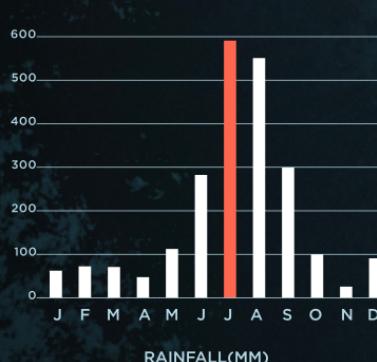
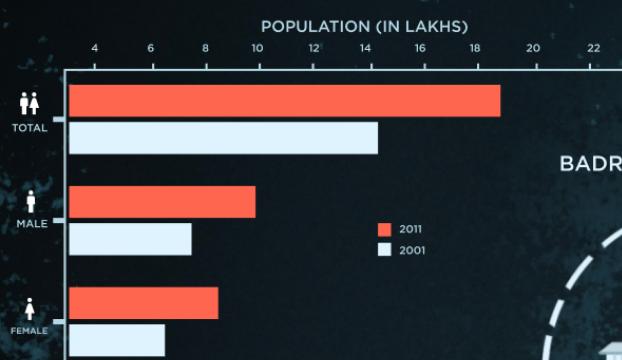


INTRODUCTION

Haridwar serves as the Gateway to the Char Dhams of Uttarakhand and Dev Bhoomi. The 'Panch Tirth' or the five pilgrimages located within the periphery of Haridwar, are Gangadwara (Har Ki Pauri), Kushwartz (Ghat), Kankhal, Bilwa Tirtha (Mansa Devi Temple), and Neel Parvat (Chandi Devi). Haridwar is also one of the four places; where Kumbh Mela occurs after rotation of every twelve years and Ardh Kumbh after every six years.



SITE JUSTIFICATION

Haridwar has not only remained the abode of the weary in body, mind, and spirit but also served as a center of attraction for learning the arts, science, and culture. Haridwar has a long-standing position as an excellent source for Ayurvedic medicines and herbal remedies and its unique Gurukul school system of traditional education. Rajaji National Park is just 10 km from Haridwar and is an ideal destination for wildlife and adventure lovers.

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Therefore, Haridwar's bus terminal is a relevant selection since it must cater to heavy footfall throughout the year.

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STAKEHOLDERS



PASSENGERS

Sages
Religious tourists
Foreign tourists
Students
Labourers
Residents



EMPLOYEE

Drivers Conductors Office staff
Security staff Maintenance staff



VENDORS

Food stalls
Book stalls
Shops
Hawkers



ROUTES

Road towards West takes us to NH334 (Roorkee-Haridwar Road), Vaishno Devi Mandir, BHEL etc.

Road towards East takes us to Har ki Pauri Ghat, Shri Mansa Devi Temple, Kusha Ghat etc.



CORONAVIRUS

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus.

The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. These droplets are too heavy to hang in the air, and quickly fall on floors or surfaces.

You can be infected by breathing in the virus if you are within close proximity of someone who has COVID-19, or by touching a contaminated surface and then your eyes, nose or mouth.

Upon analysis of negative-stained SARS-CoV-2 articles by electron microscopy, researchers have determined the diameter of this virus to range between 60 nanometers (nm) to a maximum diameter of 140 nanometers (nm).

No segregation between employees, vendors and passengers.

The shopping area in the front attracts a crowd and leads to traffic jams.

Only a single concourse for both boarding and deboarding which leads to a greater crowd.

No distinction between the various types of bays

Common entry and exit for both buses and people.

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PAIN POINTS IN ORIGINAL HARIDWAR BUS TERMINUS

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PRE COVID ERA



BOARDING BAYS



MAIN CONCOURSE

COVID ERA



To prevent the spread of COVID-19:

Clean your hands often. Use soap and water, or an alcohol-based hand rub.

Maintain a safe distance from anyone who is coughing or sneezing.

Wear a mask when physical distancing is not possible.

Don't touch your eyes, nose or mouth.

Cover your nose and mouth with your bent elbow or a tissue when you cough or sneeze.

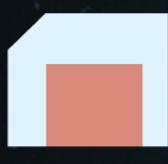
Important keywords keeping covid in mind :

Segregation

Sanitisation

Social distancing

Form Development



Existing bus terminus



Positioning done considering the sun path to avoid direct sunlight and maximum ventilation through natural air flow.



