Environmental and Social Impact Assessment (ESIA)
&
Environmental and Social Management Plan (ESMP)

(Renovation and Modernization of the existing Infrastructure of the Sarnath Heritage Zone (SHZ)



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Uttar Pradesh Pro-Poor Tourism Development Project

DEPARTMENT OF TOURISM
GOVERNMENT OF UTTAR PRADESH

Consultants-

STC	**Shah Technical Consultants Pvt. Ltd.**

ABBREVIATIONS

CPCB	Central Pollution Control Board
DoT	Department of Tourism
DPR	Detailed Project Report
DUDA	District Urban Development Authority
EA	Environmental Assessment
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMF	Environmental and Social Management Framework
FGD	Focused Group Discussion
GAP	Gender Action Plan
GoI	Government of India
GoUP	Government of Uttar Pradesh
IR	Involuntary Resettlement
MoEF&CC	Ministry of Environment, Forests & Climate Change
NGO	Non-Governmental Organization
NMA	National Monuments Authority
OHS	Occupational Health and Safety
PAP	Project Affected Person
PCRMP	Physical Cultural Resources Management Plan
PWD	Public Works Department
R&R	Resettlement and Rehabilitation
RAP	Resettlement Action Plan
RTI	Right to Information Act
SEIAA	State Environment Impact Assessment Authority
SHZ	Sarnath Heritage Zone
SIA	Social Impact Assessment
SMP	Social Management Plan
SPCU	State Project Co-ordination Unit
STP	Sewerage Treatment Plant
TSU	Technical Support Unit
UPPCB	Uttar Pradesh Pollution Control Board
VDA	Varanasi Development Authority
WB	World Bank
WTP	Water Treatment Plant

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EXECUTIVE SUMMARY

Background. Sarnath has been developed as a place of pilgrimage, both for Buddhists from India and abroad. Sarnath is the most historical and Buddhist holy place in the Varanasi, popular among tourists for tourism for various religions like Buddhist, Jainism and Hinduism. It has so peaceful, clean and calm environment which provides lots of mind and body relaxation. A number of countries in which Buddhism is a major (or the dominant) religion, such as Thailand, Japan, Tibet, Sri Lanka, and Myanmar, have established temples and monasteries in Sarnath in the style that is typical for the respective country.

Currently, there is a strong association of the Buddha circuit of Sarnath with inbound tourism in India, but visitation along the Buddhist Circuit, Sarnath suffers from a number of hindrances that prevent the realization of its tourism potential. Major causes include lack of infrastructure facilities, and the undeveloped tourist experience. The roads in the core area (Dharampala Road, Rishipattan Road) are congested and chaotic. The road surface is particularly of low quality and patchy and cracked. There is no storm water drainage system in the core area and existing drains are poorly maintained. Water logging is a serious concern during heavy rains or any underground construction activity. Traffic congestion is particularly problematic at the junction of Rishipattan and Dharampala roads, where most tourist buses and cars arrive, park and depart. Three-wheelers also park in this area, due to the lack of a designated parking, further reducing the width of the road available for passage and worsening the traffic and people's safety and flows. The market lacks appeal and suffers from various problems including the disorganized parking in its pavement area, damaged pavements, and water clogging. Vendors are living and working in poor conditions with little access to infrastructure. They are facing problems of eviction, inability to access various government facilities, lack of facilities such as toilet, lighting, etc., lack of social security and other similar hurdles. In addition to that lack of storage, theft or damage to stock are common issues facing by vendors.

In order to take initiative, Department of Tourism, Government of Uttar Pradesh has decided to undertake renovation and modernization of the existing infrastructure of the Sarnath Heritage Zone (SHZ) as a part of the "BUDDHIST CIRCUIT" under the World Bank Pro-Poor Tourism Development Project so as to improve the aesthetics and visual appeal of the SHZ as well as enhanced tourist experience of the area for the potential visitors. Project aim to invest in improving the living condition and create livelihood opportunities for the poor communities living in the vicinity of these culturally rich sites, thereby protecting the State's heritage assets

Overview of the Subproject. The Subproject's construction items include:

- **Promenade Development** (Dharampala Road), including roads and sidewalks improvement, provision of street furniture and lighting, signage and interpretation of the sites, provision of basic services, provision of parking and traffic calming

infrastructure, basic services for tourism (water fountains, etc.), greening and landscaping and support to street vendors.

- **Last Mile Connectivity**, including roads and sidewalks improvement, basic services provision and street lighting.
- **Crossings and Gates**, including pavements, crossings and junction improvement, gates enhancement, signage, street lighting and furniture as required, provision of parking and traffic flows support, greening and landscaping.
- **Parking and Traffic** calming infrastructure, including access and parking development, street lighting and furniture as required, services for visitors and street vendors, CCTV & Wi-Fi access points, greening and landscaping.
- **Tourist Information/Interpretation Centre**, including building upgrading, services provision as required, greening and landscaping and signage.
- **Street Markets and Vendors**, including rehabilitation of structures and provision of improved carts and alike to street vendors, CCTV & Wi-Fi access points, street lighting and furniture as required, greening and landscaping, provision of basic services and facilities, support to street vendors for improving their products, business skills and income, declaration of street vending zones.

Specific objectives:

- The project supports the priorities of the Government of Uttar Pradesh and its Department of Tourism by contributing to refocusing tourism in a way that optimizes the state's assets in a sustainable manner while directly benefiting residents in both economic and non-economic terms.
- The project will contribute to inclusive growth by valuing and promoting the intrinsic assets of the poor in the project areas. As shown elsewhere, recognizing and supporting the cultural heritage of poor and excluded individuals through pro-poor tourism schemes can energize communities, enhance livelihoods and bring about major improvements in self-esteem. The project will do so by promoting endogenous job opportunities for entrepreneurs living near selected tourist attractions, with an emphasis on increasing income generation opportunities for women and youth.
- Finally, the project contributes to end extreme poverty and promote shared prosperity by focusing on improving the living conditions of and job opportunities to poor communities near main tourist attractions in heritage-rich but low-income areas and maintain the sacred importance in this areas locally as well as internationally.

Categorization: The screening of the subproject activities/interventions were made based on the procedures laid down in Environment and Social Management Framework of UP Pro-Poor Tourism Development Project using the approved checklist. The screening process identified that the subproject activities will fall under Category B, requiring the preparation of ESIA and RAP.

Preparation of ESIA. The Subproject is designed and implemented in accordance with the Environmental and Social Management Framework (ESMF) of Pro-Poor Tourism Development Project, which is approved by the World Bank and in line with the current laws of India and Govt of Uttar Pradesh. The purpose of ESIA is to identify the importance of environmental and social issues in the decision-making process by assessing environmental and social consequences of the proposed research before undertaking the project activities. Early identification and characterization of important environmental and social impacts will help communities and governments assess potential environmental and social impacts of the proposed subproject and apply mitigation measures to minimize the risk of such effects. The activities during the preparation, construction and operation of the Subproject are analyzed, evaluated and proposed to prevent and minimize impacts on environment and living of local residents. The results from screening of proposed interventions meet the project criteria and the Subproject is classified as category B in terms of environment and social. Based on the screening activity, this scheme falls in "Low Impact" as there is no requirement to acquire private land for the proposed restoration/renovation works of the project and no eco-sensitive areas (National Parks, Wildlife sanctuary, Reserved Forest) identified within the subproject areas or its immediate vicinity. As subproject are within/near ASI protected areas that is excavated remains and Chaukhandi Stupa, therefore special measures will be required during construction to avoid vibration and others hazardous impacts on the monuments and their sites. Necessary permission will be required from NMA, ASI prior commencement of works.

Secondly, adverse impacts identified during screening is temporary in nature and in-turn is going to help hawkers and vendors in long run as they will be provided improved locations (vending zones) for their day to day businesses. Environmental impact is very limited that can be easily mitigated through implementation of ESMP. Overall all the subprojects proposed in Sarnath is feasible from social and environmental point of view. It also triggers 04 safeguard policies, including OP 4.01, (Environmental Assessment) OP 4.11(Physical Cultural Resources) OP 4.12(Involuntary Resettlement) and OP 4.04(Natural Habitats).

Environmental and Social impacts and mitigation measures: Subproject impacts are both positive and negative impacts.

Positive impacts after post construction: Development and Rehabilitation works of proposed sites will provide better livelihood opportunities to the locals. Local traditions and customs are kept alive because tourists enjoy traditional shows. Money from tourists can be used to protect the historical monuments and natural landscape. Facilities developed like Parking, Road, Toilets, drinking water etc. will be benefitted for both tourist as well as locals. As tourist influx will be more than Greater demand for local food and crafts. The support to the street vendors through the provision of (i) dedicated vending spaces within the core area, (ii) gender sensitive basic services, (iii) enhanced carts and (iv) identity cards are expected not only to improve their overall working conditions and increase their

livelihood opportunities, but also to uplift their status from unauthorized vendors to local entrepreneurs. The proposed traffic management measures are expected to contribute to improve traffic and pedestrian flows, safety and quality in the target area. The establishment of the Visitor Centre, adequate parking, tourist services and interpretation are expected to improve visitors understanding of Sarnath's history, making their visit more transformational.

Negative impacts in the construction phases: Potential negative impacts include temporary impacts during construction activities including dust, noise and increased vehicle traffic, and lighting during night time hours. In addition to that due to the excavation work in the sites, there will be a disturbance in the traffic movement. Visitors to the monument will suffer more inconvenience during the excavation period than that during construction. Secondly, temporarily livelihood impacts will be on roadside vendors, hawkers, kiosks during development of infrastructures facilities of Dharampala road, Rishipattan road and Munnari Road. Although vending zones will be developed under this subproject and all the vendors will be accommodated in the vending zones.

Proposed mitigation measures for negative impacts during the preparation and construction phases: Involuntary resettlement impacts will be minimized through RAP while construction related impacts will be mitigated through site-specific mitigation measure. As construction activity is proposed within 100 meter of the ASI protected Monuments, proposal has been shared with ASI for permission of proposed works. The generation of waste from construction activities and the waste generated from labour camp i.e. domestic waste, both type of waste will be disposed off in an environment friendly manner, the construction waste especially debris from excavation/repair works will be disposed in earmarked place or low lying areas in consultation with local bodies and the domestic waste from labour camps which will be biodegradable will be managed by buried in a pit and recyclable waste will be collected separately in waste bins/containers. All the rules and regulations of waste management such as Construction & Demolition (C&D) waste management Rules, 2016 and Solid Waste Management Rules, 2016 will strictly adhered and comply accordingly.

Institutional arrangement: The Directorate of Tourism, Government of Uttar Pradesh, has been engaged Shah Technical Consultants Private Limited, Mumbai for Consulting Services for Preparation of Environmental & Social Safeguards Documents and Monitoring of Compliances of proposed subprojects in Sarnath (District Varanasi) of Uttar Pradesh. Project support consultants to conduct monitoring and regular supports of project activities. They will assess the compliance with the safeguard policies and the implementation of the tools in practice. For this Subproject, the consultant is responsible for the implementation of compliance and monitoring of implementation of recommendations from the ESMP, ensuring that tenders and contracts include environmental covenants for Contractors' compliance. The Contractors will carry out construction activities and comply with environmental covenants in the contracts. The

State Project Coordination Unit (SPCU) and its Consultants will monitor the compliance with the mitigation measures agreed with the Contractors. In addition, the Contractors' compliance will be closely monitored by the Varanasi Development Authority (VDA). Technical Support Unit – TSU) based in Sarnath will be a part of the Varanasi Development Authority will support them in the day-to-day execution of its subprojects.

Capacity building: In order to achieve the objective, the specialists at SPCU with support from consultant will provide training to TSU and VDA and staffs of contractor on compliance with environmental and social safeguard policies of the project, including 04 safeguard policies, including OP 4.01, (Environmental Assessment) OP 4.11(Physical Cultural Resources) OP 4.12(Involuntary Resettlement) and OP 4.04(Natural Habitats), General Guidelines for Environment, Health and Safety (EHS). During the implementation of the subproject, training on environmental safeguard policies for the contractor EHS staff will be carried out regularly to update them on relevant information.

The Grievance Redress Mechanism (GRM): A project-specific, two-tier grievance redress mechanism (GRM) covers both environment and social issues. The GRM will be established to receive, evaluate, and facilitate the resolution of affected persons' concerns, complaints, and grievances about the social and environmental performance at project level. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns related to the project. Affected persons will have the flexibility of conveying grievances/suggestions by mail/courier/telephonic/by phone and dropping grievances in project office box.

Community consultation: Many different methods and techniques have been used to conduct community consultations, including a) community meetings, b) household surveys, c) focus group discussions, field monitoring and key informant interviews. The use of these methods and techniques is to improve the reliability and effectiveness of feedbacks from the subproject stakeholders, especially the locally-affected people and to ensure that (i) the affected households receive full information about the Subproject; and (ii) all affected households are involved in the free and informed consultation process during the preparation and implementation process. Furthermore, consultations will be conducted throughout the construction period to address issues related to assessing environmental and social impacts in a timely manner.

Information disclosure: In compliance with OP 4.01 policy and the World Bank's policy on access to information, the summary of ESMP will be translated into local language and will be shared with the affected community. The English and translated version of ESMP will be disclosed on the website of Department of Tourism. ESIA will be disclosed on the project website in Department of Tourism, Uttar Pradesh and the WB external website.

Conclusion. The Subproject: " Renovation and Modernization of the existing Infrastructure of the Sarnath Heritage Zone (SHZ)" of Sarnath may cause negative

impacts in the implementation phases, however, due to the small size of construction works, short-term impacts, limit in small area, impacts are negligible, therefore mitigation measures that are appropriate to the natural, socio-economic and management and construction conditions in the localities were proposed.

The management and environmental and social plans are set up to ensure that the subproject implementation complies with environmental, social, health and safety requirements in accordance with World Bank's safeguard policy requirements and current relevant laws of the Government of India and Uttar Pradesh. Monitoring and compliance with environmental and social management plans help local authorities and people with regular update on the process of the subproject implementation. ESIA consultant will support the line agency-VDA to regularly monitor the subproject's environmental and social compliance and submission compliance report to SPCU for onward submission to world bank.

CHAPTER 1. INTRODUCTION

1.1 PROJECT BACKGROUND

Tourism is an important market potential for local entrepreneurs and an engine for local sustainable economic development. It is a powerful tool for growth in developing countries. Tourism not only provides material benefits for the poor, but can also bring cultural pride, a sense of ownership and control, reduced vulnerability through diversification and the development of skills and entrepreneurial capacity. Tourism should be assessed objectively against other opportunities for pro-poor economic growth.

The Buddhist Circuit presents an opportunity for the development and growth of tourism, supporting industries and the economy/community at large. Improvement in infrastructures can generate large-scale employment. There is an opportunity for the participation of the local community, which must be involved for the upliftment of the poor economic conditions and create sustainable tourism in the state. Development of infrastructure, product/experience, amenities, connectivity, marketing, and promotion will lead to the development of the circuit as a year round easily accessible circuit appealing to a wide range of tourist groups.

Sarnath in Varanasi district, have been tied into a travel circuit over the past decades, are now receiving the impetus that can turn the circuit into an international travel destination creating an opportunity for the tourism industry and the community at large. The locations that were significant in the life of Buddha such as Lumbini, his birthplace, Bodhgaya, where he attained enlightenment, and Sarnath where he delivered his first sermon were later marked by his disciples and became centres for imparting the teachings of Buddhism. The Buddhist Circuit presents a unique opportunity to promote tourism focusing on multiple elements such as spiritualism, religion, history, archaeology, education, leisure and wellness, with a huge prospect of expanding the target audience. Prime Minister of India has also announced for developing world-class amenities on the Sarnath-Gaya Varanasi Buddhist Circuit as a priority to boost tourism in the country.

For implementation of vision of Prime Minister of India, The Government of Uttar Pradesh (UP) is seeking financial support from the World Bank to do three things; (a) unlock the tourism potential of the State by addressing the factors responsible for its less than adequate state; (b) improve the living conditions of the poor in the city by provisioning of basic services and infrastructure and contributing to the creation of jobs and opportunities for livelihoods, by directly including the poor in the sector; and (c) protect the State's tangible and intangible cultural heritage by including people in the process of tourism. The Project is also in alignment with India’s 12th Five-Year Plan that recognizes pro-poor tourism as a means of poverty reduction.

The project supports the state’s plans for restructuring its tourism sector in a pro-poor manner with a view to increasing benefits to local communities and improving the management of its tourism destinations. The pro-poor approach adopted by the project also aims at catalyzing the impact of key sectors in a given area, such as

accessibility/connectivity, environmental preservation, asset management and business development on local communities. The project will do so by promoting an integrated area-based approach in which tourist destinations and their iconic heritage assets are planned, promoted, served, stewarded and linked geographically. This area based approach also allows for improved understanding of a given area's potential and linkages with other industries, the strengthening of the skills of the local population, and the promotion of small-scale entrepreneurship, especially amongst poor women and youth.

The envisioned Uttar Pradesh Pro-Poor Tourism Development Project is one of the stepping stone to improve the living condition and create livelihood opportunities for the poor communities living in the vicinity of these culturally rich sites, thereby protecting the State's heritage assets.

Department of Tourism, Government of Uttar Pradesh has decided to undertake renovation and modernization of the existing infrastructure of the Sarnath Heritage Zone (SHZ) as a part of the "BUDDHIST CIRCUIT" under the World Bank Pro-Poor Tourism Development Project so as to improve the aesthetics and visual appeal of the SHZ as well as enhanced tourist experience of the area for the potential visitors.

Proposed interventions of Sarnath areas are as below:

- **Promenade Development (Dharampala Road),** including roads and sidewalks improvement, provision of street furniture and lighting, signage and interpretation of the sites, provision of basic services, provision of parking and traffic calming infrastructure, basic services for tourism (water fountains, etc.), greening and landscaping and support to street vendors.
- **Last Mile Connectivity,** including roads and sidewalks improvement, basic services provision and street lighting.
- **Crossings and Gates**, including pavements, crossings and junction improvement, gates enhancement, signage, street lighting and furniture as required, provision of parking and traffic flows support, greening and landscaping.
- **Parking and Traffic calming infrastructure**, including access and parking development, street lighting and furniture as required, services for visitors and street vendors, CCTV & Wi-Fi access points, greening and landscaping.
- **Tourist Information/Interpretation Centre**, including building upgrading, services provision as required, greening and landscaping and signage.
- **Street Markets and Vendors**, including rehabilitation of structures and provision of improved carts and alike to street vendors, CCTV & Wi-Fi access points, street lighting and furniture as required, greening and landscaping, provision of basic

services and facilities, support to street vendors for improving their products, business skills and income, declaration of street vending zones.

The objectives of this project are:

- The project supports the priorities of the Government of Uttar Pradesh and its Department of Tourism by contributing to refocusing tourism in a way that optimizes the state's assets in a sustainable manner while directly benefiting residents in both economic and non-economic terms.
- The project is consistent with India's 12th Five-Year Plan, which aims for faster, sustainable and more inclusive growth within a pro-poor perspective. The Plan acknowledges the significant potential of tourism to spur growth and reduce poverty, while also emphasizing the role of states in the development of tourism[1]. The project provides the tools and systems necessary for the state of Uttar Pradesh to apply a pro-poor tourism approach to unlock this potential in a demonstrative manner.
- The project is also aligned with and advances the World Bank's Country Partnership Strategy (CPS) for India, in both its engagement areas on spatial transformation and inclusive growth. The project will contribute to spatial transformation by improving living conditions for some of the state's poorest residents through the strategic provision of tourism-related infrastructure and services in an area-based manner and improve quality of life, energize local communities and provide job opportunities for poor people—particularly women and youth—living near the selected tourist attractions.
- The project will contribute to inclusive growth by valuing and promoting the intrinsic assets of the poor through establishment of creative indistry (Buddha Statue (soft-stone/mud, Handloom Sarees, Kala Namak Rice, Potato Snacks, Silk Brocade, Wooden Toys, Woollen Daris, Zardozietc) in the project areas. As shown elsewhere, recognizing and supporting the cultural heritage of poor and excluded individuals through pro-poor tourism schemes can energize communities, enhance livelihoods and bring about major improvements in self-esteem[2].
- Finally, the project contributes to end extreme poverty and promote shared prosperity by focusing on improving the living conditions of and job opportunities to poor communities near main tourist attractions in heritage-rich but low-income areas and maintain the sacred importance in this areas locally as well as internationally.

1.2 SCOPE OF THIS REPORT

[1] Twelfth Five Year Plan (2012–2017) Economic Sectors (Volume II), Government of India, 2013.
[2] Culture and Sustainable Development: A Framework for Action, World Bank, 2002.

The “Renovation and Modernization of the existing Infrastructure of the Sarnath Heritage Zone (SHZ) is one of identified subproject under this project. Preliminary Project Report for “Renovation and Modernization of the existing Infrastructure of the Sarnath,” has been prepared and approved by the Department of Tourism, GoUP. Therefore, scope of this report is limited to assess the environmental and social impacts of the components proposed under this project and to determine the specific measures to reduce, mitigate and/or offset potential adverse impacts during pre-construction, construction and operation phases of the project. This report focuses on Environmental and Social Impact Assessment (ESIA) associated with this sub project and later its management plan.

1.3 APPROACHES AND METHODOLOGIES

The Environmental and Social Impact Assessment (ESIA) will be implemented in accordance with the World Bank’s regulations and the Law on Environmental Protection and other laws and regulations of the Government of India and Uttar Pradesh. The purpose of the ESIA is to identify the importance of environmental and social issues in the decision-making process by assessing environmental and social consequences of the proposed research before undertaking the project activities. Early identification and characterization of important environmental and social impacts will help communities and governments assess potential environmental and social impacts of the proposed subproject and apply mitigation measures to minimize the risk of such effects.

1.4 METHODOLOGY FOR SOCIAL IMPACT ASSESSMENT

The objectives of the social assessment (SA), in parallel with the environmental assessment of the Subproject, include: First, it examines potential impacts of the subproject–positive and negative–on the basis of planned subproject activities. Second, it finds from the design of measures addressing potential adverse impact. For identified adverse impacts, consultation with local people, governmental agencies, project stakeholders, etc., were carried out to ensure that affected people will be appropriately compensated and supported in a manner that their socio-economic activities will be promptly and fully restored to the pre-project level, at least, and that their livelihoods will not be worse off, in the long run, as a result of the subprojects.

A part of the social assessment, screening (WB’s OP 4.10) was conducted in the subproject areas. The consultations with potential affected peoples were carried out in a free, prior, and informed manner to confirm supports for affected peoples when there is the subproject implementation. The screening was conducted based on WB’s OP 4.10 and implemented within the social assessment scope and area corresponding to the scope of the environmental assessment (according to OP 4.01). A gender analysis in the subproject area was also done as part of the SIA to understand gender features in the subproject area to enable gender mainstreaming to gender equality improvement and to enhance further development effectiveness of the subprojects and the project as a whole.

To ensure that any potential impacts can be identified during the project preparation, the SIA was conducted through series of consultations with the stakeholders. A particular focus was the households which are potentially affected (both positively and adversely) by the subproject. The assessment techniques for this SA include 1) review of secondary data, 2) field observations; 3) focus groups discussions/community meetings, 4) key informant interview, and 5) households survey.

1.5 METHODOLOGY FOR ENVIRONMENTAL IMPACT ASSESSMENT

During the ESIA survey and reporting, the ESIA consultant used a combination of the following methods. Based on the project components and in compliance with the Environmental and Social Management Framework (ESMF) of the U.P. Pro-Poor Tourism Development Project, following steps were undertaken while preparing the Environmental and Social Impact Assessment Report for Sarnath:

- **Reconnaissance Survey**: Reconnaissance survey was conducted at the project sites of proposed subproject components by the experts to assess the field situation and key issues that need to be addressed in ESIA and ESMP.

- **Project Screening**: Screening was done in the initial stage of the project. The purpose of screening was to categorize the project and to screen out significant impacts of the project activities to obtain a broad picture of the nature, scale and magnitude of the issues, if any. Screening was done based on the Environmental and Social Management Framework of the project. (**Screening checklist is attached as Annexure 1)**

- **Review of World Bank Safeguard Policies and Indian Regulations**: During preparation of ESIA and ESMP, World Bank Safeguard Policies and Indian Regulations were taken into consideration to fulfill the regulatory requirements.

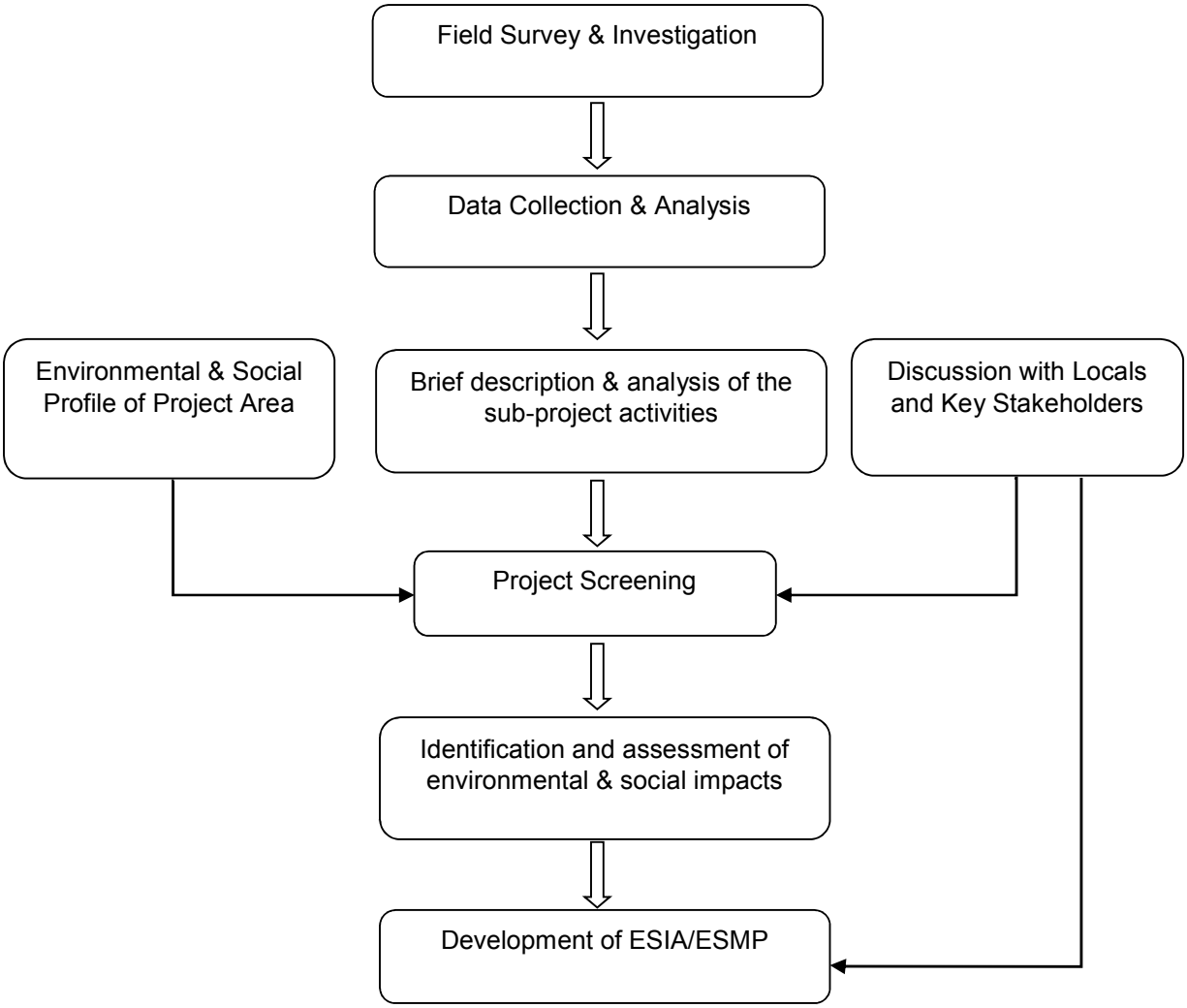
- **Data Collection & Analysis**: All available information and data (quantitative and qualitative regarding the proposed project was collected. Collection of primary baseline data/ information including monitoring of environmental attributes such as ambient air, noise, ground water, surface water and soil from accredited external laboratory (**Refer Annexure 2**). Apart from the above, secondary data collected from the Preliminary project report, consultation with stakeholders and City Development Plan, Central Ground Water Board, ASI etc.

