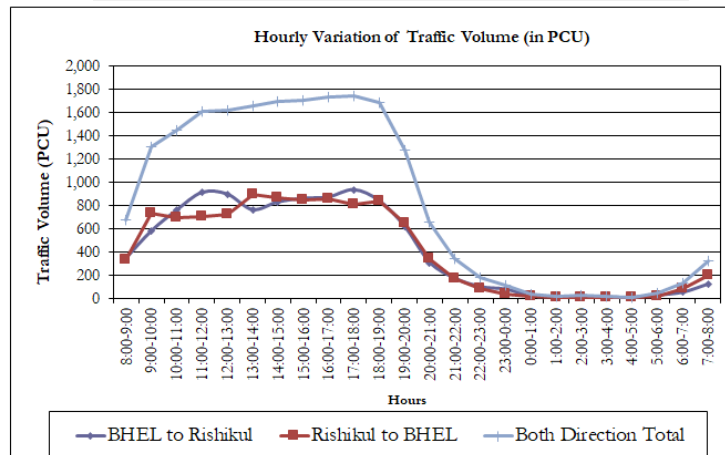
Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	88%	87%
Inter Day Variation	3%	3%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,651	1,797
Total Traffic	28,871	20,054
Peak Hour (%)	9.18%	8.96%
Peak Hour	16:30-17:30	

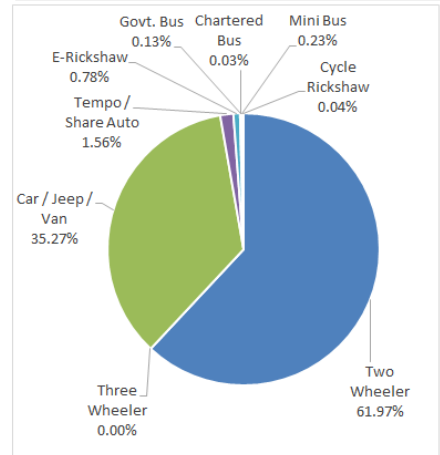
Directional Split



Hourly Variations



Average Daily Passenger Vehicle Composition



Mode-wise Average Occupancy Summary for All Vehicles									
Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw
BHEL to Rishikul	1.52		3.52	4.38	3.76	41.45	39.64	13.44	2.00
Rishikul to BHEL	1.53		3.47	5.34	5.98	45.42		13.27	
Average Occupancy	1.53		3.49	4.86	4.87	43.44	39.64	13.36	2.00

CLASSIFIED TRAFFIC VOLUME COUNT AT MID-BLOCK

Classified Traffic Volume Count Survey

Location No : MBS

Location Name : Laksar Road (Abhisek Nagar)

Three Days (24 Hours of Each Day) Classified Traffic Volume Summary for All Vehicles												
Days (Both Directions)	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs	
<i>PCU Factors</i>	0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50			
Sunday	18,927	0	6,617	1,953	2,637	39	50	86	51	30,360	21,143	
Monday	19,401	0	7,534	2,367	2,363	64	71	90	53	31,943	22,584	
Tuesday	19,207	0	7,124	2,207	2,536	67	94	59	76	31,370	22,156	

Average Daily (24 Hours) Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	DAV School to Rishikul	9,816	0	3,755	1,152	1,301	32	43	41	28	16,167	11,442
Direction-2	Rishikul to DAV School	9,381	0	3,371	1,039	1,202	26	31	37	33	15,119	10,577
Both Directions		19,196	0	7,126	2,192	2,503	58	73	78	61	31,286	22,019

Peak Hour Classified Traffic Volume Summary for All Vehicles												
		Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	Total Vehicles	Total PCUs
<i>PCU Factors</i>		0.50	1.00	1.00	1.00	1.00	3.00	3.00	1.50	1.50		
Direction-1	DAV School to Rishikul	811	0	320	96	125	0	3	3	0	1,358	960
Direction-2	Rishikul to DAV School	1,052	0	311	73	104	3	4	1	2	1,550	1,040
Both Directions		1,862	0	631	168	229	3	7	4	2	2,908	2,000

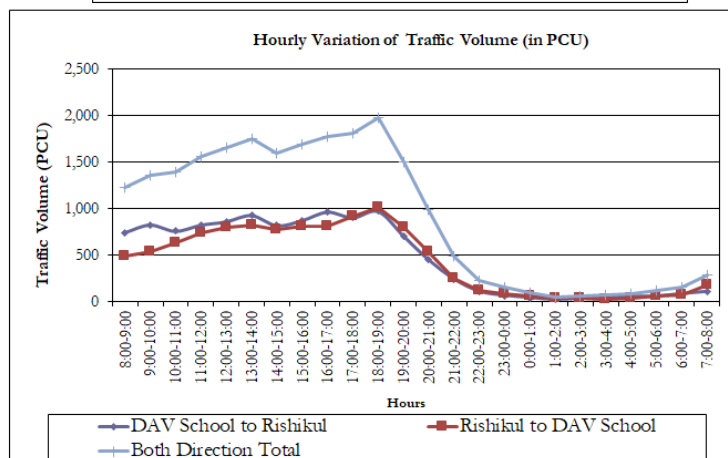
Intra and Inter Day Variations	Total Vehicles	Total PCUs
Intra Day Variation	83%	80%
Inter Day Variation	3%	3%

Peak Hour Characteristics		
Characteristics	Vehicles	PCUs
Peak Hour Traffic	2,908	2,000
Total Traffic	31,286	22,019
Peak Hour (%)	9.29%	9.08%
Peak Hour	17:45-18:45	

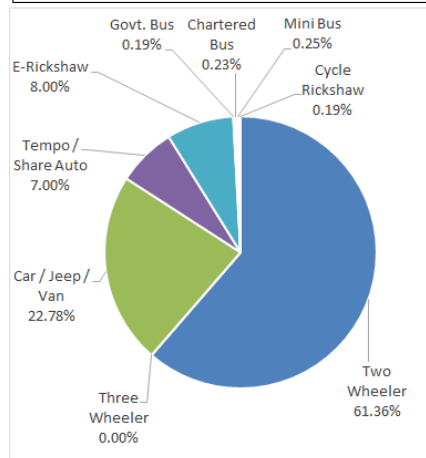
Directional Split



Hourly Variations



Average Daily Passenger Vehicle Composition



Mode-wise Average Occupancy Summary for All Vehicles										
Both Directions	Two Wheeler	Three Wheeler	Car / Jeep / Van	Tempo / Share Auto	E-Rickshaw	Govt. Bus	Chartered Bus	Mini Bus	Cycle Rickshaw	
DAV School to Rishikul	1.49		3.55	4.63	3.90	39.32	50.00	13.31	1.00	
Rishikul to DAV School	1.66		3.55	4.56	4.08	38.20	45.55	13.17	1.00	
Average Occupancy	1.58		3.55	4.60	3.99	38.76	47.78	13.24	1.00	