Segregation of Deboarding and Boarding bays to reduce crowd in the main concourse.



Addition of a separate sanitisation area



SANITIZATION
at regular intervals



ALWAYS
wear a mask in public places

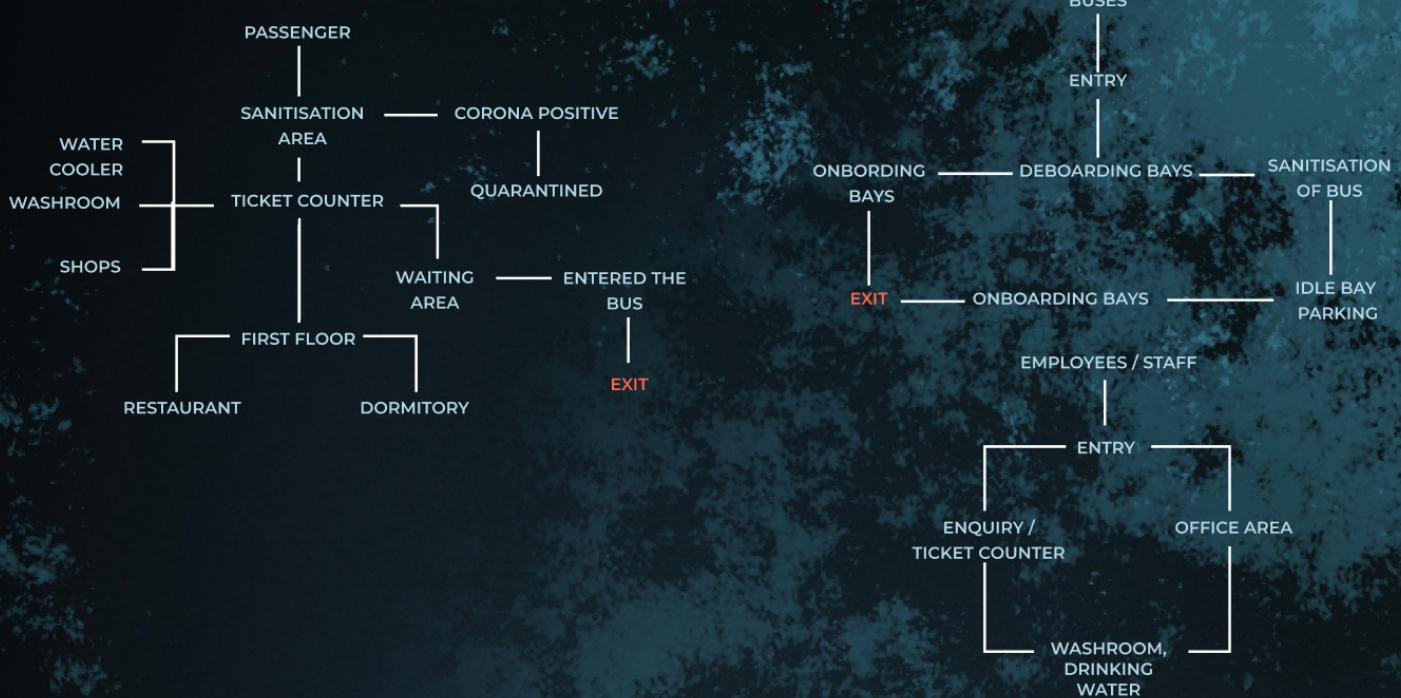
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CIRCULATION



VENTILATION

A naturally ventilated main concourse has been designed since the virus spreads more rapidly in a closed space.

The airflow is vertical to the circulation of passengers to reduce the chances of contamination.

CIRCULATION

The circulation of various stakeholders will be such that they come in contact as less as possible.

The circulation of the buses has been done to reduce retracing of a path.

MATERIALS

Furniture should not impede the cleaning process. Germs and dirt can collect in small crevices if rips, tears, or cracks have formed due to daily cleanings.

Sofas with solid surface arm caps make them easier to disinfect, while tandem seating with fewer legs or a bar system is easier to clean underneath.

Krion® solid surface, is a smooth material to the touch, similar to natural stone, which includes advanced properties that prevent the growth of bacteria and fungi. It is made up of two thirds of alumina trihydrate (ATH) powder – of high chemical purity – and one third advanced monomers, in addition to other additives that favor its application in sanitary interiors

SEGREGATION

It is an important design consideration during the COVID era since social distancing is an important preventive measure against Coronavirus.