- **Stakeholder Consultation**: Stakeholder consultation was carried out while preparing ESIA and ESMP reports. The local people and stakeholders were interviewed in groups. The interviewees were asked about their awareness of the proposed project and subprojects and their response to it and were made aware of how the project will affect them during construction phase and after completion phase. They were informed about the mitigation and rehabilitation plans, were asked for suggestions for improvements and public grievances if any towards the project. Interactions with important key stakeholders were done during formal discussions and the relevant government departments were visited to collect data and their feedbacks on the project activities.

- **Identification and Assessment of the Environmental and Social Impacts of subproject Activities**: On the analysis of the data collected from field survey and lab reports, stakeholder consultations and secondary sources, issues and impacts related to the environmental sector have been identified. The identified impacts have been compared with the existing baseline environmental conditions of the project area.

- **Development of an Environmental & Social Management Plan (ESMP)**: Based on the identified environmental and social issues, the ESMP recommends measures needed to prevent, minimize, mitigate or compensate for identified impacts and improve environmental & Socio-economic performance of the project activities. The Environmental Management Plan (EMP) also suggests for setting up an agency for management measures that need to be taken at various stages of implementation (Construction and Operation Phase) along with cost of EMP. Flow chart describing the steps adopted for preparation of ESIA/ESMP is depicted in Figure 1.

FIGURE 1: FLOWCHART SHOWING STEPS ADOPTED FOR PREPARATION OF ESIA/ ESMP



CHAPTER 2. PROJECT DESCRIPTION

2.1 SUB PROJECT AREA

Sarnath is situated 13 km north-east of the city of Varanasi. It lies between 25.2252° N 83.0117°E and 25.3811°N, 83.0214°E in the middle ganga valley of north India in the eastern part of the state of Uttar Pradesh. Administratively, Sarnath is under ward 30 of the city of Varanasi.

There are several tourist attractions or places of interest in the site area. Some of them are only popular among the religious tourist, which many others hold architectural, archaeological and cultural interest for non-religious tourists or tourists from other parts of the world. Owing to the significance of the location, many of these sites are under the protection of Archaeological Survey of India (ASI) and fall in Grade I and Grade II category making them even more significant monuments of national and regional important.

Some of the important sites include:

- **Chaukhandi Stupa**- It is believed to be originally built as a terraced temple during the Gupta period between the 4th and 6th century and is protected by ASI.
- **Dhamek Stupa**- It is believed to have been built by the Great Mauryan Emperor Ashoka and later rebuilt in the Gupta period. Also protected by ASI.
- **Ashoka Pillar-** in Sarnath is the most celebrated of all Ashokan pillars. It is believed that Emperor Ashoka erected the pillar around 250 BC. The pillar consists of the base column, still in place in the excavation site, the Ashoka Chakra and an inverted lotus.
- **Mulgandha Kuti Vihar**- The ruins of the Mulagandha Kuti Vihar mark the place where the Buddha spent his first rainy season in meditation. In the 7th century, it was described as being 200 feet high and containing 100 niches with an image of the Buddha carved along each wall. To the east of the ruins stands the relatively new Mulagandha Kuti Vihar, constructed by the Maha Bodhi society in 1931.
- **Deer park-** Behind the modern Mulagandha Kuti Vihar is a green area known as the deer park. The park is maintained as an open animal park and still attracts wild deer.
- **Sarnath Museum**-This is one of the oldest Museums (construction completed in 1910) set up by ASI which was built to house the relics discovered during the excavations at the sites across Sarnath. This is a very well visited site in the city.

TABLE 1: TOURIST ARRIVAL IN SARNATH

Year	International	Domestic	Total
2015	388102	924552	1312654
2016	409242	957320	1366562
2017	430682	1024589	1455271

2018	435752	1070035	1505787
2019	336136	1132615	1468751
2020	76308	384760	461068
2021(Upto August 2021)	112	248993	249105

Source: Annual Tourist Visit Statistics, DOT, UP

FIGURE 2. LOCATION MAP OF PROJECT SITE IN SARNATH

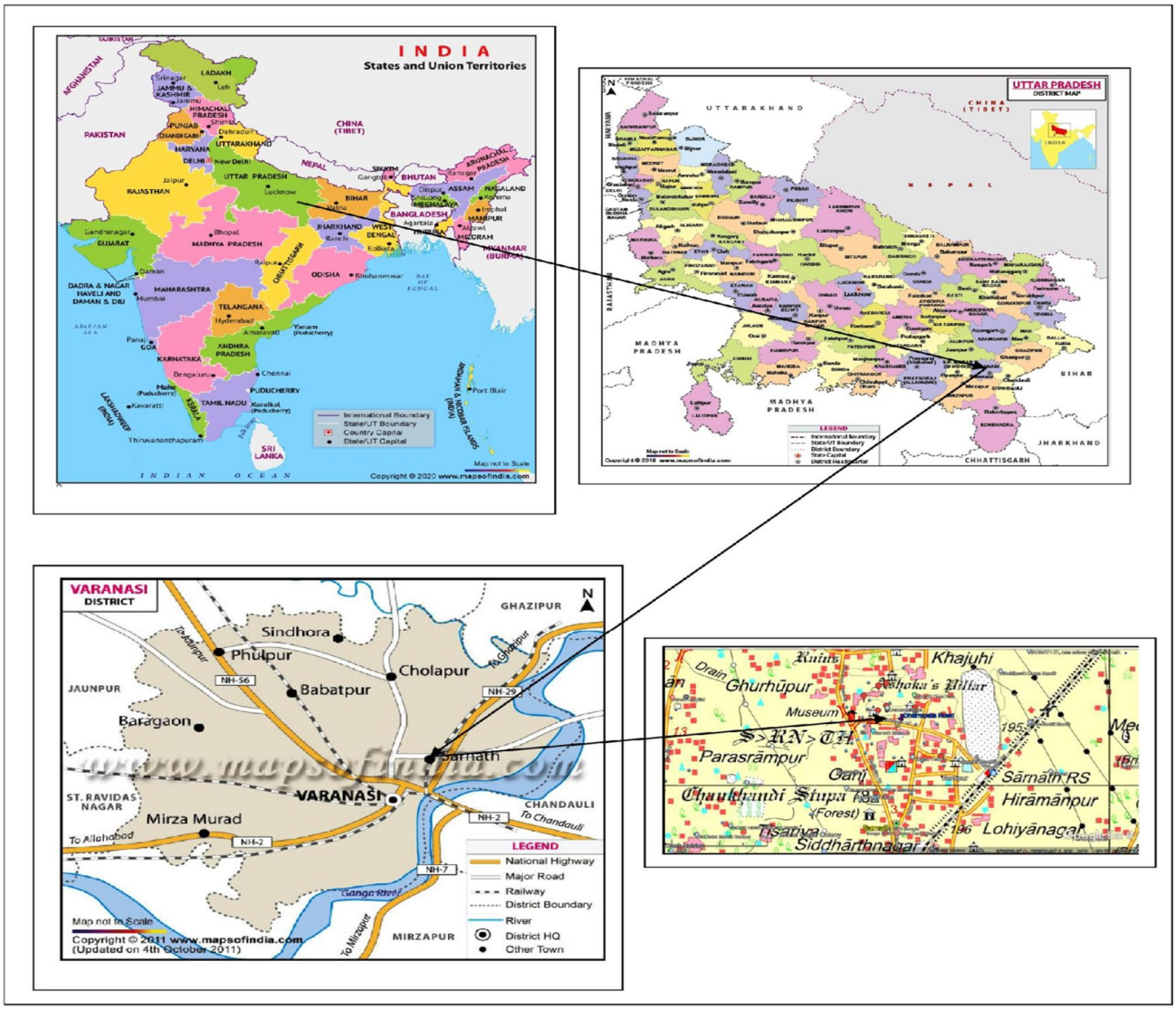
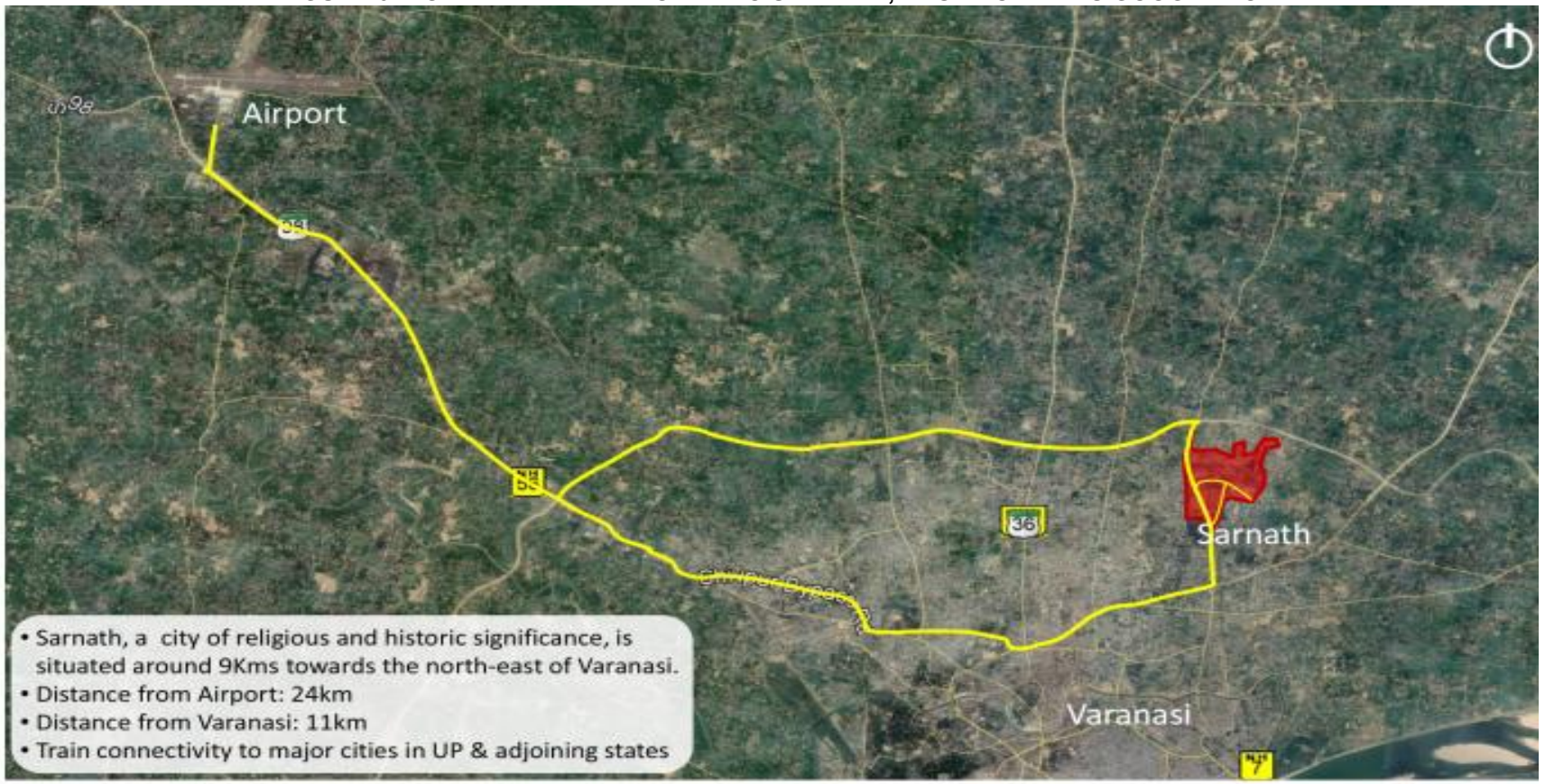


FIGURE 3: CONTEXT AND APPROACH TO SARNATH, BASED ON MAPS.GOOGLE.COM



2.2 PRESENT SCENARIO OF PROPOSED SITES:

There is a strong association of the Buddha circuit of Sarnath with inbound tourism in India, but visitation along the Buddhist Circuit, Sarnath suffers from a number of hindrances that prevent the realization of its tourism potential. Major causes include lack of infrastructure facilities, and the undeveloped tourist experience. Issues are presented below:

The roads in the core area (Dharampala Road, Rishipattan Road) are congested and chaotic. The road surface is particularly of low quality and patchy and cracked. Lack of management and enforcement of traffic rules creates unsafe, unpleasant road conditions for drivers and pedestrians, and complicates access to the main sites, attractions and services (i.e., restaurants, craft shops, eateries). All roads (Dharampala road, Rishipattan Road, Ashoka road and Last mile roads) lack proper slopes for storm water drainage, requiring resurfacing along edges and shoulders. There is no storm water drainage system in the core area and existing drains are poorly maintained. Water logging is a serious concern during heavy rains or any underground construction activity. A small drain flows from the side of the Modern Reception Centre, but it is insufficient for effective drainage of the whole area.





Few dustbins near the key attractions and public places in Sarnath, they are often overflowing and not emptied for days. A significant amount of solid waste is dumped on vacant lots and along the roads in the core area, as well as in the Nagar Nigam parking lot. The ward has no recycling schemes nor anything alike.





Traffic congestion is particularly problematic at the junction of Rishipattan and Dharampala roads, where most tourist buses and cars arrive, park and depart. Three-wheelers also park in this area, due to the lack of a designated parking, further reducing the width of the road available for passage and worsening the traffic and people's safety and flows. Due to increase in vehicular traffic at Dharampala and Rishipattan road, enhances the chance of air borne diseases, respiratory problems in nearby vendors/community ultimately affect their health, risk of accident etc. Traffic congestion could be seen near the MRC / Museum Tiraha. Haphazard parking is in practice near Museum Tiraha is also responsible for traffic congestion and inconvenience to pedestrian movement.





The market lacks appeal and suffers from various problems including the disorganized parking in its pavement area, damaged pavements, and water clogging. Vendors are living and working in poor conditions with little access to infrastructure. They are facing problems of eviction, inability to access various government facilities, lack of facilities such as toilet, lighting, etc., lack of social security and other similar hurdles. In addition to that lack of storage, theft or damage to stock are common issues facing by vendors.





2.3 PROPOSED INTERVENTIONS:

The scope of all works as enlisted for project of Buddhist Circuit at Sarnath are: Integrated works of Pedestrian path, Last mile connectivity, Vehicular road development, Tourist Information Centre and Tourist interpretation Centre cum library and two level parking for Buddhist Circuit Development at Sarnath). Works proposed are presented below:

FIGURE 4: PROJECT SITE SARNATH ON TOPOMAP IN DISTRICT-VARANASI, U.P.

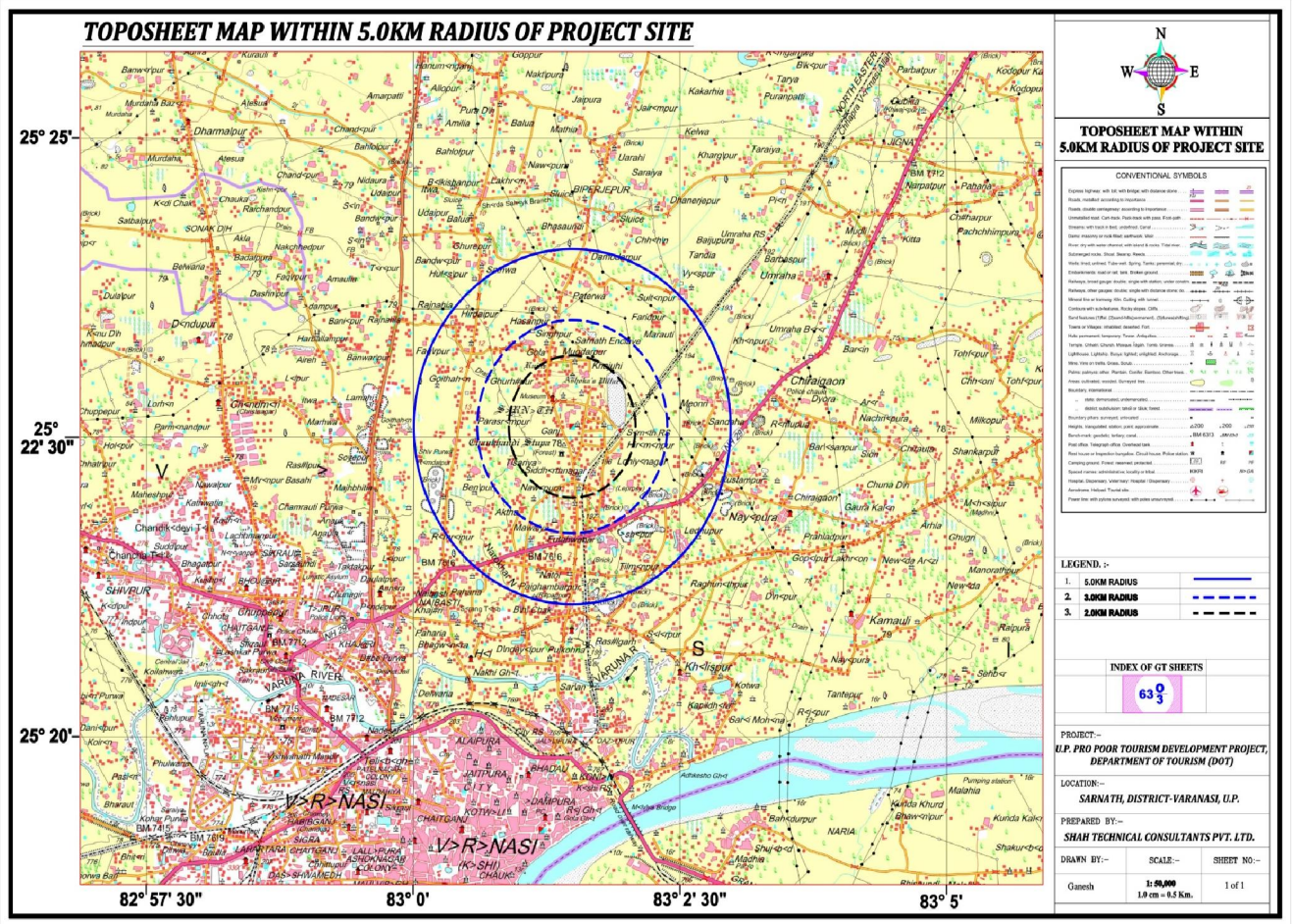


FIGURE 5: PROJECT SITE, SARNATH ON GOOGLE EARTH IN DISTRICT-VARANASI, U.P.



A. Integrated works of Pedestrian path/ Promenade (Dharampala road): The sub-site for this component is the Dharampala Road (625m in length) stretching from Museum tri-junction to Suheldev tri-junction with access gates to the ASI Museum, Dhamek Stupa, Digambar Jain Temple, Buddha Dharma Sangha complex, Sri Lanka Mahabodhi Society compound, Sarnath Buddhist Temple, Mahabodhi Society of India and Dharampala market. This component has the several sub components and activities designed to ease movement of visitors to various heritage sites and buildings as well as improve the livelihood of local vendors, artisans and other poor entrepreneurs.

TABLE 2: SUB-COMPONENTS OF DHARAMPALA ROAD

S. No	Components/ Activities	Total Qty	Remark
1	Development of road and pavements Roads and pavements to be finished with quartzite cobbles (25%), granite stone over PCC (70%), tactile tile over PCC (5%)	625 mt.	Dharampala road (Stretch between museum to Dharampala market)
2	Face-lift of Existing Boundary Wall (Includes addition alteration and renovation work as per approved design) stone cladding, stone jali, as per site requirements including architectural lighting	1250 mt.	
3	Interpretation Wall	437 Sqm	
4	Statues 10-15 feet high statues made of bronze	3 Nos.	
5	Street Furniture Chairs and benches of stone, stainless steel	25 nos.	furniture at 50 meter interval on both sides
6	Street Lighting 20 ft high 10 ft high Providing and fixing lights to achieve required lux levels at the promenade	80 Nos. 80 Nos.	

S. No	Components/ Activities	Total Qty	Remark
7	Hardscape, Planter, Plantation including landscape Lighting in street furniture cluster	1600 Sqm.	
8	Retractable Bollards Bollards on both end of promenade	42 Nos.	
9	Development of Vending zone for Mobile carts Vending kiosk zone with brick columns and beam for framing	1600 Sqm.	
10	Mobile vending Kiosk • Movable carts for vending Kiosks • Tea-on-bicycle • Chakh-le-UP (Mobile Kiosk for snacks & beverage)	50 Nos. 20 Nos. 50 Nos	
11	Services a. Underground Cabling [On both sides of the road] b. Dustbin [SS make] c. Solid Waste Management d. Sewerage [On both sides of the road] e. Drainage [On both sides of the road] f. CCTV & WIFI [To serve entire promenade under surveillance] g. Rainwater Harvesting	625 Rmt. 25 Nos. LS 625 Rmt. 626 Rmt. LS LS	
12	Dharampala market a. Refurbishment of Shops b. New Construction of Shops c. Construction of Toilet Block	1200 sqm 1800 sqm 100 sqm	

Source:Preliminary Project Report

FIGURE 6: CONCEPTUAL LAYOUT PLAN OF DHARAMPALA ROAD

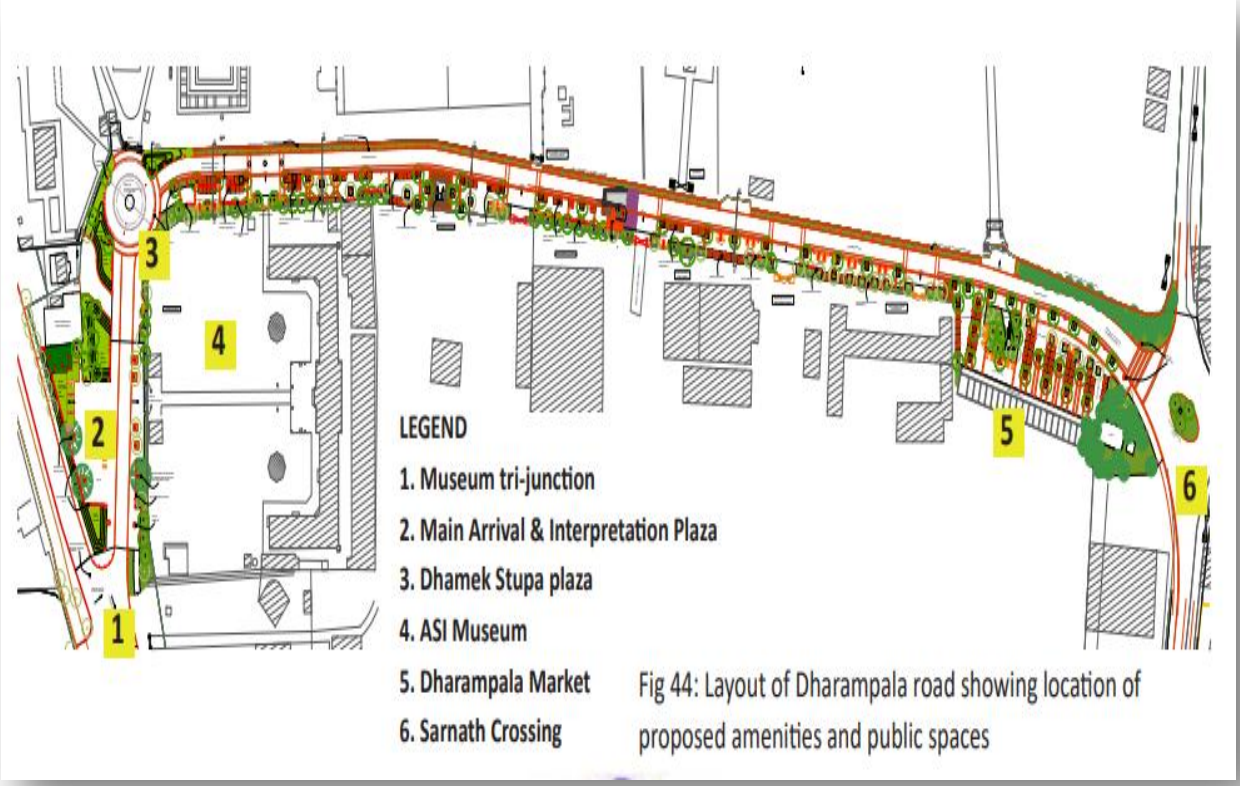


Fig 44: Layout of Dharampala road showing location of proposed amenities and public spaces

FIGURE 7: PROPOSED LAYOUT FOR DHARAMPALA MARKET



(B) **Last Mile Connectivity**: About 29 monasteries and temples have been identified as potential tourist attraction. Proposed sub project intervention connects all identified places with four major tourist hot spots viz. Dhamek Stupa, Archaeological remains, Chaukhandi Stupa and Sarnath Museum. The associated activities and works target improvement of living conditions of local residents including artisans, craftspeople and facilitate movement of visitors to associated sites including all religious and tourist attractions.