The boarding and deboarding bays have been separated to reduce the crowd.

The main stakeholders of the terminus passengers, employees, and bus staff have been segregated such that their contact is reduced as much as possible.

A separate entrance has been given for passengers and employees to reduce contact.

A contactless ticket counter has been provided to avoid contamination.

The boarding and deboarding bays have been separated to reduce the crowd.

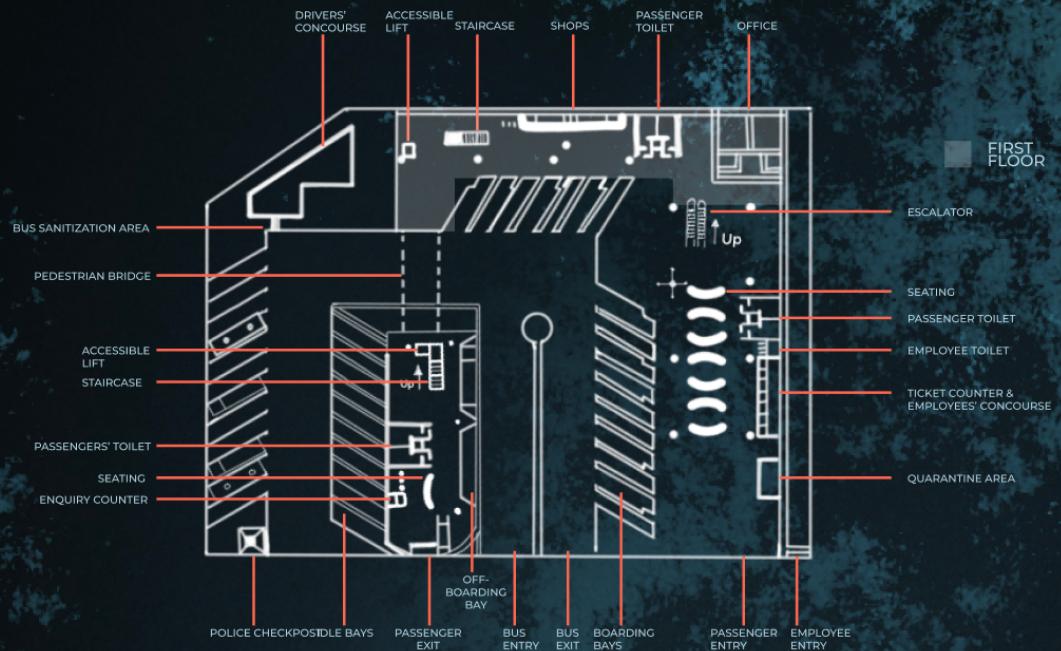
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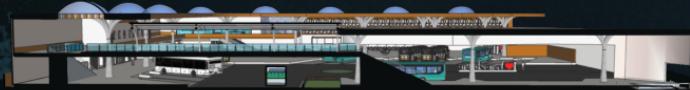
PLAN



SECTION I



SECTION II



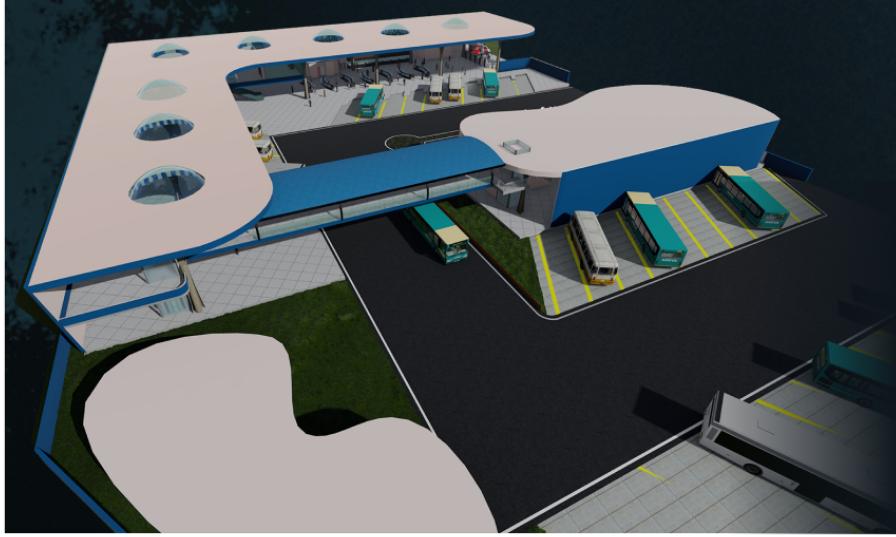
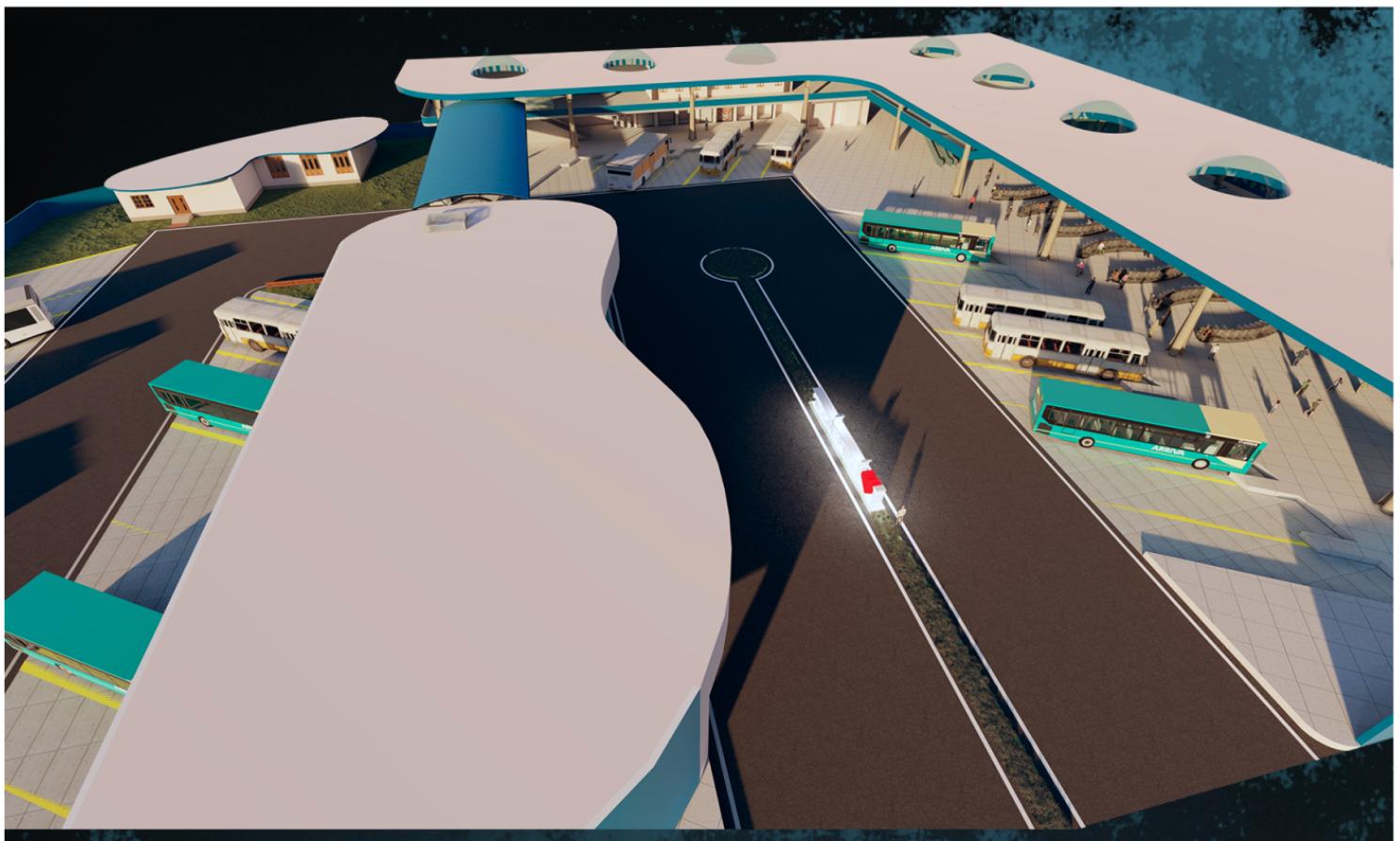
SECTION III

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