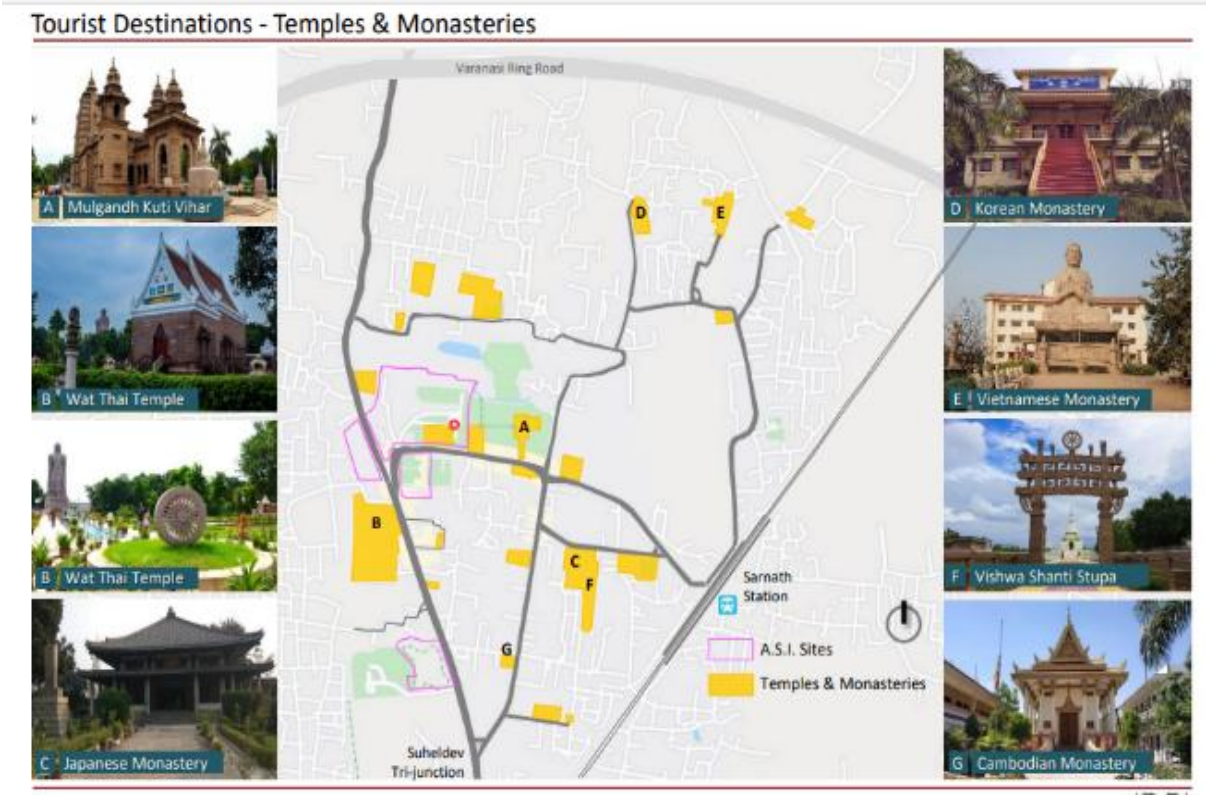
TABLE 3: SUB-COMPONENT OF LAST MILE CONNECTIVITY

S. No	Components/ Activities	Total Qty	Remark
1	Development of Roads and pavements 80mm thick concrete pavers over cutting and repairing of WBM Pedestrian 80mm thick concrete pavers over 150mm WBM kerb stone on both sides of road	5.450 Km	Ashoka marg to Jabodeep monastery = 230 mt, Ashoka marg to Sarangnath temple & Japanese temple =520 mt, Dharampala market to Sarnath railway station = 600mt, Sarnath station to Durga mata mandir = 600 mt, Durga mata mandir to Majjhimasukha temple= 1140mt, Road connecting Vietnamese Buddhist temple and Korean temple = 610 mt, Dharampala market to Hanuman mandir=720 meter, Rishipattan road to Buddha theme park, Buddhist Nyangampa Nannari and Golden temple=550 mt, Rishipattan road to Nyangampa

S. No	Components/ Activities	Total Qty	Remark
			monastery =280 mt, other connecting road 200mt.
2	Street Furniture Chairs/ benches of stone, stainless steel	5 Nos	
3	Street lighting Providing and fixing lights to achieve required lux levels at road	1362 Nos	
4	Planter, Plantation including landscape Lighting	150 sqm	
5	Development of Vending zone for Mobile carts a. Mobile vending Kiosk b. Chakh-le-UP (Mobile Kiosk for snacks & beverage) c. Tea on Bicycle	60 sqm 10 Nos. 10 Nos	Only hard paved area shall be provided.
6	Services a. Underground Cabling [On both sides of the road] b. Dustbin [SS make] c. Solid Waste Management d. Sewerage [On both sides of the road] e. Drainage [On both sides of the road] f. CCTV & WIFI [To serve entire promenade under surveillance]	5.4 km 10 Nos. LS 5.45 km 5.45 km LS	

Source: Preliminary Project Report

FIGURE 8: SHOWN LAST MILE TEMPLES AND MONASTERIES



C. **Vehicular Road Development (Rishipattan and Ashoka Marg**): Rishipattan road has high volume of traffic like Dharampala road since it connects the incoming road into Sarnath to Munnari road (leading out and beyond Sarnath). It was suggested that this road should also be converted into a pedestrian path linked to Dharampala

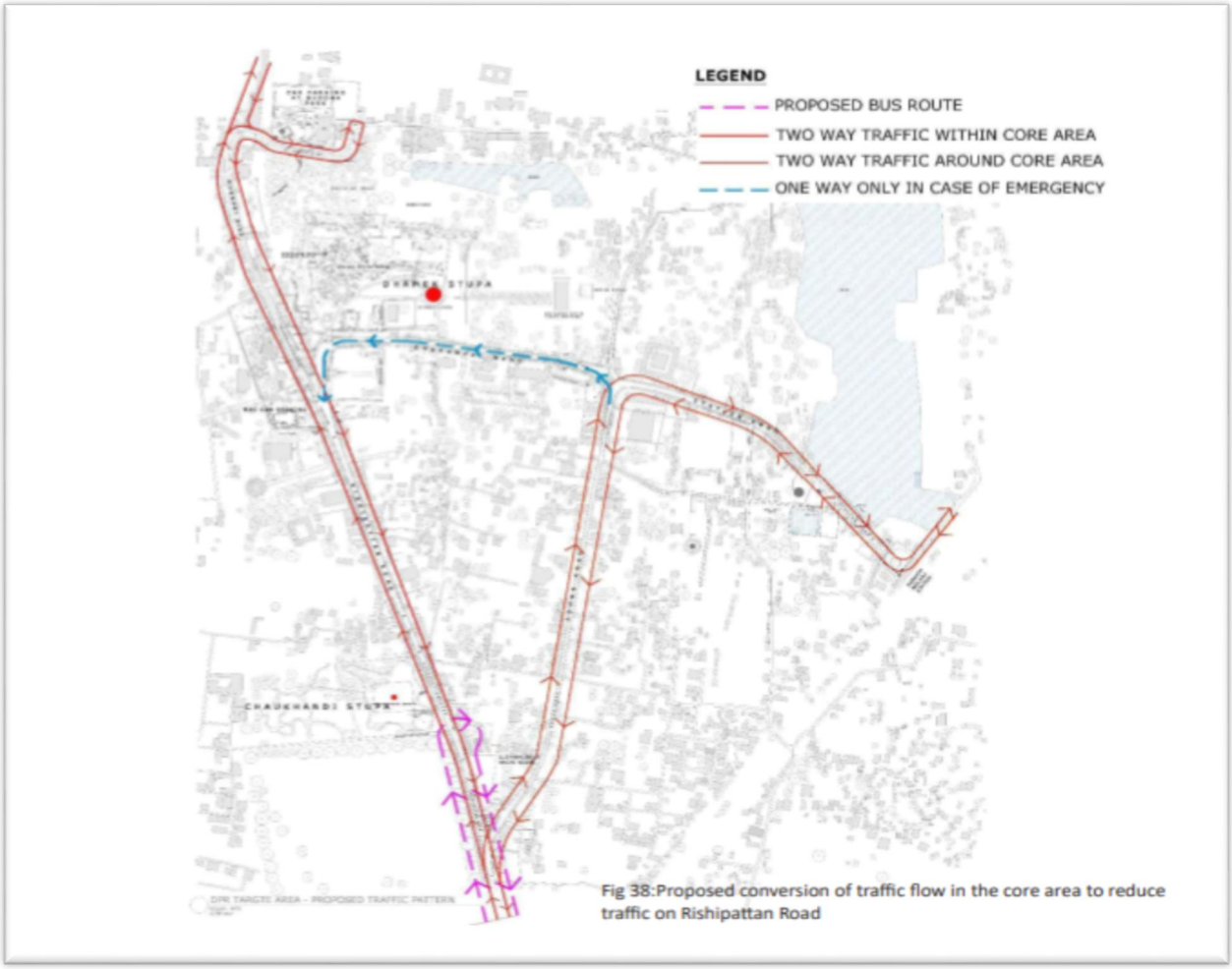
road so that visitors can move freely between Dhamek Stupa, other religious sites and Chaukhandi Stupa on Rishipattan road. However, owing to the high volume of existing traffic and no available alternate route to redirect the same, it has been decided to allow for traffic and develop a pedestrian zone along the right of way in addition to the road. The proposal meets two objectives: About 1.7 km (850 meter + 850 meter) length of Rishipattan road and Ashoka road is taken for vehicular road development. In addition, pedestrian movement will also be provided on both sides of the road at Rishipattan and on one side in case of Ashoka road.

TABLE 4: SUB-COMPONENTS OF VEHICULAR ROAD DEVELOPMENT (RISHIPATTAN AND ASHOKA MARG

S. No	Components/ Activities	Total Qty	Remark
1	Development of road Crossings and gate Gate in stone dry clad over metal frame	03 nos.	Suheldev tri junction, Museum tri junction and Sarnath crossing
2	Development of Rishipattan Road 150mm RCC road over cutting and repairing WBM	0.85 km	
3	Development of Ashoka Road 150mm RCC road over cutting and repairing WBM	0.85 km	
4	Rishipattan to Buddha Theme park Road and parking	300 rmt	Additional
5	Development of road near Chaukhandi stupa- Nagar Nigam Parking		Additional
6	Road Crossing	4 Nos	
7	Development of Bus parking and golf cart charging point	3000 Sqm	
8	Street Furniture Same as promenade	4 Nos.	
9	Street lighting Same as promenade	425 Nos.	
10	Planter, Plantation including landscape Lighting	320 Sqm	
11	Development of Vending zone for Mobile carts	120 sqm	
12	• Tea-on-bicycle • Chakh-le-UP (Mobile Kiosk for snacks & beverage)	20 nos. 20 Nos.	
13	Services a. Underground Cabling [On both sides of the road] b. Dustbin c. Solid Waste Management d. Sewerage [On both sides of the road] e. Drainage [On both sides of the road] f. CCTV & WIFI [To serve entire promenade under surveillance]	1.7 km 20 Nos. LS 1.7 km 1.7 km LS	

Source: Preliminary Project Report

FIGURE 9: PROPOSED CONVERSION OF TRAFFIC FLOW IN THE CORE AREA TO REDUCE TRAFFIC ON RISHIPATTAN ROAD



D. **Tourist Information Centre**, Sarnath: A tourist interpretation centre is necessary to improve visitor experience from the point of view of their orientation, provision of basic facilities, interpretation and introduction to crafts. A building extension and refurbishment of the existing Tourist Police station is proposed towards this use.

TABLE 5: SUB-COMPONENTS OF TOURIST INFORMATION CENTRE, SARNATH

S. No	Components/ Activities	Total Qty	Remark	Photographs
1	Building Refurbishment / Renovation of Building and premises	Job	Development of tourism gallery based on Buddha theme; Locker room	
2	External development [Landscaped area, road and kerb stone	Job		

S. No	Components/ Activities	Total Qty	Remark	Photographs
3	Services a. Water supply b. Sewerage c. Drainage d. Dustbin f. CCTV & WIFI [To serve entire promenade under surveillance]	Job Job Job 5 Nos. LS		
4	Public Services a. Construction of Toilet Block b. Installation of 08 number pre-fabricated kiosk	100 sqm 08 Nos		

Source: Preliminary Project Report

E. **Tourist Parking at Buddha Theme Park**: A well-organized car and bus parking has been proposed at the current location of Buddha Theme Park at 400m from Rishipattan Road. In addition to that few parking for 2-3 wheeler is also proposed. Details of locations and ownership are provided in Table 7

. **TABLE 6: SUB-COMPONENTS OF TOURIST PARKING AT BUDDHA THEME PARK**

S. No	Components/ Activities	Total Qty	Remark
1	Development of and utility block & Water harvesting facility	4000 sq mt	Additional item
2	Landscaping and plantation	Lump sum	

Source: Preliminary Project Report

FIGURE 10: LAYOUT OF PARKING AT BUDDHA THEME PARK

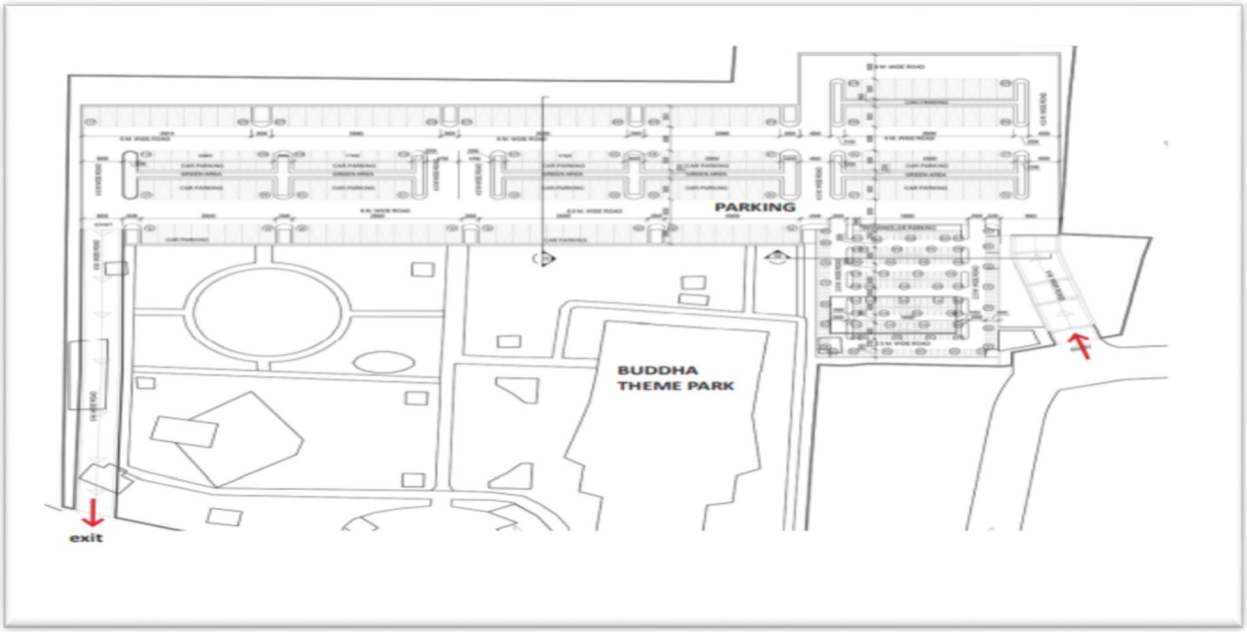
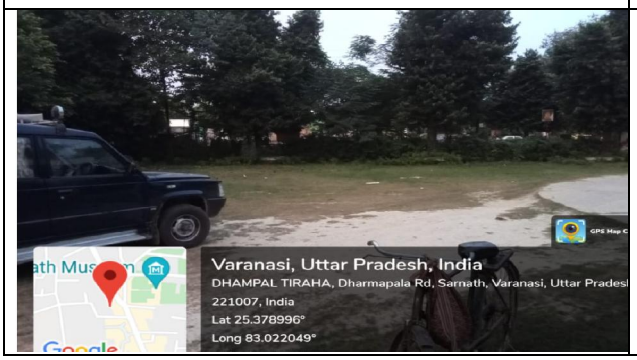
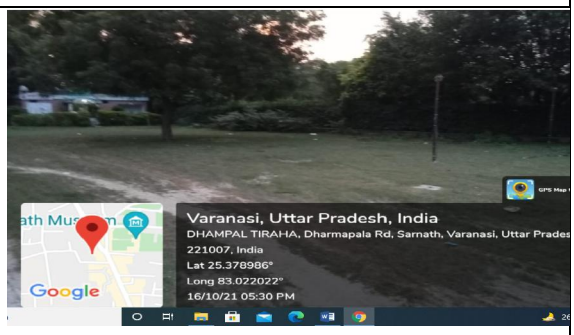


TABLE 7: LOCATION AND OWNERSHIP OF PROPOSED PARKING SITES

Proposed parking sites	
Location	**Ownership**
In front-of Chaukhandi Stupa	Land owned by Department of Tourism, Government of Uttar Pradesh and currently it is being used by Nagar Nigam for solid waste dumping yard. No rag pickers are at sites.
	
Buddha Theme Parking	Land belongs to Department of Tourism. Presently this site has been given to private operator for operating commercial activities.
	
Modern Reception Centre	Land belongs to Department of Tourism. Presently this sites have been used by Police Department as a Paryatak Thana, Cyber Thana by Uttar Pradesh Police. Total built-up area of the existing building is about 750 sq meter and total land area is about 8300 sq mete. During the site visits and ground verification, it was confirmed that the construction of parking does not involve any land acquisition and subproject will not cause

Proposed parking sites	
Location	**Ownership**
	any involuntary resettlement impacts (temporary/permanent, partial/full). Execution of subproject components will not result in physical displacement and/or economic displacement
	

2.4 COST SUMMARY

A detailed BOQ has been worked out as per the updated proposal post discussion with major stakeholders and the city administration. The calculated cost of the project is Rs.72.63 crore including all contingencies and overheads. The cost summary is as per the following table 8:

TABLE 8: PROJECT COST- DEVELOPMENT OF BUDDHIST CIRCUIT AT SARNATH

S.No.	Description of Sub-Heads	Amount		
		INTACH	DSR	MR
A.	DEVELOPMENT WORKS			
1	Promenade Development (Dharmapala Road)	8,46,591	4,22,74,843	11,48,11,795
2	Last Mile Connectivity Road and Surrounding Area Development		16,44,60,386	6,19,83,781
3	Vehicular Roads+ Parking		13,88,83,173	6,55,05,038
4	Tourist Information Centre		63,10,815	49,24,564
5	Electrical Cabling to be Buried Underground			6,21,97,216
6	Additional Cost (Environmental Monitoring & EMP Implementation			5,13,000
	Total	**8,46,591**	**35,19,29,217**	**30,99,35,394**
7	**GST@12%**	1,01,591		3,71,92,247
8	Contingency @ 2%	16,932	70,38,584	61,98,708
9	Architect Fees @ 1.5%	12,699	52,78,938	46,49,031
10	Cess @ 1%	8,466		30,99,354
	Total	9,86,279	36,42,46,739	36,10,74,734
	Total= 72,63,07,752 (72.63 cr)			

Source: Preliminary Project Report

CHAPTER 3. LEGAL, ADMINISTRATIVE AND POLICY FRAMEWORK

The Subproject ‘s environmental and social impact assessment was carried out in accordance with the World Bank and the Government ‘s environmental assessment procedures. In particular, it follows the environmental and social management framework of the project. Social and environmental screening was conducted for each sites of the subproject to determine the appropriate size and type of the environmental and social assessment.

3.1 NATIONAL POLICIES AND REGULATIONS

The conservation, protection and improvement of the environment were explicitly included in the Constitution of India by the Constitutional amendments in 1976. Articles 48A and 51 A (g) highlight the national consensus on the importance attached to environmental issues and provide the foundation for environmental protection in the country. Subsequently several other legislations such as Environmental Protection Act, 1986 an umbrella act comes into existence constitutes all acts for protection and conservation of the environmental resources of the country.

As per Government of India procedures on externally aided projects entails that all projects must be prepared and implemented in full compliance with the national legislation, regulations and standards, governing protection and management of the cultural and natural heritage of the country, environmental and social management frameworks. In continuance that the Environmental and Social Management Framework was prepared for U.P. Pro-Poor Tourism Development Project includes the national and state level environmental laws and the operational policies of the World Bank. State Specific and local level standards and regulations also apply to the projects based on their location and nature of the proposed activities and investments. The environmental and social laws, regulations and guidelines are applicable to the project are summarized in Table 9 below:

TABLE 9: NATIONAL AND STATE REGULATIONS FOR SARNATH SUB-PROJECT

Act/ Policy	Year	Objective	Main stipulations	Applicability to the project	Responsible Agency
Cultural Heritage – Government of India					
Ancient Monuments and Archaeological Sites and Remains Act Amended	1958 2010	Declares certain monuments/ sites as being of "national importance". Stipulates conservation of cultural and historical remains found in India.	Monuments are "protected" area. 100m radius is "prohibited" area – no construction or reconstruction. Repairs allowed. 200m radius is "regulated" area (structures can be constructed by archaeological officers with due sanctions from competent authority). Protection, maintenance and conservation managed by Archaeological Survey of India (ASI).	Major activities of promenade development at Dharampala Road within protected area and some part falls within 100m and 200m regulated area. Tourist information centre comes under the 200m regulated area of ASI. Parking at Buddha Theme comes under the 100m and 200m regulated area of ASI. Parking in-front of Chaukhandi Stupa comes under the purview of 100m and 200m regulated area of ASI. New construction/ rehabilitation of work is proposed.	Department of Tourism, GoUP/ Contractor
The Antiquities and Art Treasures Act	1972	To ensure registration of antiquarian remains in personal possession of individuals and institutions.	Registration of antiquities/ remains/ art is mandatory	As the subproject activities are within/near to the monuments, the possibility of Chance finds are expected. Inform State Archaeological Department if a find is suspected, and taking any action they require to ensure its removal or protection in-situ.	Department of Tourism, GoUP/ Contractor

Cultural Heritage – Government of Uttar Pradesh					
Uttar Pradesh Ancient and Historical Monuments and Archaeological Sites & Remains Preservation Act	1956	To declare sites and remains as protected.	Approx. 100 sites/ monuments protected under this Act. Maintenance, protection and conservation are the responsibility of the Directorate of Archaeology, UP.	The subproject components at Sarnath falls within protected, prohibited and regulated area. Hence prior permission from Directorate of Archaeology, U.P has to be obtained.	Department of Tourism, GoUP/ Contractor
Cultural Heritage – UNESCO					
Operational Guidelines for the Implementation of the World Heritage Convention	2013	To facilitate the implementation of the World Heritage Convention,	Requires the establishment of boundaries, buffer zones (where necessary), management systems and sustainable use for effective protection of listed sites and to maintain their "Outstanding Universal Value".	At present, there are 40 World Heritage Sites located in India. Out of these, 32 are cultural, 7 are natural, and 1 is mixed (meeting both cultural and natural criteria. No components of the subproject is located in or near to the approved World Heritage Centre in India and hence not applicable	Department of Tourism, GoUP/ Contractor
Tourism					
National Tourism Policy	2002	To increase the number of domestic and international tourists. To diversify the Indian tourism product and substantially improve the quality of (tourism) infrastructure, marketing, visa arrangements and air-travel.	To focus on welcoming, information provision, facilitation, safety, cooperation, infrastructure development, and cleanliness.	The policy objectives are to be ensured while planning and designing of the subproject activities.	Department of Tourism, GoUP/ Contractor
Tourism Policy of Uttar Pradesh	1998	To leverage a diversified	Projects must improve and diversify the tourism product base with a focus on adventure, religion and monument-	Ensure the subproject are planned, designed and implemented	Department of Tourism,

		tourism sector for economic benefit of local populations	based travelers, while economically benefiting local populations and increasing employment opportunities	ensuring the objectives of the policy.	GoUP/ Contractor
Social					
Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act	2013	To ensure rights of displaced populations in the case of land acquisition	Fair compensation for acquisition of immovable assets; Resettlement of displaced population due to land acquisition and economic rehabilitation of all those who are affected due to private land acquisition.	No land acquisition is involved. Vendors are located in Sarnath near subproject components. Involuntary resettlement is applicable and for this Resettlement Action Plan will be prepared and compensate accordingly.	Department of Tourism, GoUP/ Contractor
Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act	2014	To regulate street vending while ensuring rights and stating obligations of street vendors	Local agencies must regulate vending through a Plan, including relocation/ eviction rules, vendor rights (e.g. certificate of vending) and vendor obligations (e.g. maintain cleanliness of area).	Street vendors are located near the subproject components. Street Vendors Act fill will be followed.	Department of Tourism, GoUP/ Contractor
Code of Conduct for Safe and Honorable Tourism	2010	To protect basic rights, particularly of women and children, in tourism activities.	Code encourages tourism activities to be undertaken with respect to basic rights like dignity and safety, supports prevention of prostitution and exploitation, cultural and social intolerance which could increase vulnerability to crime.	The objective of the policy will be ensured during the planning, implementation and operation and maintenance of the project objectives.	Department of Tourism, GoUP/ Contractor
Sexual Harassment of Women at Workplace (prevention, prohibition, and redressal) Act	2013	An Act to provide protection against sexual harassment of women at workplace and for the prevention and redressal of complaints of sexual harassment and for	Act encourages construction activities to protect the basis right and safety of women at workplace in conjunction with requirements defined under this act.	Yes. The objective of the policy will be ensured women at work place.	Department of Tourism, GoUP/ Contractor

		matters connected therewith or incidental thereto.			
Environmental					
Environmental (Protection) Act	1986	To protect and improve environmental quality, control and reduce pollution from all sources, and prohibit or restrict the setting and /or operation of any industrial facility on environmental grounds.	Empowers the Central Government to take all such measures as it deems necessary or expedient for the purpose of protecting and improving the quality of the environment in coordination with the State Governments. The empowers the Central government to Plan and Execute a nation-wide program for the prevention, control and abatement of environmental pollution; Lay down standards for the quality of environment in its various aspects; Lay down standards for emission or discharge of environmental pollutants from various sources; Restriction of areas in which any industries, operations or processes or class of industries, operations or processes shall/ shall not be carried out subject to certain safeguards.	Emission and discharges from the facilities to be created or rehabilitated or augmented shall comply with the notified standards	Department of Tourism, GoUP/ Contractor
Water (Prevention and Control of Pollution) Act	1974	To provide for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water	Control of water pollution is achieved through administering conditions imposed in consent issued under to this Act. All pollution potential activities will require consent to establish (CTE) and Consent to Operate from State Pollution Control Board (SPCB)	Construction activities connected with the works in last mile connectivity at Pond in Khajuhi and runoff/ siltation from the construction site may have impact on the water body.	Department of Tourism, GoUP/ Contractor

Air (Prevention and Control of Pollution) Act	1981	An act for the prevention, control and abatement of air pollution.	The Act imposes restriction on establishment and operation of industrial plant in an air pollution control area. Consent of SPCB has to be obtained for the establishment and operation of industrial plant. The person operating the plant shall install and operate necessary pollution control equipment and maintain the emission standards prescribed.	The construction activities associated with project implementation require large quantities of broken stone and crushed metals. The quarries and stone crushers used to supply materials to the project should have valid consent issued by the SPCB. Similarly the generators, if any, used in the construction activities should have valid consent to establish and consent to operate from SPCB.	Department of Tourism, GoUP/ Contractor
Construction and Demolition Waste Management Rules	2016	Rules to manage construction and to waste resulting from construction, remodeling, repair and demolition of any civil structure. Rules define C and D waste as waste comprising of building materials, debris resulting from construction, remodeling, repair and demolition of any civil structure.	Construction and demolition waste generated from the project construction shall be managed and disposed as per the rules	Major activities proposed under the subproject are new construction/ rehabilitation of existing infrastructure facilities. Considerable quantity of construction and demolition wastes generate which will be collected and disposed at approved waste disposal sites in consultation with local authority	Department of Tourism, GoUP/ Contractor
Noise Pollution (Regulation and Control) Rules	2000	The increasing noise level in public places from various sources have delirious effects on humans and thereby it is considered necessary to	The ambient air quality standards are achieved through enforcement of noise pollution control measures and restrictions on the use sound producing instruments. In case of any violation in silence zone area, complaints to be	The plant and machineries, vehicles etc used for construction activities may create noise above the limits prescribed. The vehicles, wet mixing plants etc. used for construction activities should	Department of Tourism, GoUP/ Contractor

		regulate and control noise generating sources to maintain ambient air quality standards through a set of rules.	made to authority and power to prohibit continuance of music sound or noise also falls under within these rules	comply with the standards prescribed by the rules	
Solid Waste Management Rules, 2016	2016	To control and Management of Solid Waste	Waste generator shall segregate and store the waste generated by them in three separate streams namely bio-degradable, non-biodegradable and domestic waste in suitable bins and handover segregated waste to authorized waste pickers or waste collector as per the direction or notification by the local authorities from time to time. No waste generations shall throw, burn or burry the solid waste generated by him on streets, open public spaces outside his premises or in the drain or water bodies.	This act will be applicable for the proposed project. Applicable provision of this act are summarized in Annexure-I.	Department of Tourism, GoUP/ Contractor
Central Motor Vehicle Act Central Motor Vehicle Rules and Amendment	1988 1989	To check vehicular air and noise pollution	Vehicles to be used for construction and other purposes needs to meet the standards and certificates prescribed as per the Rules, 1989 to control air and noise pollution etc.	Yes, all vehicles used at project road should have of valid “Pollution Under Control” (PUC) Certificate issued as per Central Motor Vehicles Act.	Department of Tourism, GoUP/ Contractor

3.2 OTHER APPLICABLE ACTS

The following acts are also applicable for the sub-projects to be taken up under the present project

- Minimum Wages Act, 1948
- Contract Labour Act, 1970
- The Bonded Labour System (Abolition) Act, 1976
- Child Labour (Prohibition and Regulation) Act 1996 along with Rules, 1988
- Children (Pledging of Labour) Act, 1933 (as amended in 2002)
- Protection of Women from Domestic Violence Act, 2005
- The Criminal Law (Amendment) Act, 2013
- The Immoral Traffic (Prevention) Act, 1956
- The Maternity Benefit Act 1961

3.3 WORLD BANK SAFEGUARD POLICIES AND ENVIRONMENTAL AND SOCIAL FRAMEWORK

As per World Bank Environmental and Social Framework sets out the World Bank's commitments to sustainable development, through a Bank Policy and a set of Environmental and Social Standards that are designed to support Borrower's project, with the aim of ending extreme poverty and promoting shared prosperity. The ESF protects the people and environment from potential adverse impacts that could arise from Bank financed projects, and promotes sustainable development. The objective of these policies is to prevent and minimize impacts to people and natural environment in the development process. The safeguard policies provide basis for stakeholders' participation in the project designs and act as an important tool for building ownership among local people. The applicability of the Environmental and Social Standards (ESSs) to the subproject is examined and presented in 10 and 10(a). The proposed activities require permission and authorization prior to implementation of project are summarized in Table 11.

The Project's environmental and social screening has been undertaken in accordance World Bank's Safeguard Policies on Environmental Assessment (OP/BP 4.01), Natural Habitats (OP/BP 4.04), Involuntary Resettlement (OP/BP 4.12), and Physical Cultural Resources (OP/BP 4.11) that's applies to this project. According to the environmental and social screening, the project is classified as Category B. In addition, it needs to comply with the World Bank's requirements for public consultation and dissemination.

TABLE 10: RELEVANCE OF ENVIRONMENTAL AND SOCIAL STANDARDS TO THE SUBPROJECT IN SARNATH

S.No.	World Bank ESS Policy, Standards and Directives	Relevance
1	World Bank Environmental and Social Policy for investment project financing	Relevant
2	ESS-2: Labour and Working Conditions	Relevant
3	ESS-3: Resource –Efficiency and Pollution Prevention and Management	Relevant
4	ESS-4: Community –Health and Safety	Relevant
5	ESS-5: Land Acquisition-Resettlement on land use and involuntary resettlement	Relevant
6	ESS-6: Biodiversity-Conservation	Relevant
8	ESS-8: Cultural Heritage	Relevant
9	ESS-10: Stakeholder Engagement and Information Disclosure	Relevant

TABLE 10(A): APPLICABLE WORLD BANK SAFEGUARD POLICIES

World Bank Safeguard Policy	Objective	Applicability	Safeguard Requirement
OP/BP 4.01 Environmental Assessment	To ensure that Bank financed projects are environmentally sound and sustainable.	Environmental issues are addressed in advance through an integrated Environmental Screening and Environmental Assessment (EA). An Environmental Management Plan (EMP) is developed to manage environmental risks and maximize environmental and social benefits wherever it is applicable.	ESIA and/ or EMP
OP/BP 4.04 Natural Habitats	To support the protection, maintenance and rehabilitation of natural habitats in projects as well as policy dialogue and analytical work it finances. The Bank supports and expects the borrower to apply a precautionary approach to natural resources management to ensure environmentally sustainable development	It applies to improvements of road requiring forest, and /or wildlife lands, located close to natural habitats with the potential cause significant adverse impact or degradation whether directly (through construction) or indirectly (through human activities induced by the project).	ESIA and/or EMP
OP/BP 4.12 Involuntary Resettlement	To avoid or minimize involuntary resettlement where feasible, exploring all viable alternative project design; to assist displaced person in improving their former living standards; community participation in planning and implementing resettlement; and	It applies to project activities which lead to physical relocation of people or of their source of livelihoods.	Resettlement Action Plan/ Social Management Plan

World Bank Safeguard Policy	Objective	Applicability	Safeguard Requirement
	to provide assistance to affected people, regardless of the legality of land title.		
OP/BP 4.11 Physical Cultural Resources	To support the preservation of cultural property, historical, religious and unique natural value, including remains left by previous human inhabitants and unique environment features, as well as the protection and enhancement of Cultural properties within project target areas.	It applies when project activities are located near or in cultural properties which local country, regional or global significance and value.	Application has to be prepared and submitted to respective Cultural and/or Archaeological Department.

TABLE 11: LIST OF STATUTORY CLEARANCES AND AUTHORIZATIONS REQUIRED

S.No.	Type of Clearance	Concerned Department /Authority
Permission required by Department of Tourism (DoT) before commencement of works		
1.	Physical Cultural Resources- Ancient Monuments and Archaeological Sites and Remain Act, 1958 Amended in 2010	NMA with ASI & Commissioner Varanasi
2.	Uttar Pradesh Ancient and Historical Monuments and Archaeological Sites and Remains Act, 1956	Directorate of Archaeology, GoUP
3.	Uttar Pradesh Model Regulation and Byelaws for Conservation of Heritage sites Uttar Pradesh Planning and Development Act, 1973	Development Authority
4.	U.P. Water Supply and Sewerage Act.	UP Jal Nigam, Jal Kal Vibhag
Other permission will be required during construction period and will be taken by Contractor such as Utility Shifting *i.e.* water supply and Sewerage pipeline, Electric Cables, Poles, Telephone lines etc. and Road Cutting from PWD, Excavation, clearing of vegetation, construction waste disposal sites from Municipal Corporation, pollution control board, power corporation, Traffic department, Development Authority etc. as required time to time. Project related NOC's will be taken care by SPCU. Sourcing/procurement of construction material from authorized/approved agencies, NOC from traffic department, Waste disposal permission from Nagar Nigam etc. will be taken by contractor.		

CHAPTER 4. BASELINE STATUS OF PROJECT AND INFLUENCE AREAS

4.1 BACKGROUND

The baseline data of environment have been collected to determine the existing status of different environmental attributes such as climate, atmospheric conditions, ambient air, ground water, surface water, noise, soil, hydro-geological, ecological, and socio-economic, environment prior to setting of the proposed intervention in the area. Baseline study help to undertake corrective mitigation measures for protection of the environment due to proposed developmental activities in the area/region and any change in environmental attributes if any. The baseline data of environmental provides inventorization of physical, chemical and biological parameters. Description of environmental setting of the study area are:

(i) Project area
(ii) Influenced Area

4.2 ENVIRONMENTAL SETTING OF PROJECT AREA

Sarnath is place located about 10 km north east of District Varanasi near the confluence of the ganges and the Varuna rivers in Uttar Pradesh, India. It lies between 25.2252° N 83.0117°E and 25.3811°N, 83.0214°E in the middle ganga valley of north India in the eastern part of the state of Uttar Pradesh and elevation is 80m (262.47ft).

TABLE 12: SALIENT FEATURES & ENVIRONMENT SETTING OF THE PROJECT

Particular	**Project Details**
Package No.	Package - 1
Name of Project	U.P. Pro-Poor Tourism Development Project, Department of Tourism, Govt. of U.P.
Implementing Authority	Varanasi Development Authority (VDA)
Responsible Agency	Department of Tourism, DoT, Govt. of U.P.
Subproject Location	Sarnath
District	Varanasi
State	Uttar Pradesh (U.P.)
Category of Project	"B"
Coordinates	Latitude- 25.2252° N to 25.3811°N Longitude- 83.0117°E to 83.0214°E
Nearest Highway	Varanasi – Azamgarh highway in North direction of approx. 700m distance from Buddha Theme Park. NH-29 is passes about 1.2km in South direction of Suheldev Circle/ Rishipattan Road. SH-28 is passes about 2.8km distance in West direction of Museum Tiraha.

Particular	Project Details
Nearest Railway Station	Approx. 600 mt. in eastern direction from Ashoka Road about 1.0km in eastern direction from Rishipattan road.
Nearest Villages	Baraipur, Ganj, Khajuhi, Singhpur, Ghurhupur, Navapura, Parshurampur and Benipur All these villages come under Chiraigaon Block in district Varanasi.
Nearest City/Town	Varanasi is located about 10km in South West of Sarnath.
Nearest Airport	Lal Bahadur Shastri (LBS) International airport is located about 24 km in North West Direction of Project site.
Defense Installation	Not any No defense installation in its immediate vicinity of Sarnath.
Environmental Setting	
Ecological Sensitive Areas (Wildlife Sanctuaries/ National Parks, Biosphere Reserves etc.)	No eco-sensitive area is located as notified by MoEF&CC in the area or its immediate vicinity.
Sarnath deer park/ mini zoo	Sarnath deer park/ mini zoo is very close to proposed site at about 100-meter distance in Sarnath.
Habitat for Migratory Birds	Not Any There are no habitats of migratory birds in Sarnath.
Turtle Rehabilitation/ breeding centre	Turtle Rehabilitation & breeding centre located in Khajuhi about 400-meter distance from Sarnath Chauraha.
Nearest Forest	Not Any There are no Protected or Reserved Forest in and around the subproject site/s.
Historical Places	ASI protected Archaeological Excavated Remains and Chaukhandi Stupa is existing in Sarnath at /near the subproject components/sites.
Surface Water body	▪ Pond is located in Khajuhi approx. 350 m distances in East direction of Sarnath Chauraha. ▪ Natural water bodies such as pond is located in Deer park and situated behind the Archeological excavated remains falls within protected area and some part falls within 100m prohibited area of ASI. ▪ **Sarangnath Pond:** Located about 410m in South East direction of Sarnath Chauraha. ▪ **River Ganga:** About 6.5km in south east direction from sub-project location. ▪ **Varuna River:** Approx. 4.7 km in South East direction from sub-project area.
Topography	Sarnath is characterized by alluvial formation and plain topographic features.
Seismic Zone	Subproject sites in Sarnath comes under Seismic Zone–III (Moderate damage risk zone as per Earthquake Hazard map of U.P.)

FIGURE 11: ENVIRONMENT PROFILE MAP OF STUDY AREA-SARNATH

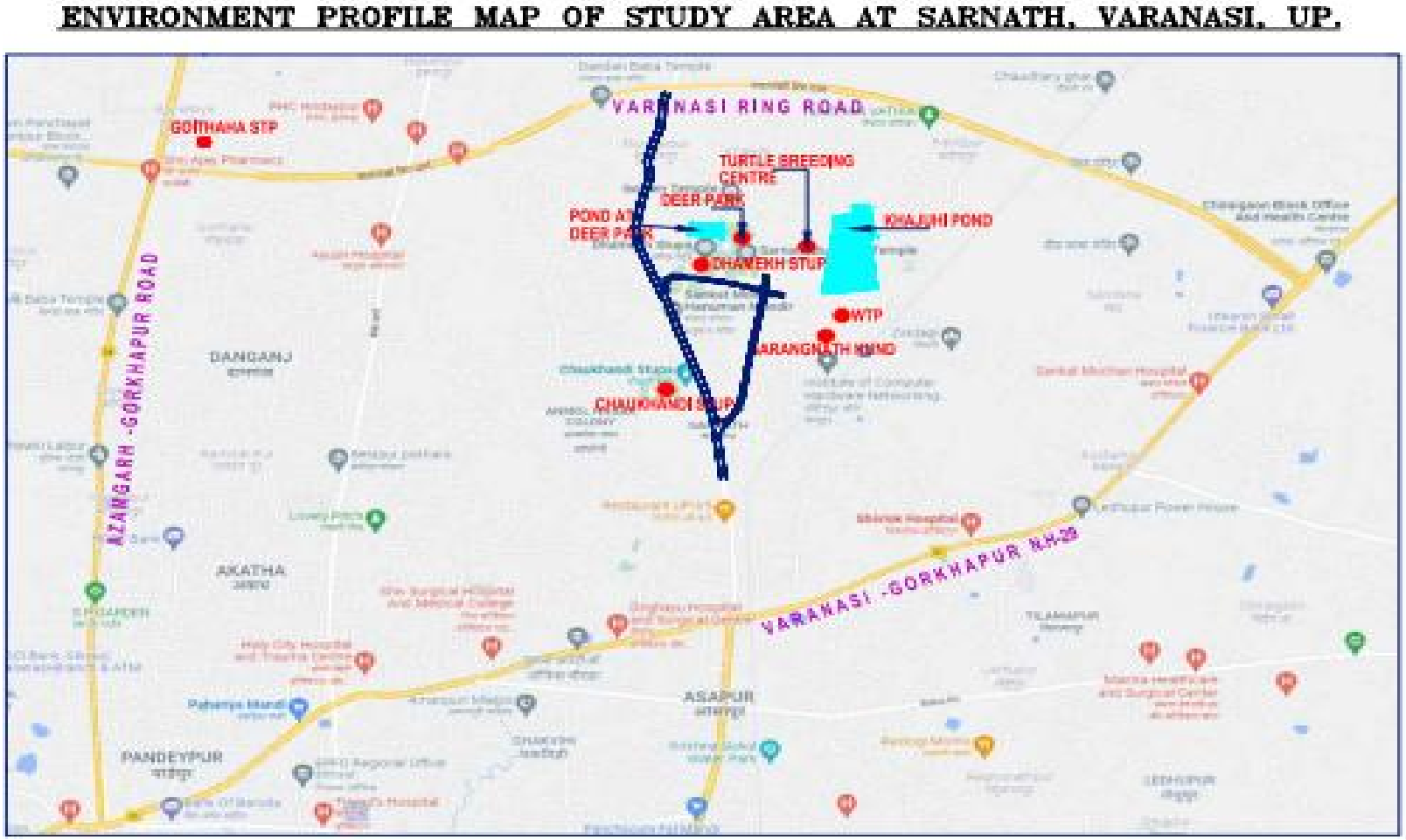


FIGURE 12: THE ASI PROPERTIES ON THE SITE MAP



4.3 LAND USE PATTERN IN THE DISTRICT

The land use pattern in the district Varanasi reflects that the predominant land use in the district is Agricultural/crop land (77.07%) followed by Built-up/urban (8.36%), Fallow Land (3.87%), Built-up/rural (3.34%), wetland/water bodies/river/stream/canals (2.68%) and plantation (1.49%), respectively. Barren/ unculturable wasteland constitutes only 0.44% of the total geographical area of the district. Total geographical area of the district is 1381 Sq.km.

FIGURE 13: LAND USE LAND COVER MAP OF STATE OF UTTAR PRADESH

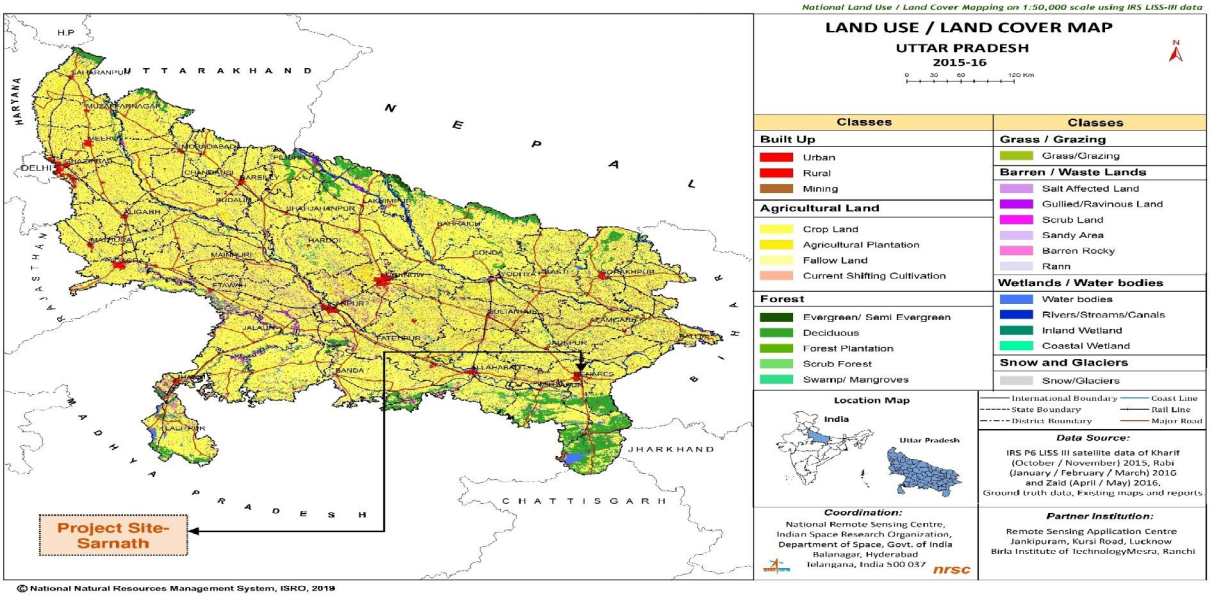


FIGURE 14: LAND USE PATTERN OF DISTRICT-VARANASI, U.P.

LULC Class	Area (Sq.Km)	LULC Class	Area (Sq.Km)
Builtup,Urban	115.49	Builtup,Rural	46.18
Builtup,Mining	12.25	Agriculture,Crop land	1064.34
Agriculture,Plantation	20.56	Agriculture,Fallow	53.42
Forest,Deciduous	7.93	Barren/unculturable/ Wastelands, Salt Affected land	8.38
Barren/unculturable/ Wastelands, Gullied/Ravinous Land	0.14	Barren/unculturable/ Wastelands, Scrub land	6.12
Wetlands/Water Bodies, Inland Wetland	6.06	Wetlands/Water Bodies, River/Stream/canals	36.95
Wetlands/Water Bodies, Reservoir/Lakes/Ponds	3.18		

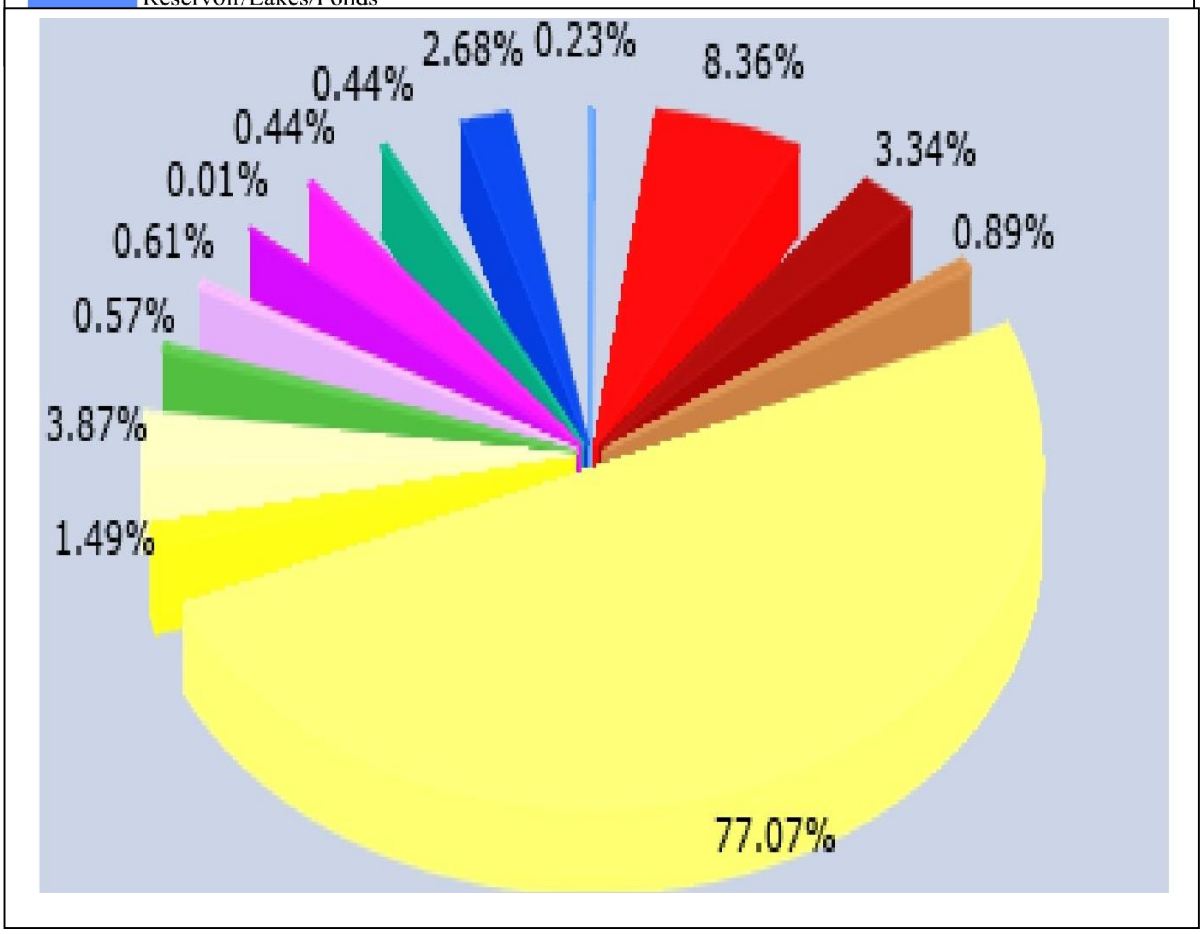
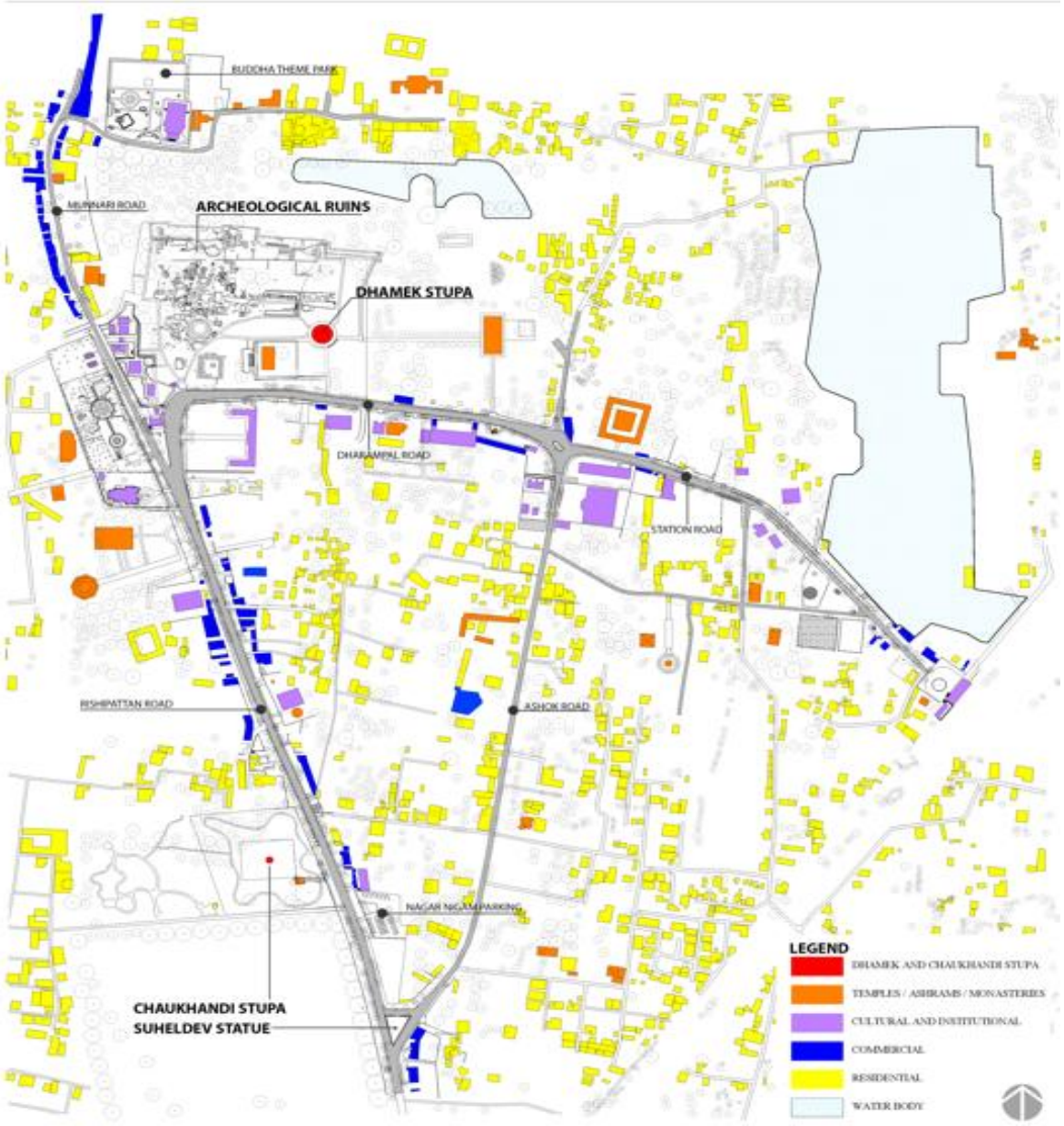


FIGURE 15: EXISTING LAND USE PLAN FOR THE LARGER AREA OF THE PROJECT



4.4 GEOGRAPHICAL LOCATION

Sarnath is situated 10km north-east of the city of Varanasi. It lies between 25.2252° N 83.0117°E and 25.3811°N, 83.0214°E in the middle Ganga valley of North India in the Eastern part of the state of Uttar Pradesh.

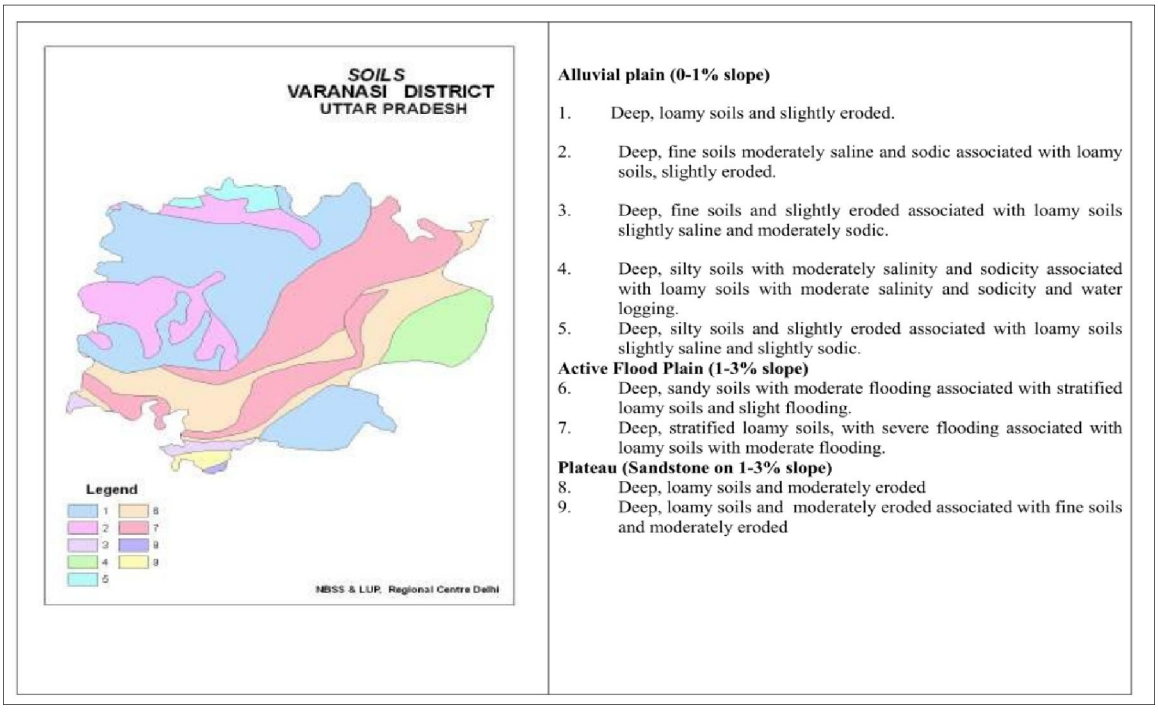
4.4.1 GEOLOGY AND SOIL

Geologically Sarnath is characterized by quaternary alluvium consisting of older and younger alluvium. Its core area is covered with alluvial soil varying from clay to sandy loam, deposited by the rivers Ganga and Varuna. Alluviums are divided in Khadar and

Bhangar. The Khadar tract is replenished annually by new manures and fertilizers. This soil is suitable for Bhadai, Rabi and Zaid crops. The Bhangar is the older alluvium and covers the upland tracts. It is richer in lime content and more suitable for cultivation, provided there is adequate irrigation. The pH value of soil varies between 6.5 to 7.5. Based on minor variations in color, texture, porosity, as well as the distance from the river the soil may be classified as follows:

- Sandy Loam: It covers a narrow belt along the Varuna River and low lying tract over the sandy soil along the Ganga Khadar tracts. This soil is important from an agricultural point of view because of its surface drainage, water holding capacity and soil fertility. The soil is fertile for Rabi and Kharif.
- Loamy Sand: It covers the low lying shore of the Ganga River. It has low productivity and is suitable for bajra or millets in the Kharif and for rabi crops like gram, pea and oilseeds.
- Clayey loam: It covers most of the Bhangar tracts of the whole district. It has sufficient moisture retaining capacity to produce paddy crops in the wet season.

FIGURE 16: SOIL MAP OF VARANASI DISTRICT



(Source: https://agricoop.nic.in/sites/default/files/UP21-Varanasi-27.09.2012.pdf)

Geologically, Sarnath is located in the fertile alluvial Gangetic plains and is under laid with sediments deposited in successive stages: layers of clay, fine sand, and clay mixed with kankar and stone bajri.

TABLE 13: STRATIGRAPHIC SEQUENCE IN DISTRICT VARANASI, U.P

Age	Formation	Lithology
Upper Pleistocene to Recent	Newer Alluvium	Clay, Sand and Kankar
Middle to Upper Pleistocene	Older Alluvium	Fairly consolidated clay with kankar, sand, fine to medium with some gravel
----------Un conformity----------		
Upper Vindhyan	Kaimur Sandstone	Sandstone, grey to white, buff, arkosic with capping of laterite and Bauxite

(Source: *Ground Water Brochure of Varanasi District, U.P.*)

To assess the physico-chemical characteristics of soil in the area, surface soil samples were collected from two locations in Sarnath as shown below:

TABLE 14: SOIL SAMPLING LOCATIONS IN SARNATH

Sample Code	Sampling Location	Land –Use Type
S1	Munnari Road near Buddha Theme Park, Sarnath	Agricultural -Land
S2	Opposite Sarnath international Hotel near Station Road, Sarnath	Barren-Land

TABLE 15: RESULTS OF PHYSICO- CHEMICAL ANALYSIS OF SOIL IN SARNATH

S.No.	Parameters	Unit	Test Methods	Results	
				S1	S2
1	pH (1:2.5 Suspension)	-	IS:2720 (P-26)	7.41	7.21
2	Colour	-	Visual	Light brown	Light brown
3	Conductivity (1:5 Suspension)	µS/cm	IS:2720 (P-21)	510.8	430.8
4	Water Holding Capacity	% by mass	EKO/CHEM/SOP/S-21	24.6	28.4
5	Bulk Density	g/cc	EKO/CHEM/SOP/S-12	1.25	1.28
6	Calcium Exchangeable (as Ca)	mg/kg	EKO/CHEM/SOP/S-08	1140.2	1120.2
7	Sodium Available (as Na)	mg/kg	EKO/CHEM/SOP/S-04	276.4	270.5
8	Potassium Available (as K)	mg/kg	EKO/CHEM/SOP/S-02	198.7	185.2
9	Magnesium Exchangeable (as mg)	mg/kg	Ministry of Agriculture Manual 2011	318.3	340.7
10	Nitrogen Available (as N)	mg/kg	EKO/CHEM/SOP/S-01	490.7	510.5
11	Phosphorus (as P)	mg/kg	EKO/CHEM/SOP/S-03	88.1	82.1

S.No.	Parameters	Unit	Test Methods	Results	
				S1	S2
12	Organic Carbon	% by mass	IS:2720 (P-22)	0.45	0.41
13	Moisture Content	% by mass	IS:2720 (P-2)	14.9	15.6
14	Texture	-	EKO/CHEM/SOP/S-11	Sandy Clay	Sandy Clay
15	Chloride (as Cl)	mg/kg	EKO/CHEM/SOP/S-01	168.5	160.7
16	Sulphate (as SO_4)	mg/kg	IS:2720(P-27)	340.7	328.9
17	Bicarbonate	mg/kg	EKO/CHEM/SOP/S-17	148.6	136.7
18	Porosity	% by mass	SOP-S/92/22	10.2	11.2
19	Iron (as Fe)	mg/kg	USEPA-SW 846 7130	46.8	41.6
20	Lead (as Pb)	mg/kg	USEPA-SW 846 7130	<1.0	<1.0

(Source: *Lab Analysis Reports of Soil*)

TABLE 16: SOIL RATING CHART FOR SOIL TEST DATA

Soil Types	pH		
Acids	< 6.0		
Normal to Saline	6.0 to 8.5		
Tending to become Alkaline	8.9 to 9.0		
Alkaline	> 9.0		
Total Soluble Salts (Conductivity in milli mhos/cm2)			
<1	Normal		
1-2	Critical for Germination		
2-4	Critical for Growth of the Sensitive Crops		
Nutrient	**Low**	**Medium**	**High**
Organic carbon (as a measure of available nitrogen)	< 0.5 %	0.5 - 7.5%	> 0.75%
Available nitrogen (N)	< 240 Kg/ha	240- 480 kg/ha	> 480 Kg/ha
Available Phosphorus (P)	< 11.0 Kg/ha	11 – 22 Kg/ha	> 22 Kg/ha
Available potassium (K)	< 110Kg/ha	110-280Kg/ha	> 280Kg/ha

Source: https://agritech.tnau.ac.in/agriculture/agri_soil_soilratingchart.html & Manual of Ministry of Agriculture, 2011

The pH of soil samples collected was slightly alkaline in nature with the value 7.41 (S1) and 7.21 (S2). Moisture content was found higher 15.9% (S2) as compared to 14.9% in soil sample (S1).

As per rating chart of soil given in Table 16 results of soil in the study area shows that organic carbon content in soil samples were found low, minimum value 0.41% at S2 and maximum 0.45% at S1 location in the study area. In view of Nitrogen content in soil, minimum 490.7 mg/kg (613.4kg/ha.) at S1 and maximum values 510.5 mg/kg (653.4 kg/ha.) at S2 locations showing higher the content of available nitrogen in collected soil samples in the study area. Available phosphorus found in the ranged between 88.1mg/kg (110.12 kg/ha.) at S1 and 82.1 mg/kg (105.1 kg/ha.) at S2 showing soil is rich (high) in available phosphorus content in the study area. In view of

Potassium content in soil, minimum value 185.2 mg/kg (237.05 kg/ha.) at S2 and maximum 198.7 mg/kg (248.34 kg/ha.) at S2 site showing soil have medium content of available potassium.

4.4.2 DRAINAGE

Two main rivers, Ganga and Gomti, and five tributaries of the Ganga (Varuna, Asi, Banganga, Chandra Prabha and Karmanasa) drain the area.

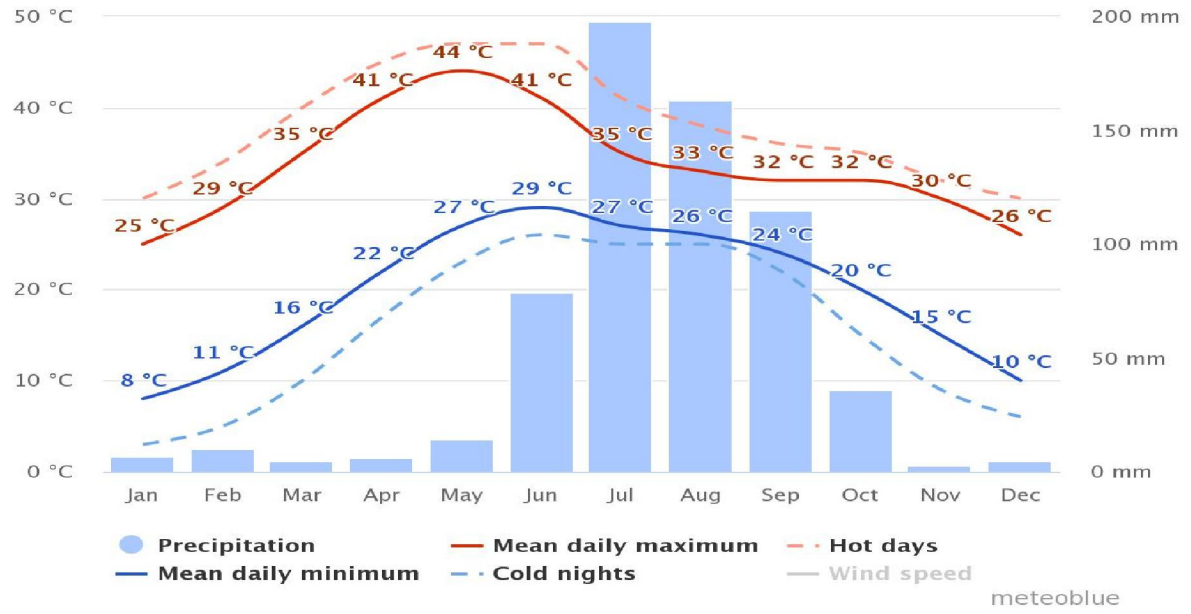
4.4.3 CLIMATIC CONDITIONS

Sarnath's climate is sub humid and is characterized by hot summer and pleasant monsoon and cold season. About 90% of rainfall takes place from June to September.

During monsoon surplus water flows into rivers and streams un-arrested due to hilly topographic features in northern part of the district. In February there is increase in temperature, may is the hottest month with the mean daily maximum temperature is 41.5^0C and mean daily minimum temperature is 9.5^0C. The average temperature ranges from 14.15^0C to 39.80^0C. The average temperature from March to June do not fluctuate much.

The average Relative Humidity of District Varanasi is around 67% although it varies from around 45% during Summer (April) to 87% during the Monsoon (August). The most humid month of the year is August with humidity varies from 64.9% to 98.1%. The least humid month is of the year is April, with humidity varies from 13.0% to 79.6%. Winds are generally high with some increase in force during summer and southwest monsoon season. In the district, the average annual rainfall is 1036.00 mm. The mean wind velocity is 2 knots and potential evapo-transpiration rate is 1406.7 mm.

FIGURE 17: SHOWING AVERAGE TEMPERATURE AND PRECIPITATION IN DISTRICT VARANASI



The average cloud cover of Varanasi is around 3/10th although it varies from around 0/10th during Winter (January) to 8/10th during the Monsoon (August). The cloudiest month of the year is August with cloud cover varies from 0/10th to 10/10th. The clearest sky month is of the year is January, with cloud cover varies from 0/10th to 5/10th.

FIGURE 18: VARIATIONS IN AVERAGE CLOUDY, SUNNY AND PRECIPITATION DAYS

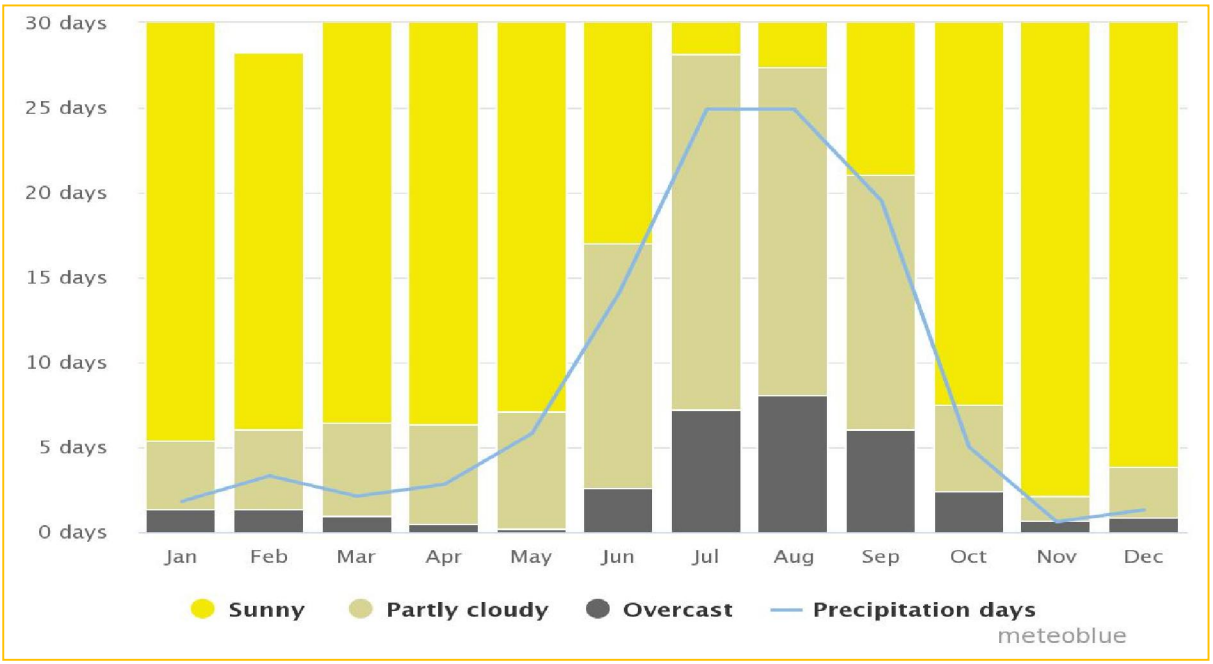


FIGURE 19: VARIATIONS IN MAXIMUM TEMPERATURE

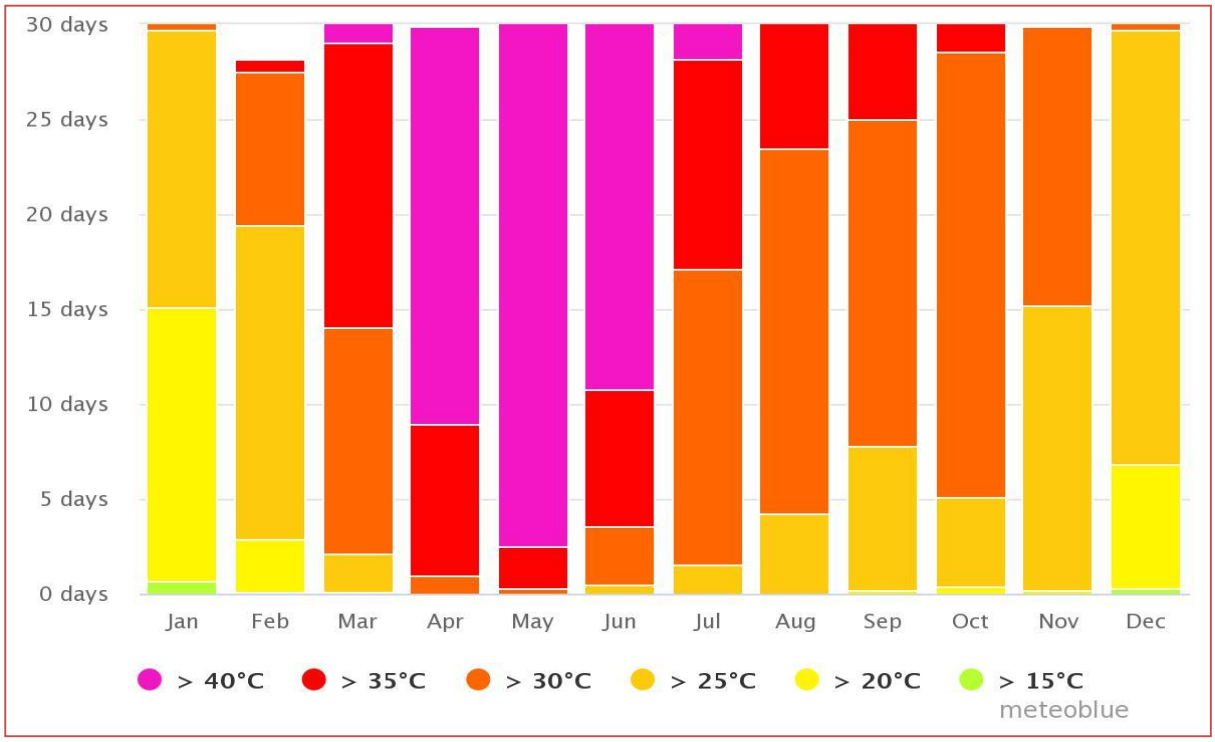


FIGURE 20: VARIATIONS IN PRECIPITATION

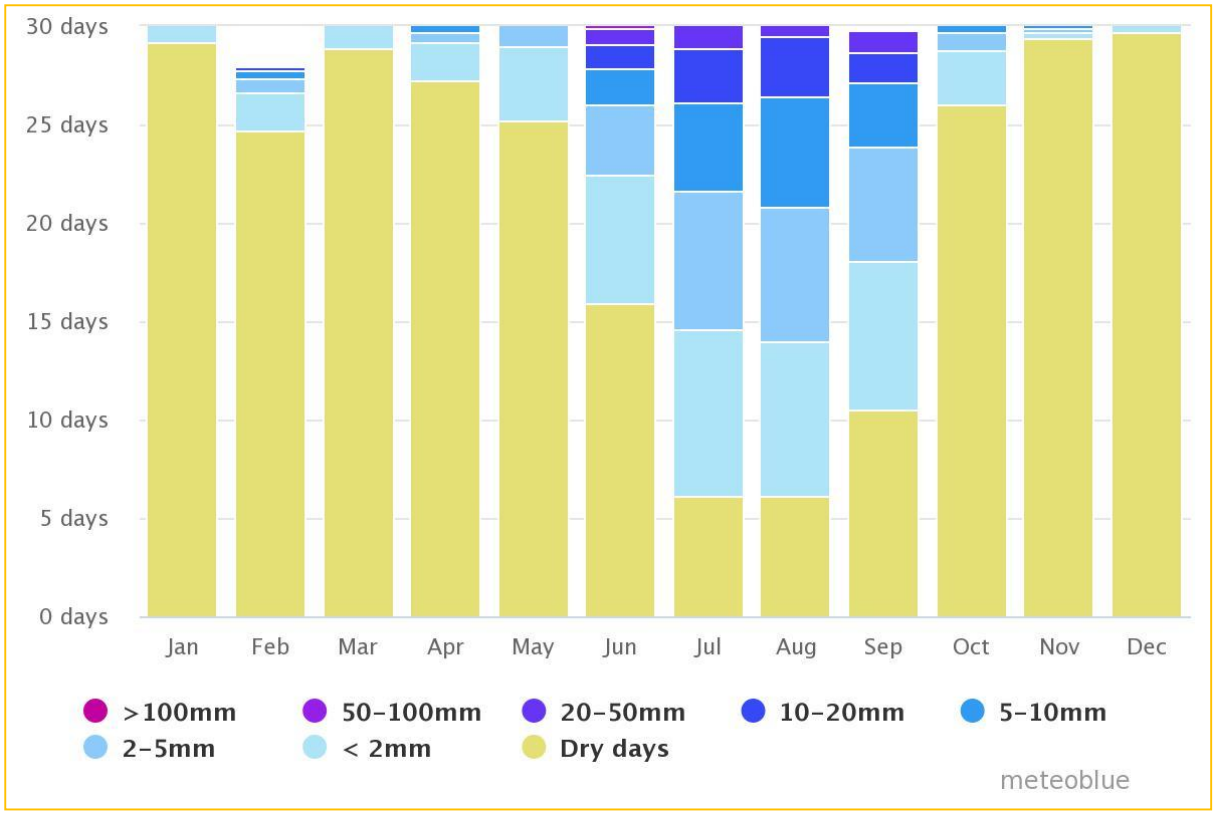
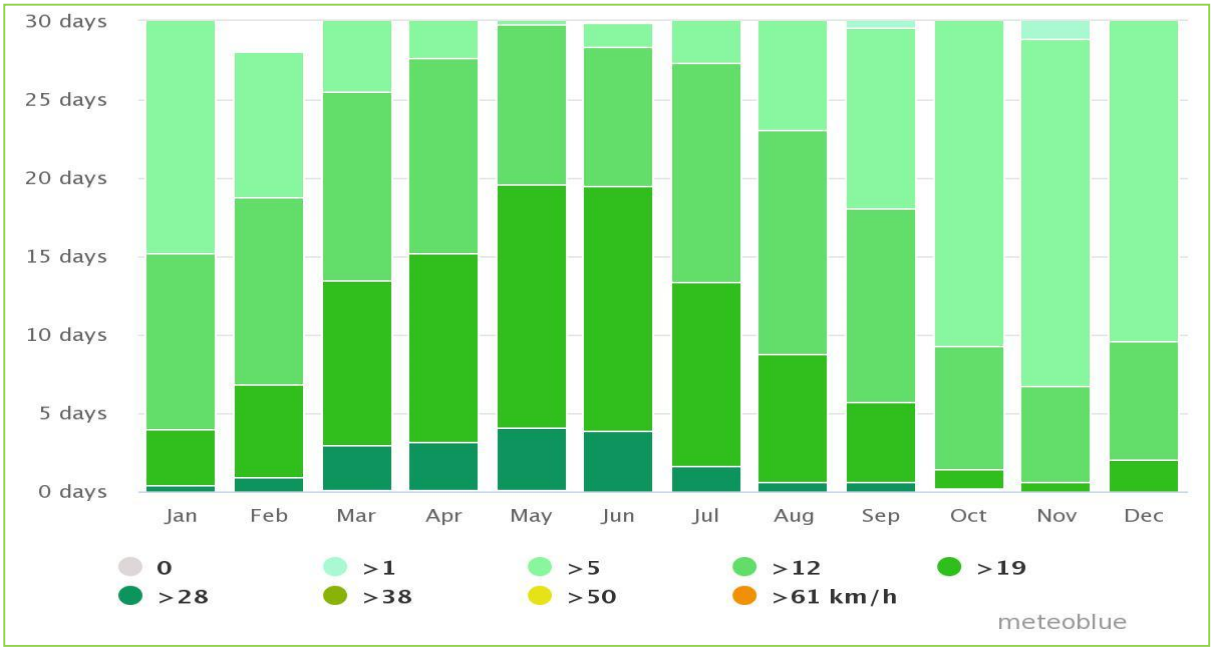


FIGURE 21: WIND SPEED IN DISTRICT VARANASI

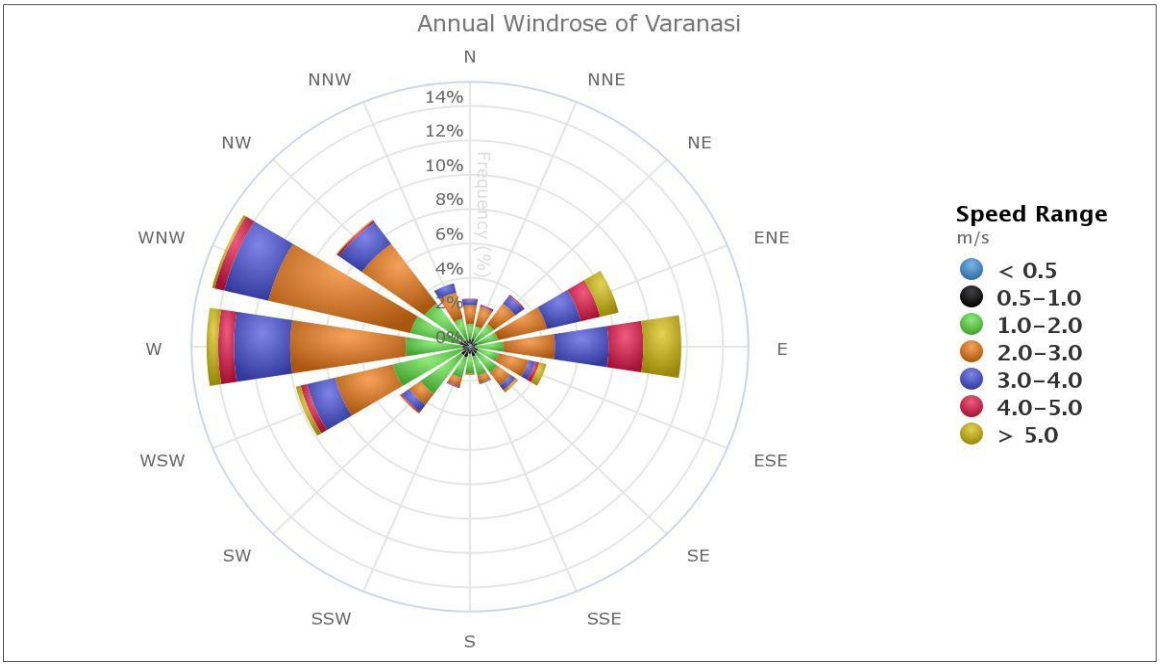


The average wind speed in Varanasi is 2.5 m/s (9 km/hr) with the maximum wind speed of around 9 m/s (32.4 km/hr).

The average station pressure of Varanasi is around 993hPa although it varies from around 983 hPa during Monsoon (July) to 1,002 hPa during the winter (December).

Wind rose of Varanasi shows that dominant wind blows from the WNW much of the time - about 14.67% of all hourly wind directions. Approximately 4.29% (max) of the time the wind blows from the WNW at speeds between 2 and 3 m/s. Further, at Varanasi much of the time winds blow at speeds between 2 and 3 m/s - which is 37.35% of the time. About 1.65% of time winds were CALM i.e. wind speeds less than 0.5m/s. The annual wind rose below showing wind speed and direction are typically distributed in Varanasi.

FIGURE 22: WIND ROSE DIAGRAM OF DISTRICT VARANASI



4.5 DEMOGRAPHY

Sarnath comprises of eight main villages: Baraipur, Ganj, Khajuhi, Singhpur, Ghurhupur, Navapura, Parshurampur and Benipur. As per the 2011 census, there are 2,089 households in the ward, totaling 13,552 inhabitants. 6 Children under 6 years of age constitute 13% of the population.

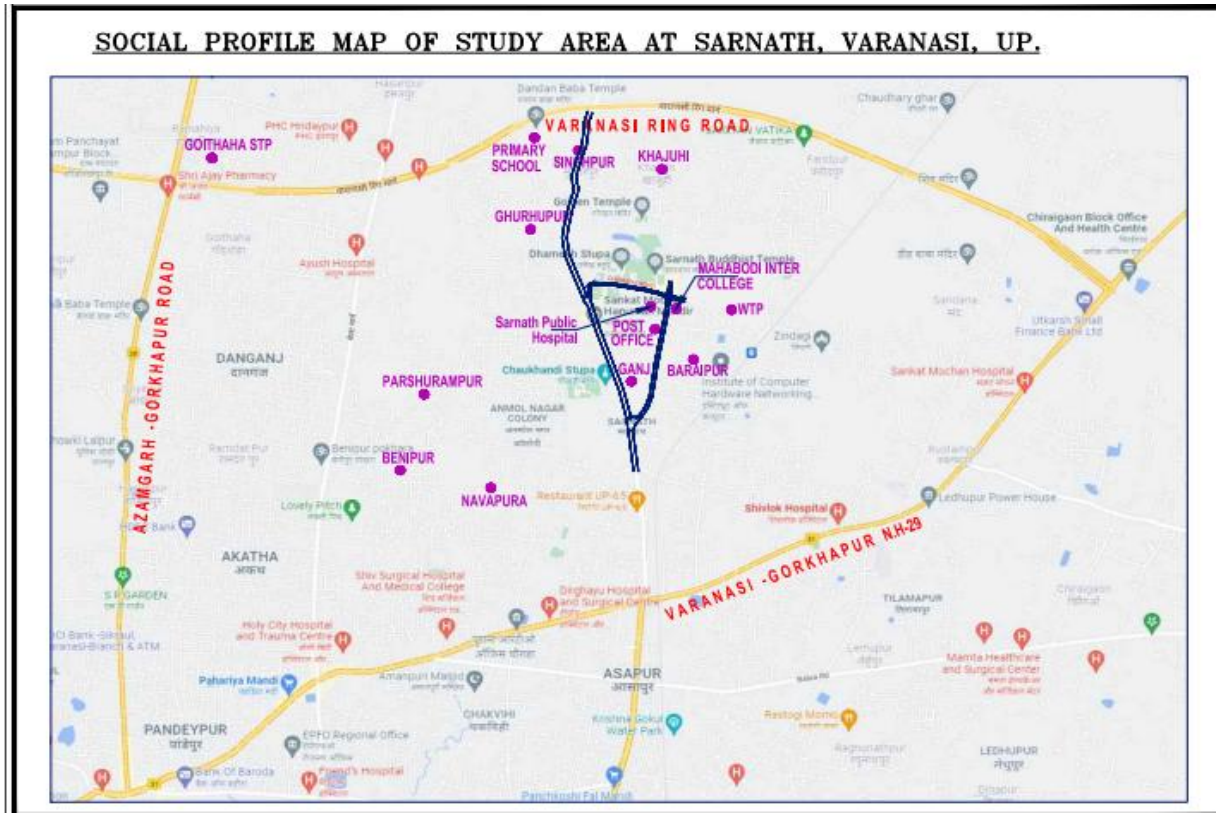
TABLE 17: POPULATION OF SARANTH

Total population	13,552
Male population	7,204
Female population	6,348
No. of households	2089

In Sarnath, 91% of the population belongs to general caste, 8% to scheduled caste, and 1% to scheduled tribes. There are no tribal areas in Sarnath and its surroundings, and no substantial tribal populations in the area.

Males constitute 53% of the ward's population, with 881 females per 1000 males in the ward. The sex ratio for general caste is 883, for schedule caste is 849 and for schedule tribe is 1043. From 2001 to 2011, the overall sex ratio in the ward decreased by seven females per 1000 males. There are 945 girls under 6 years of age per 1000 boys of the same age in the ward. From 2001 to 2011, the child sex ratio increased by 54 girls per 1000 boys. The child sex ratio in Uttar Pradesh is 899 as compared to 914 at the national level, reflecting the poor situation of women in the state and particularly in Sarnath.

FIGURE 23: SOCIAL PROFILE MAP OF STUDY AREA-SARNATH



4.6 WATER ENVIRONMENT

4.6.1 GROUND WATER CONDITION

Central Ground Water Board has established number of ground water monitoring stations in Varanasi district to monitor the water level behavior in space and time. The depths to water levels recorded during the year 2012 are given in Table 16. Depth to water in pre- monsoon ranges between 5.33 to 20.55 mbgl and the post-monsoon water level varies between 2.30 to 17.06 mbgl. The water level fluctuation ranges from 0.65 to 4.11 m (Table given below). The average magnitude of falling trend over last 5 years is 50-65 cm/year.

TABLE 18: LONG TERM WATER LEVEL TRENDS VARANASI DISTRICT, UTTAR PRADESH

S. No.	Location	Pre-Monsoon			Post-Monsoon			Annual		
		Data points	Rise (m/year)	Fall (m/year)	Data points	Rise (m/year)	Fall (m/ year)	Data points	Rise (m/year)	Fall (m/year)
1	2	3	4	5	6	7	8	9	10	11
1.	Siswa	1			0			2		
2.	Cholapur 1	9		0.2537	10	0.0169		39		0.0933
3.	Chobepur	10		0.3812	10		0.4378	40		0.4750
4.	Phulpur 1	7		0.7037	7		1.0060	26		0.9275
5.	Sindhaura	7		0.5418	8		0.9382	29		0.8132
6.	Babatpur Chaura	9		0.4171	8		0.8527	39		0.6030
7.	Varanasi	10		0.1830	10	0.0270		40		0.0938
8.	Thatra	7		0.7336	9		0.2338	36		0.5911
9.	Babatpur	7		0.5550	10		0.5098	34		0.4797
10.	Tahipur	10		0.0333	10		0.0201	40	0.0129	
11.	Barwaon	9		0.9913	9		1.0018	36		1.0290
12.	Kakrahwan	9		1.1018	10		0.8774	38		0.8872
13.	Raja Talab 1	5			6		1.0263	22		
14.	Anai	10		0.2862	10		0.0408	37		0.1161
15.	Jikhan (Narsara)	9		0.1011	10		0.0939	36		0.1120
16.	Rustampur	9		0.6280	10		0.1725	39		0.4565

Source: http://cgwb.gov.in/District_Profile/UP/Varanasi.pdf

Ground Water Quality in the District

The chemical analysis of ground water consists of pH, E.C., Na, K, Ca, Mg, HCO3, Cl, SO4, NO3, F and TH as CaCO3. The result reflects that the ground water is safe and potable in the entire district.

TABLE 19: GROUND WATER QUALITY BLOCKWISE IN THE DISTRICT-VARANASI, U.P.

Sl. No.	District	Block	pH	EC in µs/cmat 25^0C	----------mg/l----------										
					CO3	*HCO3*	*Cl*	*F*	*NO3*	*SO4*	*TH*	*Ca*	*Mg*	*Na*	*K*
1.	Varanasi	Harahna	8.12	786	ND	183	124	0.58	28.00	13	345	16	73	5.5	2.8
2.	Varanasi	Sewapuri	7.48	600	ND	250	82	0.14	9.79	3	325	24	64	1.4	2.0
3.	Varanasi	Narhua	7.46	1050	ND	390	53	1.34	9.36	14	395	22	82	8.3	3.0
4.	Varanasi	Cholapur	7.88	706	ND	384	138	0.69	3.75	5	505	18	110	5.1	1.1
5.	Varanasi	K.V. Peeth	8.15	886	ND	470	40	0.42	3.62	9	430	8	98	7.9	2.3
6.	Varanasi	Chirraigaon	8.12	646	ND	183	106	0.46	1.17	25	300	6	68	3.8	1.8

TABLE 20: BLOCK WISE GROUND WATER RESOURCES OF VARANASI, DISTRICT-U.P.

Sl. No.	Assessment Unit (Blocks)	Geographical Area (Ha.)	Annual Ground water Recharge (Ham)	Annual Ground WaterDraft (Ham)	Ground Water Availability (Ham)	Rate of GroundWater Draft (%)
1.	Arazi Line	24002	7427.28	8476.26	0.00	113.44
2.	Baragaon	17853	4691.73	3888.38	745.96	82.88
3.	**Chiraigaon**	**20865**	**6611.06**	**4753.07**	**860.28**	**81.21**
4.	Cholapur	17937	5869.61	4520.63	1270.30	77.02
5.	Harhua	14117	5800.22	7718.24	0.00	133.07
6.	Kashi Vidyapeeth	14340	4744.26	3564.13	1177.75	75.13
7.	Pindra	22350	7734.81	7074.16	577.96	91.46
8.	Sewapuri	19912	4344.18	3712.16	566.83	85.45
9.	Varanasi City	16913	2444.78	4913.07	0.00	200.96
	Total	**165290**	**48745.91**	**48620.11**	**5198.09**	**99.74**

Source: http://upgwd.gov.in/MediaGallery/Atlas2017/2017_VARANASI.pdf

Ground water Quality in Sarnath

Ground water quality throughout all sampling location found in Sarnath was potable & well within permissible and desirable limits as per given standards of IS: 10500, 2012. Ground water samples were also collected from three different sites in Sarnath and analysed in comparison with drinking water specifications by IS: 10500, 2012. Sampling location of Ground water in Sarnath is given in below Table 21.

TABLE 21: GROUND WATER SAMPLING LOCATIONS IN SARNATH

Station Code	Locations
GW1	Hand pump near Japanese Temple Sarangnath Road, Sarnath
GW2	Handpump, Khajuhi ,Sarnath
GW3	Handpump Near Mazar, Dharampala Road, Sarnath

Results of ground water quality are given in Table 22 below:

TABLE 22: RESULTS OF GROUND WATER QUALITY IN SARNATH

Sr. No.	Parameters	Test Method	Units	Limits as per IS: 10500- 2012 (Amd. No. 3 Feb-2021)		Results		
				Acceptable	Permissible	GW1	GW2	GW3
1	Colour	IS:3025 (P-4)	Hazen	5	15	<10.0	<10.0	<10.0
2	Odour	IS:3025 (P-5)	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	IS:3025 (P-7)	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	IS:3025 (P-10)	NTU	1	5	<1.0	<1.0	<1.0
5	pH	IS:3025 (P-11)	-	6.5-8.5	No Relaxation	7.26	7.34	7.36
6	Total Hardness (as $CaCO_3$)	IS:3025 (P-21)	mg/l	200	600	190	180	170
7	Calcium (as Ca)	IS:3025 (P-40)	mg/l	75	200	45.3	43.7	40.9
8	Iron (as Fe)	EKO/CHEM/SOP-CPMS/W-01	mg/l	1	No Relaxation	<0.005	<0.005	<0.005
9	Chloride (as Cl)	IS:3025 (P-32)	mg/l	250	1000	40.5	36.5	32.8
10	Residual Free Chlorine	IS:3025 (P-26)	mg/l	0.2	1	<0.1	<0.1	<0.1
11	Fluoride (as F)	IS:3025 (P-60)	mg/l	1	1.5	<0.1	<0.1	<0.1
12	Total Dissolved Oxygen	IS:3025 (P-16)	mg/l	500	2000	370	340	310
13	Magnesium (as Mg)	IS:3025 (P-46)	mg/l	30	100	18.7	17.2	16.5
14	Copper (as Cu)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.05	1.5	<0.005	<0.005	<0.005
15	Manganese (as Mn)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.1	0.3	<0.005	<0.005	<0.005
16	Sulphate (as SO_4)	IS:3025 (P-24)	mg/l	200	400	40.7	36.1	30.9
17	Nitrate (as NO_3)	IS:3025 (P-34)	mg/l	45	No Relaxation	15.2	13.8	10.4
18	Phenolic compounds (C_6H_5OH)	IS:3025 (P-43)	mg/l	0.001	0.002	<0.001	<0.001	<0.001

Sr. No.	Parameters	Test Method	Units	Limits as per IS: 10500- 2012 (Amd. No. 3 Feb-2021)		Results		
				Acceptable	Permissible	GW1	GW2	GW3
19	Mercury (as Hg)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001
20	Selenium (as Se)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.01	No Relaxation	<0.005	<0.005	<0.005
21	Arsenic (as As)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.01	No Relaxation	<0.005	<0.005	<0.005
22	Cyanide (as CN)	APHA 4500 CN-K	mg/l	0.5	No Relaxation	Absent	Absent	Absent
23	Lead (as Pb)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.01	No Relaxation	<0.005	<0.005	<0.005
24	Zinc (as Zn)	EKO/CHEM/SOP-CPMS/W-01	mg/l	5	15	<0.01	<0.01	<0.01
25	Total Chromium (as Cr)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.05	No Relaxation	<0.005	<0.005	<0.005
26	Total Alkalinity (as $CaCO_3$)	IS:3025 (P-23)	mg/l	200	600	165	158	150
27	Aluminum (as Al)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.03	0.2	<0.005	<0.005	<0.005
28	Boron (as B)	IS:3025 (P-57)	mg/l	0.5	2.4	<0.25	<0.25	<0.25
29	Cadmium (as Cd)	EKO/CHEM/SOP-CPMS/W-01	mg/l	0.003	No Relaxation	<0.001	<0.001	<0.001
30	Anionic Detergents (as MBAS)	APHA 5540	mg/l	0.2	1	<0.01	<0.01	<0.01
31	Total Coliform	IS:1622	MPN/100 mL	Should be Absent	No Relaxation	Absent(<2)	Absent(<2)	Absent(<2)
32	E.Coli	IS:1622	Per 100 mL	Should be Absent	No Relaxation	Absent	Absent	Absent

(**Source:** *Lab Analysis Report of Ground water Quality*)

FIGURE 24: GROUND WATER QUALITY IN SARNATH

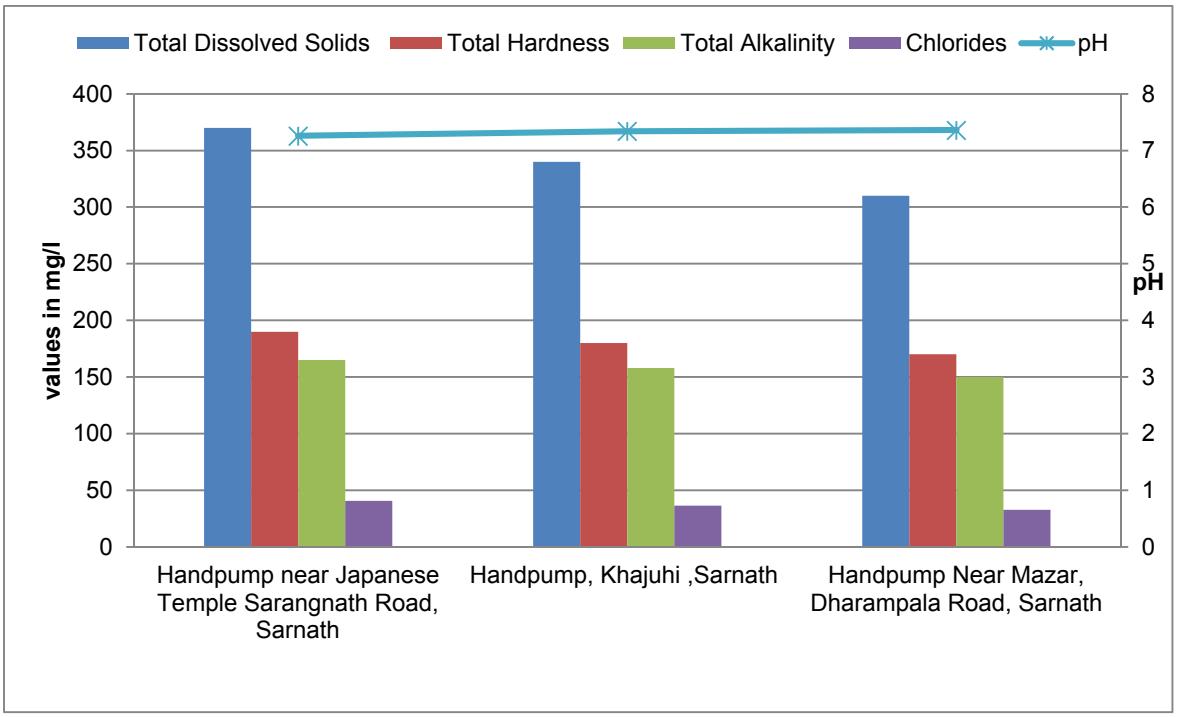
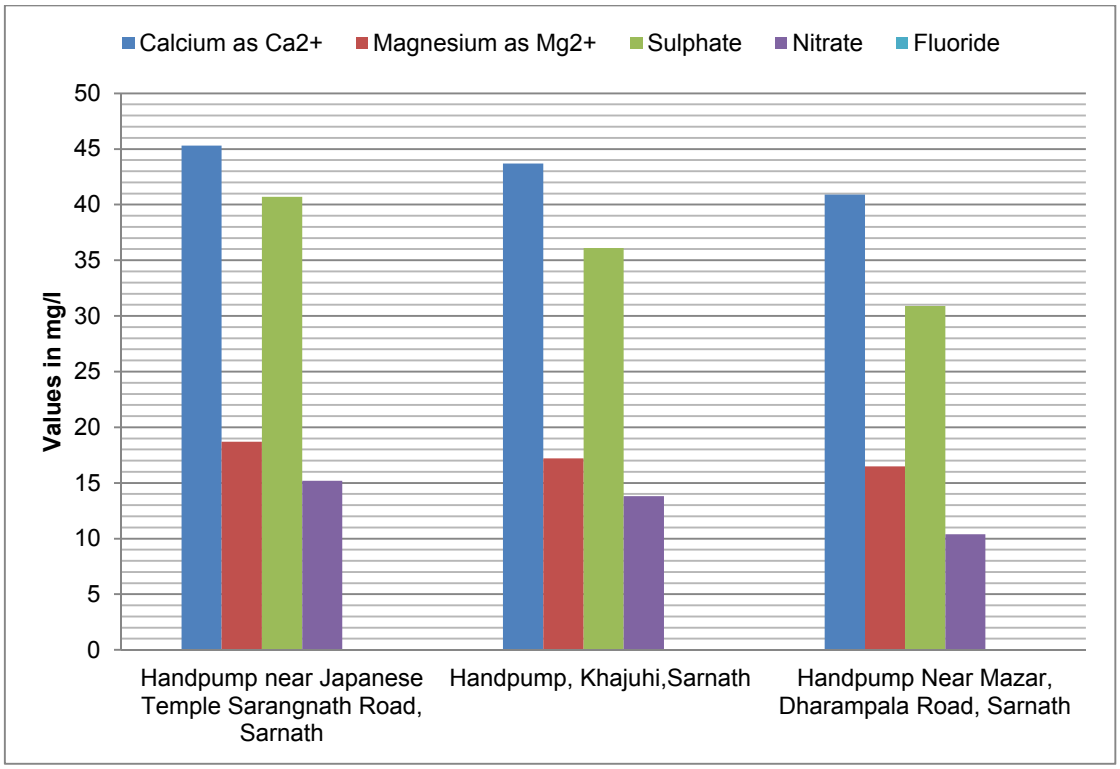


FIGURE 25: IONIC CONCENTRATION IN GROUND WATER IN SARNATH



4.6.2 SURFACE WATER SCENARIO

Surface water bodies are dynamic ecosystem and important water sources for increasing water demands of the growing populations in district Varanasi. Surface water sources also have significant values including drinking water and irrigation, food via fish and aquatic products and preservation of the health and biodiversity of important life supporting ecosystems. Ecosystem functions depend upon the quality characteristics of water which is based on a well-balanced environment in terms of physic-chemical and biological variables. Water quality also plays an important role in ascertaining the quantum of pollution load and health of an ecosystem. The qualitative and quantitative data of various physico-chemical and biological parameters helps to characterize these limnetic ecosystems and any changes and alteration due to unplanned development.

In Sarnath near subproject sites/ components few surface water bodies such as Sarangnath Pond, Pond at Khajuhi and Pond in Deer Park were undertaken based on drainage pattern and sensitiveness to different project developmental activities/ likely impact. All the above surface water bodies are perennial in nature.

Three surface water samples were collected from pond at Sarangnath, Pond in Deer Park and Pond at Khajuhi, respectively. These samples were taken as grab samples and were analyzed for various physico-chemical parameters and compared with the Indian Standards for Drinking Water Specification IS:10500, 2012 and IS:2296. The water sampling locations are listed in below Table 23.

TABLE 23: SURFACE WATER SAMPLING LOCATIONS IN SARNATH

Station Code	Sampling Locations
SW1	Pond near Viyatnamese temple (Gulabi temple),Khajuhi, Sarnath
SW2	Pond at Deer park, Sarnath
SW3	Sarangnath pond, Sarangnath Road, Sarnath

Results of Surface Water Samples

To assess the surface water quality near the subproject components, field surveys and samples were undertaken in three different locations. The result for the water samples collected with the study area compared with standards limits. (Ref Table 24)

TABLE 24: PHYSICO-CHEMICAL ANALYSES OF SURFACE WATER BODIES IN SARNATH

Sr.No.	Parameters	Test Method	Units	Limits as per IS: 2296-1982	Results		
					SW1	SW2	SW3
1	Colour	IS:3025 (P-4)	Hazen	300	<10.0	<10.0	<10.0
2	Odour	IS:3025 (P-5)	-	-	Agreeable	Agreeable	Agreeable
3	Turbidity	IS:3025 (P-10)	NTU	-	<1.0	<1.0	<1.0
4	pH	IS:3025 (P-11)	-	6.5-8.5	7.51	7.61	7.48
5	Total Hardness (as $CaCO_3$)	IS:3025 (P-21)	mg/l	-	125	180	152
6	Chloride (as Cl)	IS:3025 (P-32)	mg/l	600	21.5	40.5	26.2
7	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	50	ND	ND	ND
8	Residual Free Chlorine	IS:3025 (P-26)	mg/l	-	ND	ND	ND
9	Fluoride (as F)	IS:3025 (P-60)	mg/l	1.5	ND	ND	ND
10	Total Dissolved Solids	IS:3025 (P-16)	mg/l	1500	210	350	240
11	Calcium (as Ca)	IS:3025 (P-40)	mg/l	-	30	43.3	36.5
12	Magnesium (as Mg)	IS:3025 (P-46)	mg/l	-	11.9	17.5	14.8
13	Anionic Detergents (as MBAS)	APHA 5540	mg/l	-	<0.1	<0.1	<0.1
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	1.5	ND	ND	ND
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	-	ND	ND	ND
16	Sulphate (as SO_4)	IS:3025 (P-24)	mg/l	400	21.6	38.2	24.7
17	Nitrate (as NO_3)	IS:3025 (P-34)	mg/l	50	1.08	1.25	1.18
18	Phenolic Compounds (C_6H_5OH)	IS:3025 (P-43)	mg/l	0.005	ND	ND	ND
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	-	ND	ND	ND
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	0.05	ND	ND	ND
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	0.2	ND	ND	ND
22	Cyanide (as CN)	APHA 4500 CN-K	mg/l	0.05	Absent	Absent	Absent
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	0.1	ND	ND	ND

Sr.No.	Parameters	Test Method	Units	Limits as per IS: 2296-1982	Results		
					SW1	SW2	SW3
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	15	ND	ND	ND
25	Chromium (as Cr_6+)	IS:3025 (P-52)	mg/l	0.05	ND	ND	ND
26	Aluminum (as Al)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	-	ND	ND	ND
27	Alkalinity (as $CaCO_3$)	IS:3025 (P-23)	mg/l	-	124	147	135
28	Boron (as B)	IS:3025 (P-57)	mg/l	-	ND	ND	ND
29	Cadmium (as Cd)	EKO/CHEM/SOP-ICPMS/W-01	mg/l	0.01	ND	ND	ND
30	Oil & Grease	IS:3025 (P-39)	mg/l	0.1	ND	ND	ND
31	COD	IS:3025 (P-58)	mg/l	-	18.5	27.5	19.5
32	BOD @ 27^0C For 3 Days	IS:3025 (P-44)	mg/l	3.0	3.8	4.5	3.5
33	Dissolved Oxygen	IS:3025 (P-38)	mg/l	4.0 (Min)	4.5	3.5	4.0
34	Phosphate (as P)	IS:3025 (P-31)	mg/L	-	3.16	4.21	2.81
35	Faecal Coliform	APHA 9221(E)	MPN/100mL	-	170	140	220
36	Total Coliform	IS:1622:1981	MPN/100mL	5000	500	300	300
37	E.Coli	IS:1622:1981	Per 100 mL	-	Present	Present	Present

(Source: *Lab Analysis Report of Surface Water Quality*)

FIGURE 26: SURFACE WATER QUALITY IN SARNATH

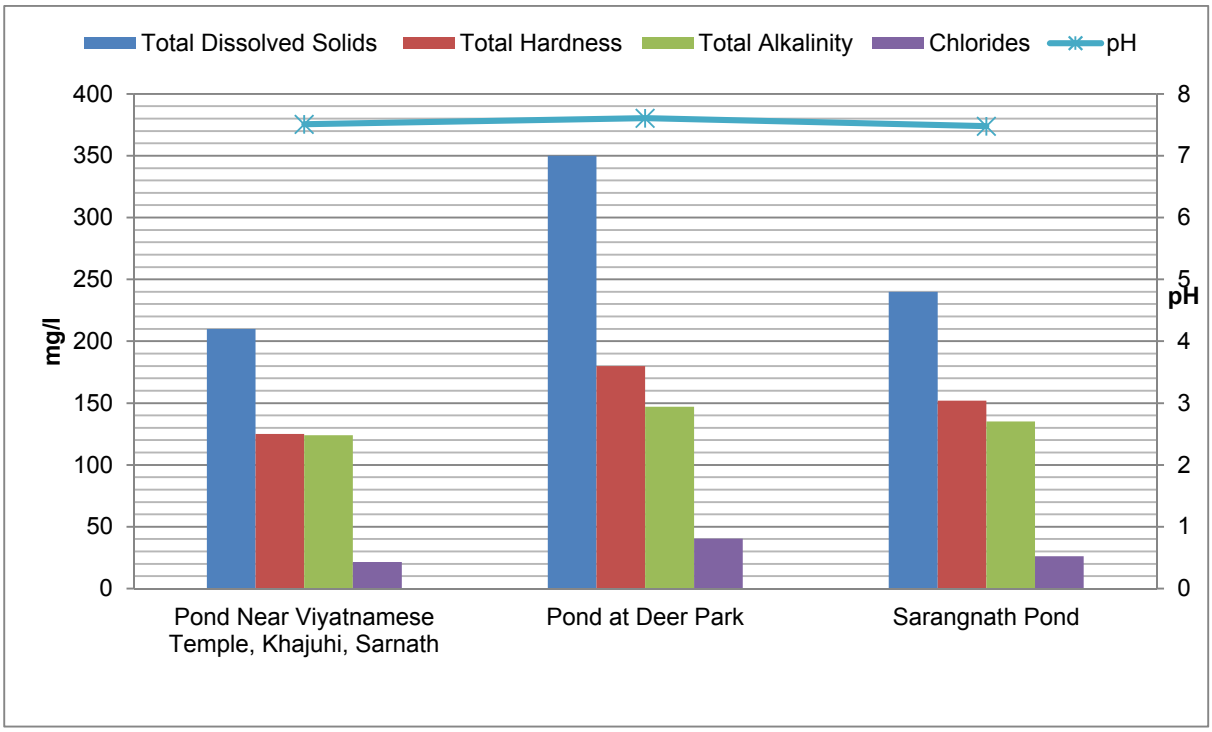


FIGURE 27: IONIC CONCENTRATION IN SURFACE WATER BODIES IN SARNATH

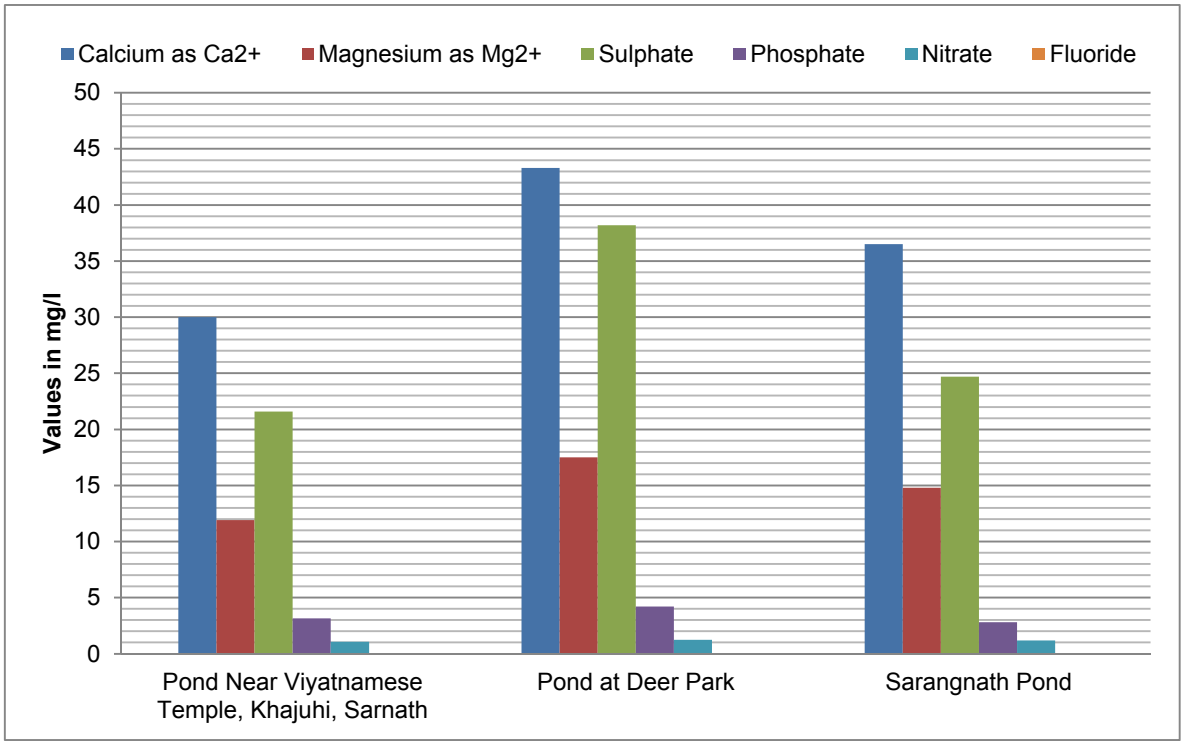


FIGURE 28: DO, BOD AND COD STATUS IN SURFACE WATER BODIES IN SARNATH

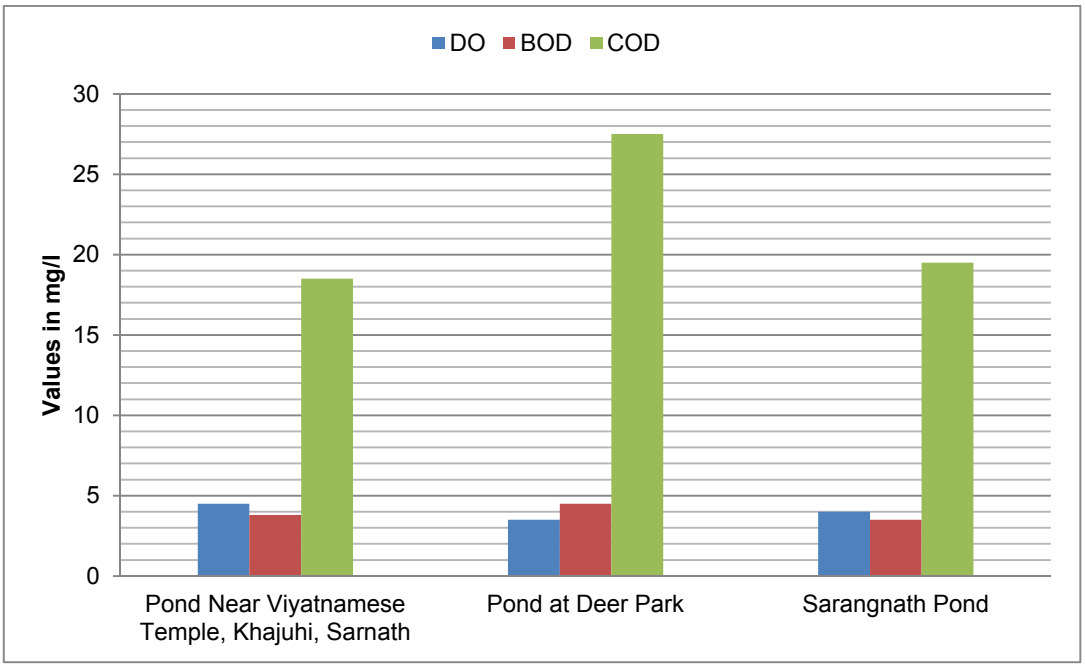


FIGURE 29: HEAVY METALS CONCENTRATION IN SURFACE WATER BODIES IN SARNATH

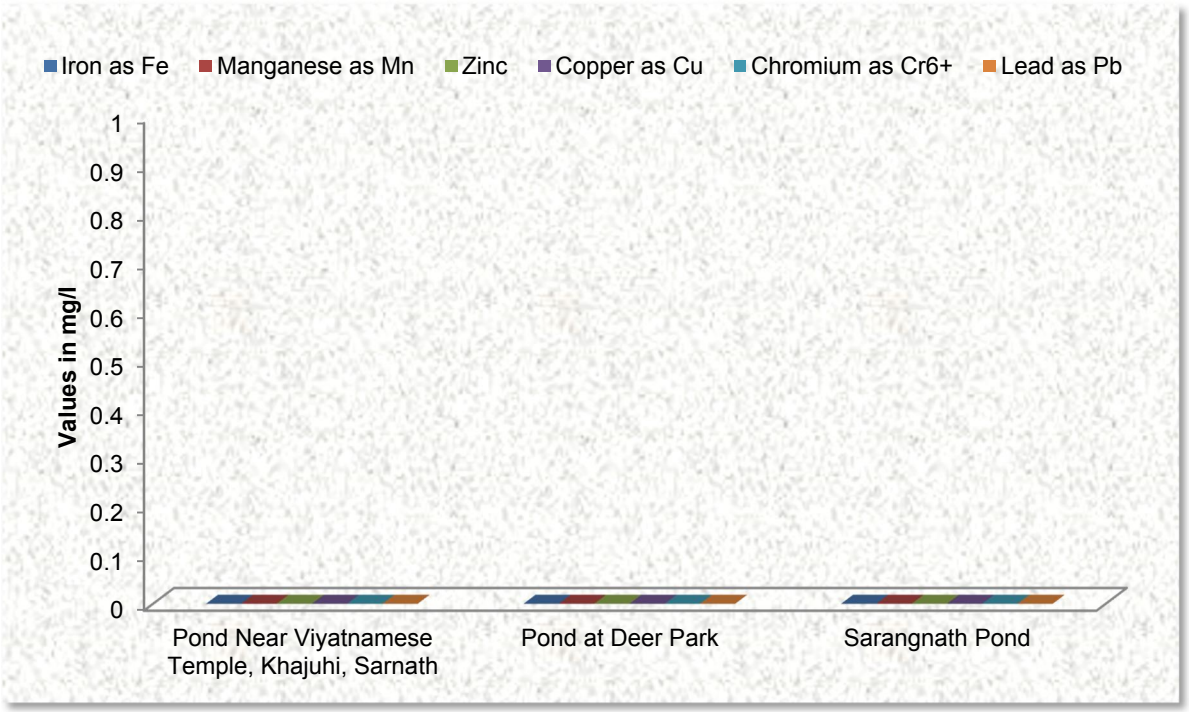
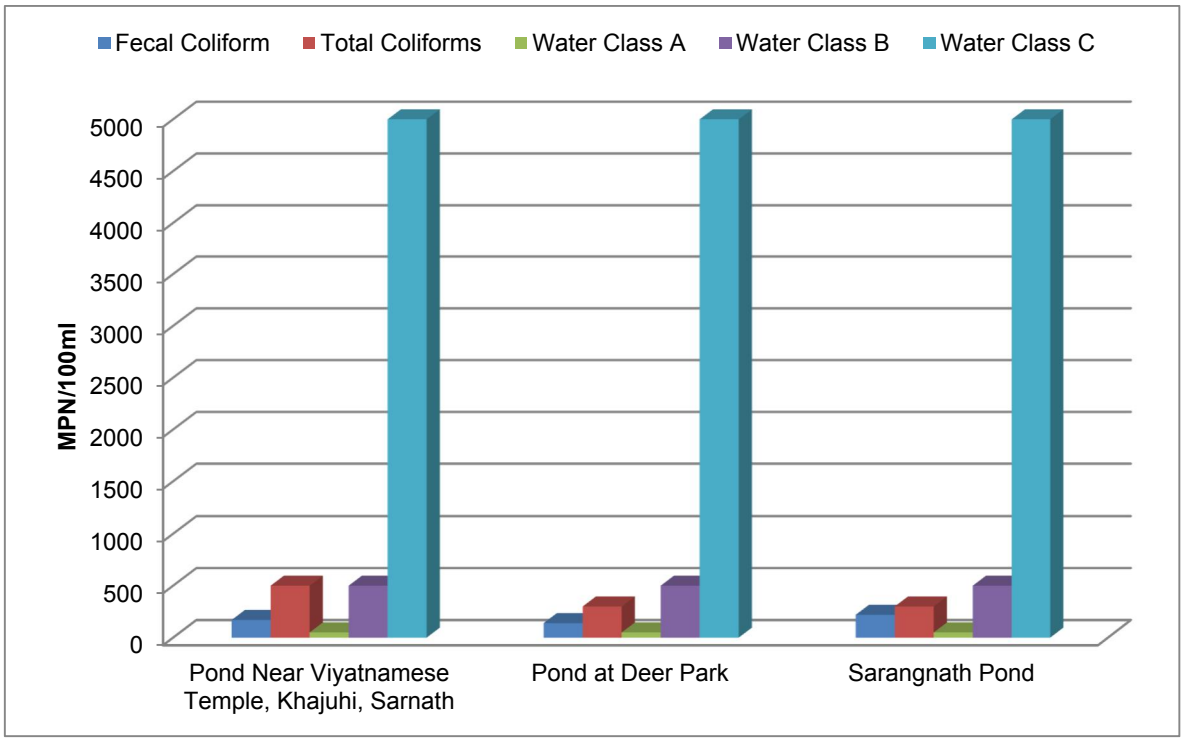


FIGURE 30: BACTERIOLOGICAL ANALYSES OF SURFACE WATER BODIES IN SARNATH



Results of pH in surface water analyses among all three different locations varied between 7.48 (Sarnangnath Pond) to 7.761 (Pond at Deer Park) were found within BIS drinking water standards (BIS 10500: 2012). Total dissolved solids (TDS) values were found (210 mg/l to 350mg/l) in water bodies found within prescribed limits of BIS standards (500 mg/l to 2000 mg/l).

The hardness of water bodies was mainly determined by the content of calcium and magnesium salts largely combined sulphates, chlorides and other anions. In all the three water bodies, concentration of total hardness varied in the range of 125mg/l (SW1) to 180 mg/l (SW2). In the three water bodies sampled, BOD concentration were found in the ranged from 3.5 mg/l (SW3) to 4.5 mg/l (SW2). As per CPCB water quality criteria (2009) for C class water, the threshold limit of BOD for inland surface water is 3 mg/l, when such waters are used as raw water for public supply and bathing purposes. According to Indian Council of Medical Research (ICMR, 1975), BOD values of 6 mg/l or more in surface water should be taken as boundary value for classifying the water body as polluted. Field survey shows that BOD values among all the three water bodies indicates that input of large amount of sewage effluents, human excreta etc are known to cause increase in BOD concentration in all water bodies.

Values of Dissolved oxygen were found from 3.5mg/l (SW3) to 4.5 mg/l (SW2). As per CPCB water quality criteria of designated use, concentration of Dissolved oxygen (DO) were found satisfactory for propagation of wildlife/ aquatic life except lower values of DO was reported from Pond at Deer Park.

Total coliform counts in all the three water bodies sampled were recorded as high ranged from 300 MPN/100ml (SW2 & SW3) and 500 MPN/100ml (SW1), respectively. In view of Faecal coliforms were also reported high in the ranged between 140 MPN/100ml (SW2) to 220 MPN/100ml (SW3). Apart from the above presence of E. Coli reported throughout all the water bodies.

Based on the coliform counts, all the water bodies fall between B and C satisfy the criteria laid down by the CPCB. As per CPCB water quality criteria, for Class C water, total coliform should be less than 500 MPN/100ml.

The Central Pollution Control Board (CPCB) developed criteria for surface water bodies to designate the best water uses for them. In the absence of any classification of lake water vis-a vis the criteria, the same have been used for classifying the water quality of surface water bodies in Sarnath. Concentration of BOD do not satisfy the criteria B and C class means that the water quality of the three sampled water bodies falls below the B and C water class.

Table 26 shows a comparison of the water quality of these three water bodies to CPCB water quality criteria, which indicates that pollution control measures are needed to restore and conserve these water bodies in the area/region.

Based on the findings, there is an urgent need to restore and conserve these water bodies near the subproject component/s helps to protect lentic ecosystem in the area/ region. Thus improves the natural scenic and aesthetic look of the area ultimately enhance visitors/tourist in the area.

Apart from the above, during field visit, one water body is largely degraded in the area namely as Pond at Khajuhi but its water spread area is almost upto near Viyatnamese temple (Gulabi Temple). Based on the finding this water body could be developed into Wetland to stop further degradation of natural ecosystem in the area. Water body has degraded due to encroachment, pollution by solid waste, sewage effluents and human excreta etc. There is an urgent need to restore/ conserve this pond into wetland in the area and enhance the local biodiversity and aquatic ecosystem in the area.

TABLE 25: CPCB WATER QUALITY CRITERIA OF DESIGNATED USE

Designated Best Use	Water class	Criteria
Drinking water source without conventional treatment but after disinfection	A	Total Coliforms Organism MPN/100 ml Should be 50 or less
		pH between 6.5 and 8.5
		Dissolved Oxygen 6mg/l or more
		Biochemical Oxygen Demand 5 days 20°C 2 mg/l or less
Outdoor Bathing (Organized)	B	Total Coliforms Organism MPN/100 ml Should be 500 or less

Designated Best Use	Water class	Criteria
		pH between 6.5 and 8.5
		Dissolved Oxygen 5 mg/l or more
		Biochemical Oxygen Demand 5 days 20°C 3 mg/l or less
Drinking water after conventional treatment and disinfection	C	Total Coliforms organism MPN/100 ml should be 5000 or less
		pH between 6.5 and 9.0
		Dissolved Oxygen 4 mg/l or more
		Biochemical Oxygen Demand 5 days 20°C 3 mg/l or less
Propagation of Wildlife and Fisheries	D	pH between 6.5 and 8.5
		Dissolved Oxygen 4 mg/l or more
		Free Ammonia (as N) 1.2 mg/l or less
Irrigation, industrial Cooling, Controlled Waste disposal	E	pH between 6.0 to 8.5
		Electrical conductivity at 25°C micro mhos/cm Max. 2250
		Sodium absorption ratio Max. 26
		Boron Max. 2 mg/l

(Source: *https://cpcb.nic.in/water-quality-criteria/*)

TABLE 26: COMPARISON OF WATER QUALITY IN SARNATH BASED ON CPCB WATER QUALITY CRITERIA

Water quality parameters considered	Criteria for Class B-C	Sarangnath Pond	Pond at Deer park	Pond at Khajuhi
BOD mg/l	2-3	3.8	4.5	3.5
Total Coliforms MPN/ 100ml	500-5000	300	300	500
Water Quality		Below C Class	Below C Class	Below C Class

Note: Above table shows that BOD values among all the water bodies shows higher the values reported as required for B and C class waters, however Total Coliforms values falls between B-C class of waters throughout all the water bodies. But overall rating of water quality among all the water bodies falls below C class waters in Sarnath due to pollution by sewage effluent, waste, human excreta etc.

4.7 AIR QUALITY

The ambient air quality at/near the subproject component was measures to assess its conformity to standards of National Ambient Air Quality Standards (NAAQS). The baseline data was assessed using air quality monitoring network was based on representatives of likely impact areas. Given the absence of ambient air quality data for Sarnath, ambient air quality monitoring was conducted in month of October 2021 with the help of laboratory in the name of Eko Pro Engineers Pvt. Ltd., Ghaziabad, U.P which is recognized by Ministry of Environment, Forest and Climate Change

(MoEF&CC), Government of India and accredited by NABL. The monitoring was conducted at six locations as per the standard protocol prescribed by the Central Pollution Control Board (CPCB), Govt. of India.

TABLE 27: AMBIENT AIR QUALITY MONITORING LOCATIONS AND PARAMETERS ANALYSED

Station Code	Location	Parameters Analysed
AAQ1	Hanuman Mandir, Khajuhi, Sarnath	PM10, PM2.5, NO_2, SO_2 & CO
AAQ2	Station Road, Sarnath	
AAQ3	Near Post Office, Ashok Road, Sarnath	
AAQ4	Buddha Theme Park, Khajuhi, Sarnath	
AAQ5	Near Chaukhandi Stupa, Rishipattan Road, Sarnath	
AAQ6	Jain Temple, Dharampala Road, Sarnath	

Five parameters of ambient air were monitored viz. Particulate matter (PM10), PM 2.5, Oxides of Nitrogen (NO2), Sulphur Dioxide (SO2) and Carbon Monoxide (CO). Results of monitoring were compared with the National Ambient Air Quality Standards (NAAQS) limits as given by the Central Pollution Control Board (CPCB), 2009. During the monitoring period, values of PM10 varied ranged between minimum 82.1 µg/m3 at (AAQ1) Hanuman Mandir, Khajuhi and maximum 94.1 µg/m3 at (AAQ2) Station Road, Sarnath. Particulate Matter (PM2.5) values were found ranged between minimum (45.9 µg/m3) at Hanuman Mandir, Khajuhi and Maximum (50.6 µg/m3) at Jain Temple, Dharampala Road, Sarnath and well within limits of standards as given by CPCB. Values of PM10 and PM2.5 were found within limits of NAAQ standards as given by CPCB throughout all sampling station in Sarnath.

Values of Oxides of Nitrogen (NO2) varied in the range between 24.9 µg/m3 (minimum) near Chaukhandi Stupa (proposed parking) on Rishipattan Road and 28.4 µg/m3 (maximum) at Buddha Theme Park, Khajuhi Sarnath. Values of Sulphur Dioxides (SO2) found varied in the ranged minimum (10.2 µg/m3) at (AAQ6) Jain Temple, Dharampala Road and maximum (12.1 µg/m3) at AAQ4 Buddha Theme Park, Khajuhi, Sarnath. Carbon Monoxides (CO) values varied ranged between 0.79 mg/m3 to 0.92 mg/m3 through all sampling stations. All the values of NO2, SO2 and CO were found within limits of NAAQ standards. Results of Ambient air quality in Sarnath are given in Table 28.

TABLE 28: RESULTS OF AMBIENT AIR QUALITY AT DIFFERENT LOCATIONS IN SARNATH

Sr. No.	Parameters	Test Methods	Units	Limits as per CPCB Notification, 18th Nov. 2009	Results					
					(AAQ1)	(AAQ2)	(AAQ3)	(AAQ4)	(AAQ5)	(AAQ6)
1	Particulate Matter (PM 10)	IS:5182 (P-23) (Gravimetric)	$\mu g/m^3$	100	82.1	94.1	90.6	88.4	86.7	85.9
2	Particulate Matter (PM 2.5)	EK0/CHEM/SOP/AAQ -01 (Gravimetric)	$\mu g/m^3$	60	45.9	49.7	48.2	47.2	47.8	50.6
3	Sulphur Dioxide (as SO_2)	IS:5182 (P-2) Improved West and Gaeke	$\mu g/m^3$	80	11.6	11.2	11.7	12.1	10.7	10.2
4	Nitrogen Dioxide (as NO_2)	IS:5182 (P-6) Jacob & Hochheiser	$\mu g/m^3$	80	25.4	26.1	27.4	28.4	24.9	26.7
5	Carbon Monoxide (as CO)	IS:5182 (P-10) Dispersive Infra Red (NDIR)	mg/m^3	4.0	0.81	0.92	0.84	0.87	0.78	0.79

*(*Source: *Lab Analysis Reports of Ambient Air Quality)*

FIGURE 31: CONCENTRATION OF PM10 THROUGHOUT ALL SAMPLING LOCATIONS

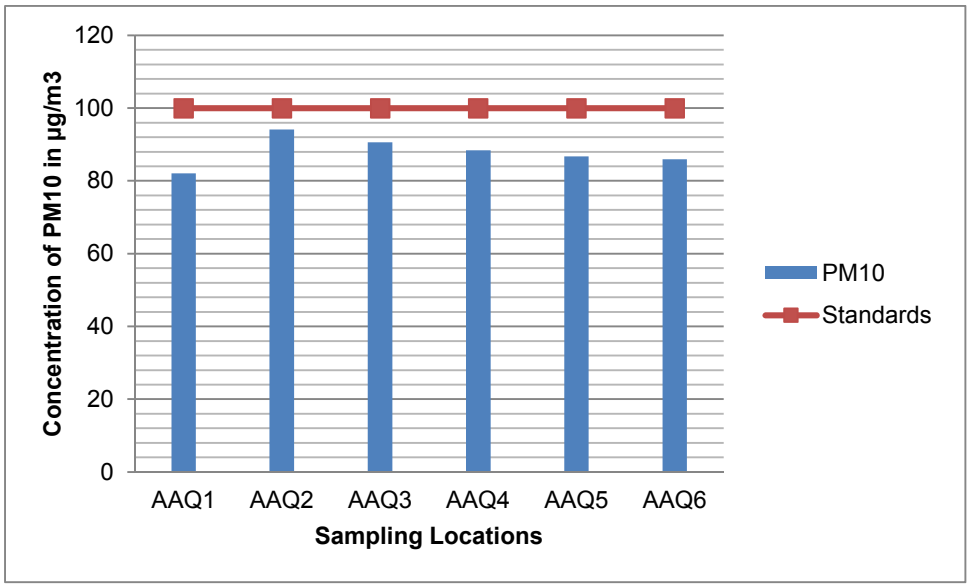


FIGURE 32: CONCENTRATION OF PM2.5 THROUGHOUT ALL SAMPLING LOCATIONS

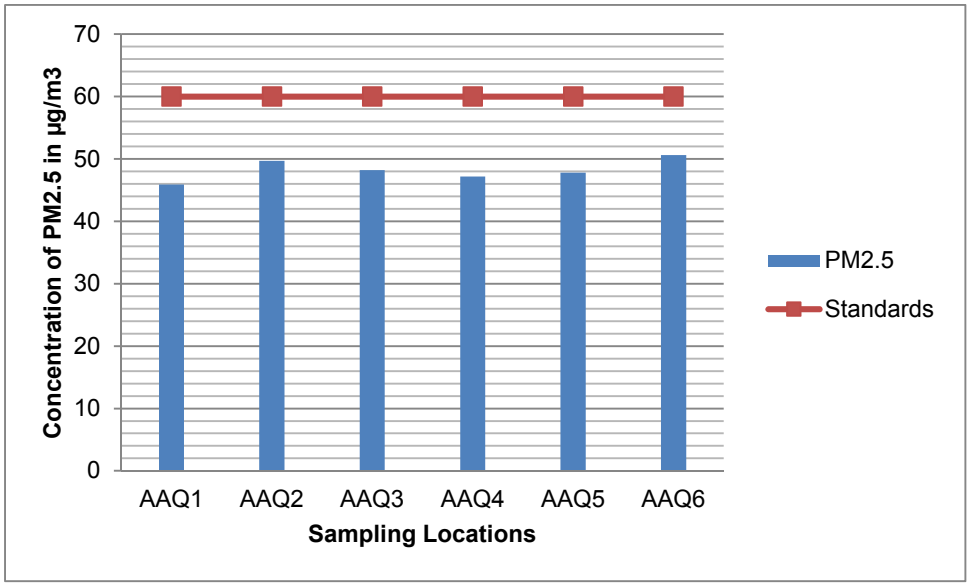


FIGURE 33: CONCENTRATION OF NO2 THROUGHOUT ALL SAMPLING LOCATIONS

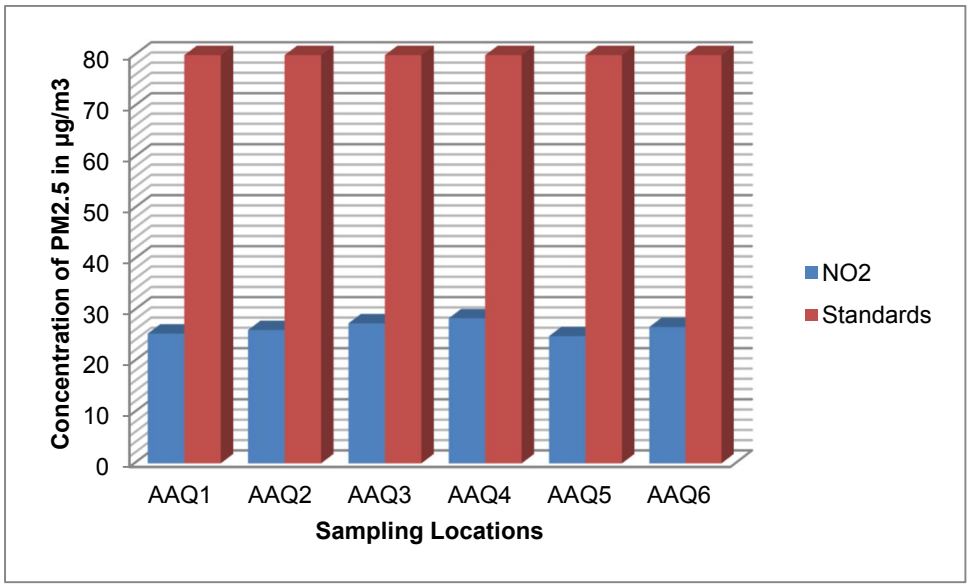


FIGURE 34: CONCENTRATION OF SO2 THROUGHOUT ALL SAMPLING LOCATIONS

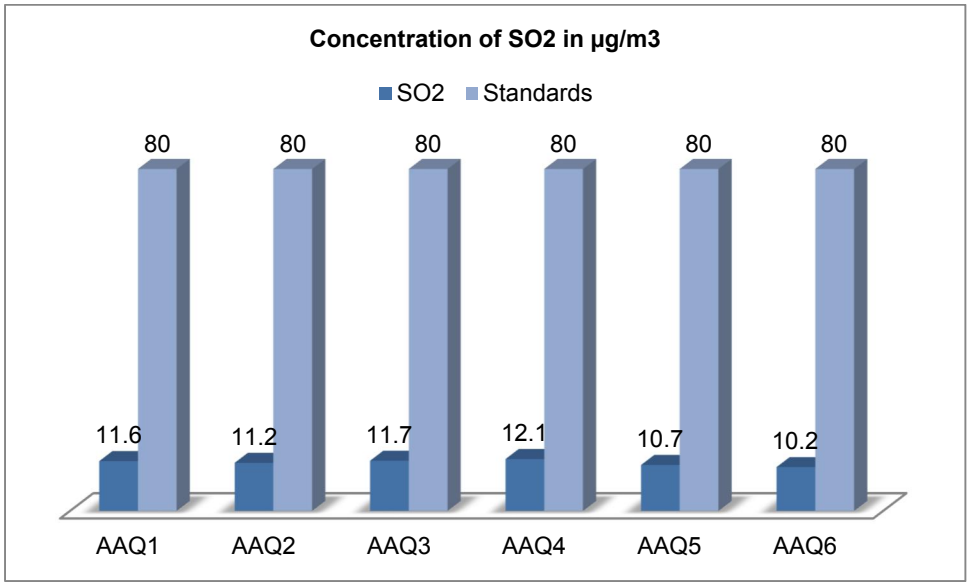
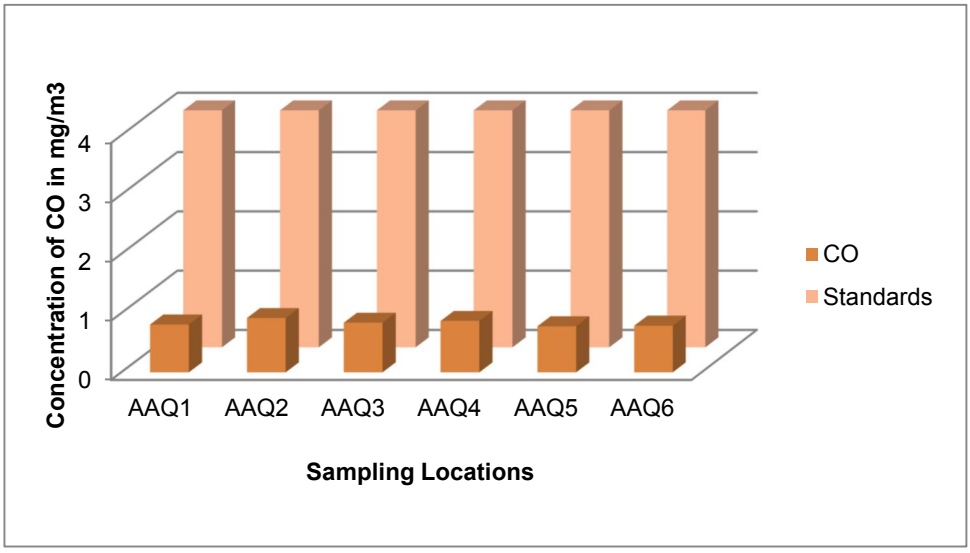


FIGURE 35: CONCENTRATION OF CO THROUGHOUT ALL SAMPLING LOCATIONS



4.8 NOISE LEVEL

Environmental and health impacts of noise vary from noise induced hearing loss to annoyance depending on loudness of noise level and individual's tolerance levels. Important factors to determine noise levels include distance from the noise source, natural or manmade barriers between the source and the receptors, climatic/ weather conditions etc.

In view of Noise quality, Sarnath has no data on noise. A reconnaissance survey was conducted to identify the major noise generating sources/ sensitive receptors if any in/ near the subproject locations. The survey assessed noise at different noise generating sources based on daily activities in six locations at /near the subproject sites including ASI archaeological sites, Noise level in each location were recorded for 24 hours (Day time and Night Time) and monitoring of noise was conducted according to the Central Pollution Control Board guidelines.

TABLE 29: NOISE MONITORING LOCATION IN SARNATH

Station Code	Location
N1	Near Post office, Ashok Road, Sarnath
N2	Jain temple, Dharampala Road, Sarnath
N3	Station Road , Sarnath
N4	Buddha Theme Park, Khajuhi, Sarnath
N5	Hanuman mandir, Khajuhi, Sarnath
N6	Near Chaukhandi Stupa,Rishipattan Road, Sarnath

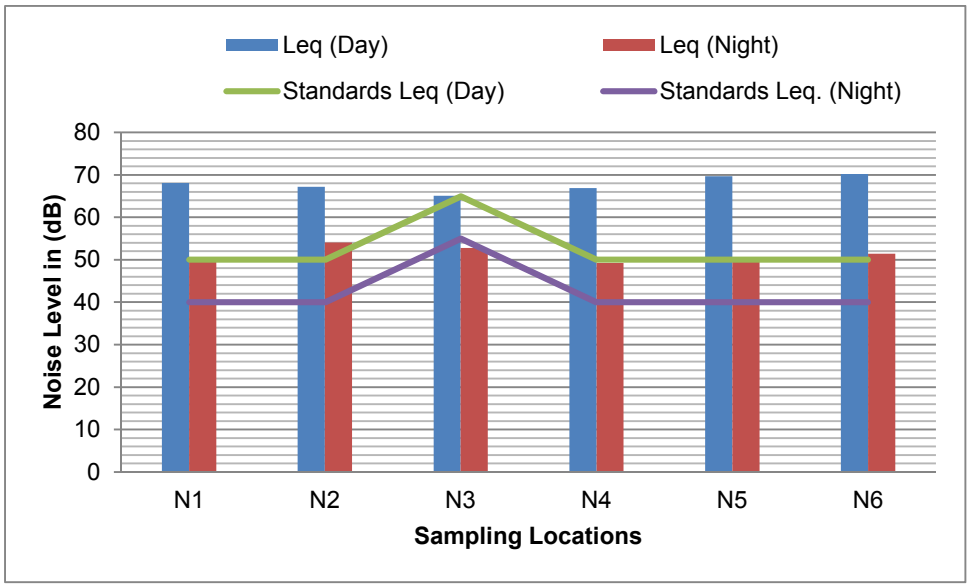
Results of noise monitoring in Sarnath at/near subproject components was conducted in the month of October 2021 and given in table 30.

TABLE 30: RESULTS OF NOISE MONITORING AT DIFFERENT LOCATIONS IN SARNATH

Station Code	Location	Test Methods	Unit	Noise Level in dB		Limits as per "The Noise Pollution & Control Rules, 2000"		Area Category
				Leq (Day)	Leq (Night)	Leq (Day)	Leq (Night)	
N1	Near Post office, Ashok Road, Sarnath	EKO/CHEM/SOP/S/N-01	dB (A)	68.1	50.4	50	40	Silence Zone
N2	Jain Temple, Dharampala Road, Sarnath	EKO/CHEM/SOP/S/N-01	dB(A)	67.2	54.1	50	40	Silence Zone
N3	Station Road, Sarnath	EKO/CHEM/SOP/S/N-01	dB (A)	65.1	52.8	65	55	Commercial Area
N4	Buddha Theme Park, Khajuhi, Sarnath	EKO/CHEM/SOP/S/N-01	dB(A)	66.9	49.2	50	40	Silence Zone
N5	Hanuman mandir, Khajuhi, Sarnath	EKO/CHEM/SOP/S/N-01	dB (A)	69.7	50.5	50	40	Silence Zone
N6	Near Chaukhandi Stupa, Rishipattan Road, Sarnath	EKO/CHEM/SOP/S/N-01	dB (A)	70.2	51.4	50	40	Silence Zone

(Source: *Lab Analysis report of Noise Monitoring)*

FIGURE 36: NOISE LEVEL DURING DAY TIME AND NIGHT TIME THROUGHOUT ALL



Sampling locations

Based on the above results of noise level in the study area, higher the noise level was reported from all the five locations except station road as all the noise monitoring locations falls within silence zone and shows slightly higher the day and night time values. Station road comes under commercial area and values were reported within prescribed standards of CPCB for day and night time noise level for commercial area.

4.9 ECOLOGICAL RESOURCES

4.9.1 FORESTS

As per Forest Survey of India, 2019, District Varanasi has 17.10 sq.km of area under forest cover i.e. 1.11 percent of total geographical area. It has 1.10 sq.km of area under moderate dense forest and 16.10 sq.km of area under open forest. These forests are Tropical Dry Deciduous in nature. There is no protected/ reserved forest area near the project sites at Sarnath.

4.9.2 ROADSIDES TREES

In Sarnath, linear plantation along the road is exist of various species of trees such as Ashok, Kadam, Gulmohar, Jackfruit, Amaltash, Chhitvan, Semer, Neem, Peepal, Sheesham, Pakar, Amara, Bargad, Jamun and Mango etc. are prominent in the area. Ashok and Kadam is the dominant tree along the road in Sarnath. Following trees species have encountered during field visit of the study area near/along the roads in Saranth.

TABLE 31: INVENTORY OF TREES SPECIES ALONG THE ROADS IN SARNATH

Sr. No.	Place	Name of Trees	Botanical Name	Side of Road	No. of Trees
1	Ashoka Road	Kadam	*Mitragyna parvifolia*	Right	3
2	Ashoka Road	Kadam	*Mitragyna parvifolia*	Left	6
3	Ashoka Road	Ashok	*Polyalthia longifolia*	Right	26
4	Ashoka Road	Ashok	*Polyalthia longifolia*	Left	22
5	Ashoka Road	Gulmohar	*Delonix regia*	Right	6
6	Ashoka Road	Gulmohar	*Delonix regia*	Left	7
7	Ashoka Road	Jackfruit	*Artocarpus heterophyllus*	Right	5
8	Ashoka Road	Jackfruit	*Artocarpus heterophyllus*	Left	2
9	Ashoka Road	Amaltash	*Cassia fistula*	Right	3
10	Ashoka Road	Amaltash	*Cassia fistula*	Left	5
11	Ashoka Road	Saptparni	*Alstonia scholaris*	Right	5
12	Ashoka Road	Saptparni	*Alstonia scholaris*	Left	3
13	Ashoka Road	Semer	*Bombax ceiba*	Right	2
14	Ashoka Road	Semer	*Bombax ceiba*	Left	2
15	Ashoka Road	Neem	*Azadirachta indica*	Left	1
16	Dharampala Road	Ashok	*Polyalthia longifolia*	Left	32
17	Dharampala Road	Ashok	*Polyalthia longifolia*	Right	4
18	Dharampala Road	Peepal	*Ficus religiosa*	Left	3
19	Dharampala Road	Peepal	*Ficus religiosa*	Right	2
20	Dharampala Road	Gulmohar	*Delonix regia*	Left	1
21	Dharampala Road	Neem	*Azadirachta indica*	Left	7
22	Dharampala Road	Neem	*Azadirachta indica*	Right	1
23	Dharampala Road	Jamun	*Syzygium cumini*	Left	1
24	Dharampala Road	Semer	*Bombax ceiba*	Left	1
25	Dharampala Road	Amaltash	*Cassia fistula*	Left	1
26	Dharampala Road	Seesham	*Dalbergia sissoo*	Left	1
27	Dharampala Road	Saptparni	*Alstonia scholaris*	Left	6
28	Dharampala Road	Saptparni	*Alstonia scholaris*	Right	3
29	Munnari Road	Ashok	*Polyalthia longifolia*	Left	2
30	Munnari Road	Ashok	*Polyalthia longifolia*	Right	23
31	Munnari Road	Neem	*Azadirachta indica*	Left	10
32	Munnari Road	Neem	*Azadirachta indica*	Right	2
33	Munnari Road	Saptparni	*Alstonia scholaris*	Left	9
34	Munnari Road	Saptparni	*Alstonia scholaris*	Right	6
35	Munnari Road	Peepal	*Ficus religiosa*	Left	1
36	Munnari Road	Kadam	*Mitragyna parvifolia*	Left	5
37	Munnari Road	Kadam	*Mitragyna parvifolia*	Right	5
38	Munnari Road	Seesham	*Dalbergia sissoo*	Left	2
39	Munnari Road	Pakhar	*Ficus lacor*	Left	1

Sr. No.	Place	Name of Trees	Botanical Name	Side of Road	No. of Trees
40	Munnari Road	Amara	*Albizia amara*	Left	1
41	Munnari Road	Amara	*Albizia amara*	Right	1
42	Munnari Road	Semer	*Bombax ceiba*	Left	4
43	Munnari Road	Semer	*Bombax ceiba*	Right	3
44	Munnari Road	Amaltash	*Cassia fistula*	Left	2
45	Munnari Road	Amaltash	*Cassia fistula*	Right	1
46	Munnari Road	Bargad	*Ficus bangalensis*	Left	1
47	Khajuhi Road	Neem	*Azadirachta indica*	Left	1
48	Khajuhi Road	Jamun	*Syzygium cumini*	Right	1
49	Khajuhi Road	Seesham	*Dalbergia sissoo*	Left	1
50	Station Road	Gulmohar	*Delonix regia*	Left	3
51	Station Road	Gulmohar	*Delonix regia*	Right	4
52	Station Road	Amaltash	*Cassia fistula*	Left	12
53	Station Road	Amaltash	*Cassia fistula*	Right	5
54	Station Road	Peepal	*Ficus religiosa*	Right	2
55	Station Road	Saptparni/ Cheetvan	*Alstonia scholaris*	Left	2
56	Station Road	Saptparni/ Cheetvan	*Alstonia scholaris*	Right	6
57	Station Road	Cheetvan	*Alstonia scholaris*	Right	3
58	Station Road	Cheetvan	*Alstonia scholaris*	Left	9
59	Station Road	Bargad	*Ficus bangalensis*	Left	6
60	Station Road	Semer	*Bombax ceiba*	Left	6
61	Station Road	Semer	*Bombax ceiba*	Right	3
62	Station Road	Kadam	*Mitragyna parvifolia*	Right	3
63	Station Road	Kadam	*Mitragyna parvifolia*	Left	3
64	Station Road	Goolar	*Ficus glomerata*	Left	1
65	Sarangnath Road	Peepal	*Ficus religiosa*	Left	1
66	Sarangnath Road	Peepal	*Ficus religiosa*	Right	1
67	Sarangnath Road	Bargad	*Ficus bangalensis*	Left	1
68	Sarangnath Road	Pakhar	*Ficus lacor*	Left	1
69	Sarangnath Road	Saptparni	*Alstonia scholaris*	Right	1
70	Sarangnath Road	Kadam	*Mitragyna parvifolia*	Left	3
71	Sarangnath Road	Kadam	*Mitragyna parvifolia*	Right	3
72	Rishipattan Road	Jamun	*Syzygium cumini*	Left	1
73	Rishipattan Road	Jamun	*Syzygium cumini*	Left	1
74	Rishipattan Road	Amaltash	*Cassia fistula*	Left	2
75	Rishipattan Road	semer	*Bombax ceiba*	Left	15
76	Rishipattan Road	semer	*Bombax ceiba*	Right	3
77	Rishipattan Road	Kadam	*Mitragyna parvifolia*	Left	20
78	Rishipattan Road	Kadam	*Mitragyna parvifolia*	Right	17

Sr. No.	Place	Name of Trees	Botanical Name	Side of Road	No. of Trees
79	Rishipattan Road	Sahjan	*Moringa oleifera*	Right	4
80	Rishipattan Road	Peepal	*Ficus religiosa*	Left	1
81	Rishipattan Road	Ashok	*Polyalthia longifolia*	Left	4
82	Rishipattan Road	Ashok	*Polyalthia longifolia*	Right	4
83	Rishipattan Road	Gulmohar	*Delonix regia*	Left	12
84	Rishipattan Road	Gulmohar	*Delonix regia*	Right	1
85	Rishipattan Road	Kathal	*Artocarpus heterophyllus*	Right	2
86	Rishipattan Road	Bargad	*Ficus bangalensis*	Right	4
87	Rishipattan Road	Mango	*Mangifera indica*	Right	1
88	Rishipattan Road	Mango	*Mangifera indica*	Left	3
89	Rishipattan Road	Neem	*Azadirachta indica*	Left	6
90	Rishipattan Road	Neem	*Azadirachta indica*	Right	15
91	Rishipattan Road	Pakhar	*Ficus lacor*	Right	3
				Total	**441**

FIGURE 37: FLORISTIC COMPOSITION OF STUDY AREA



Ficus bangalensis



Ficus bangalensis



Cassia fistula



Cassia fistula



Polyalthia longifolia



Ficus religiosa



Albizia amara



Delonix regia



Bombax ceiba



Bombax ceiba



Ficus lacor



Alstonia scholaris



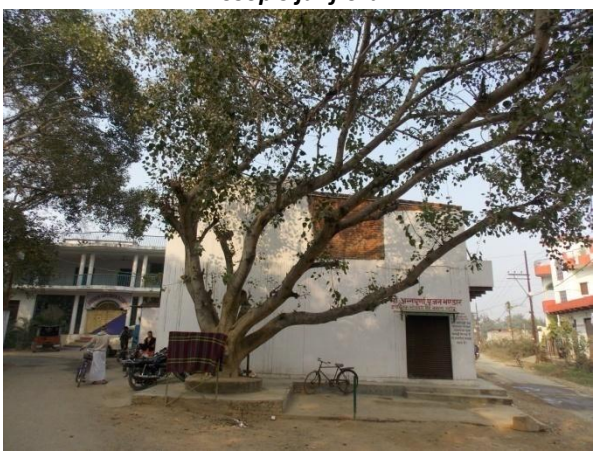
Delonix regia



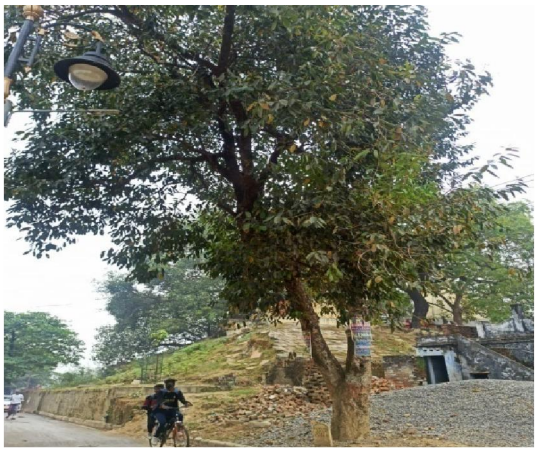
Prosopis juliflora



Ficus religiosa



Ficus religiosa



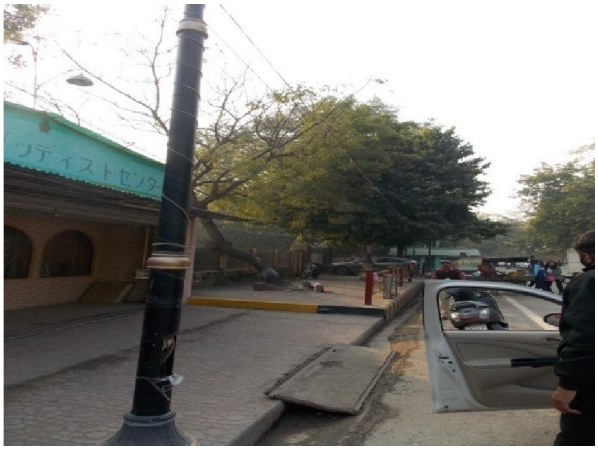
Syzygium cumini



Ficus glomerata



Artocarpus heterophyllus



Azadirachta indica



Mitragyna parvifolia



Dalbergia sissoo



Moringa oleifera



Mangifera indica



Lantana camara



Ziziphus nummularia



Parthenium hysterophorus



Achryanthus aspera



Ricinus communis



Calotropis procera

4.9.3 FLORA & FAUNA

Environmental impact assessment is concerned with the study of proposed developmental activities or action on biodiversity (flora and fauna) and prediction of impacts and suggest mitigation measures due to proposed developmental activities in the area/region. Environment of Sarnath in the area/region attracts more tourist/ visitors of domestic as well as international by providing way of natural features such as Deer Park, Water bodies and plantation along the roads. In view of characteristics of biological environment in Sarnath, an ecological survey of the study area was conducted particularly with reference to listing of species and assessment of the existing baseline ecological conditions of the study area.

Primary data has been collected through extensive survey of the area during post monsoon period with reference to flora and fauna. Secondary information/data of flora and fauna of the area have collected from different sources i.e. Forest Department, Forest working plan, literature/ reports etc. On the basis of onsite observation as well as forest department records, the checklist of flora and fauna was prepared.

TABLE 32: FLORAL COMPOSITION IN AND AROUND SARNATH

Sr. No.	Vernacular Name	Scientific Name	Family
A.	**Trees**		
1	Saptparni/ Chhitvan	*Alstonia scholaris*	Apocynaceae
2	Auri	*Acacia auriculiformis*	Mimosaceae
3	Revanja	*Acacia leucophloea (roxb)Wild*	Mimosaceae
4	Karam	*Adina cordifolia*	Rubiaceae
5	Bel	*Aegle marmelos (L.)Corr.*	Rutaceae
6	Mahanimb	*Ailanthus excelsa Roxb.*	Simaroubaceae
7	Black Siris	*Albizia lebbeck(L)Benth.*	Mimosaceae
8	White Siris	*Albizia procera*	Mimosaceae
9	Dhawa	*Anogeissus latifolia (Roxb. Ex DC) Wall*	Combretaceae
10	Katahal	*Artocarpus integrifolius*	Moraceae
11	Neem	*Azadirachta indica A.Juss.*	Meliaceae

Sr. No.	Vernacular Name	Scientific Name	Family
12	Gulabi Kachnar	*Bauhinia purpurea L.*	Caesalpiniaceae
13	Bidi Leaf Tree	*Bauhinia racemosa Lam.*	Caesalpiniaceae
14	Kachnar	*Bauhinia variegata*	Caesalpiniaceae
15	Latkan	*Bixa olerina*	Boranginaceae
16	Semal	*Bombax ceiba*	Bombacaceae
17	Papita	*Carica papaya L.*	Caricaceae
18	Amaltash	*Cassia fistula*	Caesalpiniaceae
19	Pink Cassia	*Cassia javanica L.*	Caesalpiniaceae
20	Chakundi	*Cassia siamea Lam.*	Caesalpiniaceae
21	Janglisaru	*Casuarina equisetifolia L.*	Casuarinaceae
22	Kapok	*Ceiba pentandra*	Bombacaceae
23	Indian Cherry/Gunda	*Cordia dichotoma Forst.*	Ehretiaceae
24	Sheesham	*Dalbergia latifolia Roxb.*	Fabaceae
25	Gulmohar	*Delonix regia (Bojer) Raf.*	Caesalpiniaceae
26	Tendu	*Diospyros melanoxylon Roxb.*	Ebenaceae
27	Baans	*Dendrocalamus strictus*	Poaceae
28	Amla	*Emblica officinalis*	Euphorbiaceae
29	Pangara	*Erythrina indica*	Fabaceae
30	Safeda	*Eucalyptus sp.*	Myrtaceae
31	Dumar	*Ficus hispida*	Moraceae
32	Gular	*Ficus racemosa L.*	Moraceae
33	Pipal	*Ficus religiosa L.*	Moraceae
34	Gambhar	*Gmelina arborea*	Bignoniaceae
35	Falsa	*Grewia asiatica*	Tiliaceae
36	Chilbil	*Holoptelea integrifolia (Roxb.) Planch.*	Ulmaceae
37	Nandi Tree	*Lagerstroemia lanceolata*	Lythraceae
38	Sidha	*Lagerstroemia parviflora*	Lythraceae
39	Jarul	*Lagerstroemia speciosa*	Lythraceae
40	Mohin	*Lannea coromandelica*	Anacardiaceae
41	Subabool	*Leucaena lencocephala*	Mimosaceae
42	Mahua	*Madhuca latifolia (Roxb.) Chevalier*	Sapotaceae
43	Rohini / Sinduri	*Mallotus philippens*	Euphorbiaceae
44	Mango	*Magnifera indica L.*	Anacardiaceae
45	Bakain	*Melia azedarach L.*	Meliaceae
46	Maulsari	*Mimusops elengi L.*	Sapotaceae
47	Kadam	*Mytragyna parvifolia*	Rubiaceae
48	Sahjan	*Moringa oleifera Lam.*	Moringaceae
49	Aal	*Morinda pubescens*	Rubiaceae
50	Peela gulmohar	*Peltophorum pterocarpum*	Caesalpiniaceae
51	Khajur	*Phoenix sylvestris (L.) Roxb.*	Palmae
52	Chameli	*Plumeria alba*	Apocynaceae
53	Champa	*Plumeria rubra L.*	Apocynaceae
54	False Ashok	*Polyalthia longifolia*	Anonaceae
55	Karanj	*Pongamia pinnata (L.)Pierre*	Fabaceae
56	Palm	*Rosytonea regia*	Palmae
57	Kusum	*Schleichera oleosa (Lour.) Oken*	Sapindaceae
58	Sal	*Shorea robusta Roxb.*	Dipterocarpaceae
59	Jamun	*Syzygium cumini (L.) Skeels.*	Myrtaceae

Sr. No.	Vernacular Name	Scientific Name	Family
60	Kath Jamun	*Syzygium heyneanum (Duthie) Wall.*	Myrtaceae
61	Imli	*Tamarindus indica L.*	Caesalpiniaceae
62	Teak	*Tectona grandis*	Verbenaceae
63	Arjun	*Terminalia arjuna*	Combretaceae
64	Dudhi	*Wrightia tinctorea*	Apocynaceae
65	Ber	*Ziziphus mauritiana Lam.*	Rhamnaceae
66	kathbaans	*Bambusa arundinacea*	Poaceae
67	Babool	*Acacia nilotica*	Fabaceae
68	Vilayati Babool	*Prosopis juliflora*	Fabaceae
69	Bargad	*Ficus benghalensis L.*	Moraceae
70	Pakhar	*Ficus lacor*	Moraceae
B.	**Shrubs & Herbs**		
1	Moraba	*Agave americana L.*	Agavaceae
2	Jangali Pudina	*Ageratum conyzoides*	Asteraceae
3	Ghrit Kumari	*Aloe vera (L.) Burm*	Liliaceae
4	Kanchari,Gudarishaak	*Alternanthera sessile (L.) R.Br.*	Amaranthaceae
5	Chatta ki Ghas, Jhuhi Ghas	*Alysicarpus monilifer (L.) DC.*	Fabaceae
6	Sharifa	*Annona squamosal*	Anonaceae
7	Peela Dhatura	*Argemone mexicana L.*	Papaveraceae
8	Baans	*Bambusa arundinacea*	Poaceae
9	Kumra	*Bidens pilosa*	Asteraceae
10	Satha	*Boerhaavia diffusa*	Nyctaginaceae
11	Bari Kasondi, Kasunda	*Cassia occidentalis L.*	Caesalpiniaceae
12	Galgal / Purak	*Citrus medica L.*	Rutaceae
13	Arni	*Clerodendrum phlomidis L.*	Verbenaceae
14	Croton	*Codiaeum veriegatum*	Euphorbiaceae
15	Aruwi	*Colocasia esculanta (L.) Schott.*	Araceae
16	Nilkanta	*Duranta repens L.*	Verbenaceae
17	Jalkumbhi	*Eichhornia crassipes (Mart.) Solms.*	Pontederiaceae
18	Gudhal	*Hibiscus rosa-sinensis*	Malvaceae
19	Behya	*Ipomoea carnea jacq.*	Convolvulaceae
20	Arush / Singhparni	*Justicia adhatoda*	Acanthaceae
21	Henna / Mehandi	*Lawasonia inermis L.*	Lythraceae
22	Fountain Palm	*Livistonia chinensis (jacq.) r Br.*	Palmae
23	Malabar melastome	*Melastoma malabathricum*	Melastomaceae
24	Karri Patta	*Murraya koenigii (L.) Spreng.*	Rutaceae
25	Har Singar	*Nyctanthes arbor-tristis L.*	Oleaceae
26	Arandi	*Ricinus communis*	Euphorbiaceae
27	Gulaab	*Rosa sp.*	Rosaceae
28	Baraiyra	*Sida acuta*	Malvaceae
29	Genda	*Tagatus erectus*	Asteraceae
30	Sarpunkha	*Tephrosia purpurea (L.) Pers.*	Fabaceae
31	Kaner	*Thevetia nerifolia*	Apocynaceae
32	Gokhuru	*Tribulus terrestris L.*	Zygophyllaceae
33	Tilak	*Wendlandia heynei*	Rubiaceae
34	Dhawain	*Woodfordia fruticosa (L.) kuntz*	Lythraceae
35	Rai Munia	*Lantana camera*	Varbenaceae

Sr. No.	Vernacular Name	Scientific Name	Family
36	Gajar Ghass	*Parthenium hysterophorus*	Asteraceae
37	Madaar	*Calotropis procera*	Apocynaceae
38	Safed Aak	*Calotropis gigantia*	Apocynaceae
39	Kanphuli	*Tridex procumbens*	Asteraceae
40	Kanta chaulai	*Amaranthus spinosus*	Amaranthaceae
41	Bhadbhadwa/Satyanashi	*Argemone maxicana*	Papaveraceae
42	Jhahrberi	*Ziziphus nummularia*	Rhamnaceae
43	Latjeera/Chirchira	*Achyranthes aspera*	Amaranthaceae
44	Badi indrayan	*Citrullus colocynthis*	Cucurbitaceae
45	Garundi	*Alternanthera sessilis*	Amaranthaceae
C. Grasses			
1	Injan/Anjana	*Cenchrus ciliaris*	Poaceae
2	Kaans	*Saccharum spontaneum*	Poaceae
3	Kala Lampa	*Heteropogan contortus*	Poaceae
4	Guner/Ganair	*Themeda quadrivalvis*	Poaceae
5	Marvel grass	*Dichanthium annulatum*	Poaceae
6	Daab	*Desmostachya bipinnata*	Poaceae
7	Doob	*Cynodon dactylon*	Poaceae
8	Bhoonj	*Saccharum munja*	Poaceae
9	Lappa/Needle grass	*Aristida adscensionis*	Poaceae
D. Climbers			
1	Amarbel	*Cuscuta reflexa*	Convolvulaceae
2	Aal	*Mimosa himalayana*	Fabaceae
3	Aadi	*Capparis sepiaria*	Capparaceae
4	Kundru	*Coccinia indica*	Cucurbitaceae
5	Makoh	*Ziziphus oenoplia*	Rhamnaceae
6	Shatavar	*Asparagus racemosus*	Asparagaceae
7	Maljan	*Bauhinia vahlii*	Fabaceae

TABLE 33: FAUNAL COMPOSITION IN AND AROUND SARNATH

Sr. No.	Common Name	Scientific Name	Family	IUCN Red List Categorization	Schedule as per WP Act, 1972
A. Aves					
1	Common Bustard quail (Chhoti Bater)	*Turnix susnitator*	Turnicidae	-	IV
2	Blue Roak Pigeon	*Columba livia*	*Columbidae*	LC	IV
3	Little grebe(Pandubbi)	*Podi ruficellis*	*Podicipediformes*	LC	IV
4	Grey heron	*Ardea cincrea*	*Ardeidae*	LC	IV
5	Surkhiya Bagula	*Bubulcus ibis*	*Ardeidae*	LC	IV
6	Black winged Kite (Cheel)	*Elanus cacruleus*	*Accipitridae*	LC	IV
7	Common Hawk cuckoo (Papiha)	*Cuculus varius*	*Cuculidae*	LC	IV
8	Indian Cuckoo (Papiha)	*Cuculus micropterus*	*Cuculidae*	LC	IV

Sr. No.	Common Name	Scientific Name	Family	IUCN Red List Categorization	Schedule as per WP Act, 1972
9	Brown wood Owl (Ullu)	*Strix leptogrammica*	*Strigidae*	LC	IV
10	House sparrow	*Passer domesticus*	*Passeridae*	LC	IV
11	Common maina	*Acridotheres tristis*	*Sturnidae*	LC	IV
12	House Crow	*Crovus splendens*	*Crovidae*	LC	V
13	Jungle Crow	*Crovus macrorhynchos*	*Crovidae*	-	V
14	Red vented Bulbul	*Pycnonotus cafer*	*Pycnonotidae*	LC	IV
15	Red Whiskered Bulbul	*Pycnonotus jocosus*	*Pycnonotidae*	LC	IV
16	Jungle Babbler	*Turdoides striata*	*Leiothrichidae*	LC	IV
17	Common Babbler	*Argya caudata*	*Leiothrichidae*	LC	IV
18	Rose ringed parakeet	*Psittacula krameri*	*Psittaculidae*	LC	IV
19	Collar Dove	*Streptopelia decaocto*	*Columbidae*	LC	IV
20	Blue Rock Pigeon	*Columba livia*	*Columbidae*	LC	-
21	White Pigeon	*Columba livia domestica*	*Columbidae*	LC	IV
22	Baya weaver	*Ploceus philippinus*	*Ploceidae*	LC	IV
23	Hoopoe	*Eurasian hoopoe*	*Upupidae*	LC	IV
24	Jungle Fowl	*Gallus gallus*	*Phasianidae*	LC	IV
25	Jungle bush quail	*Perdicula asiatica*	*Phasianidae*	LC	IV
26	Red Wattled Lapwing	*Vanellus indicus*	*Charadriidae*	LC	IV
27	Bhujanga	*Dicrurus adsimilis*	*Dicruridae*	LC	IV
A. Mammals					
1	Rhesus macaque	*Macaca mulatta*	Cercopithecidae	LC	II
2	Jungle Cat	*Felis chaus*	Felidae	LC	II
3	Domestic Cat	*Felis catus*	Felidae	LC	-
4	Common Mongoose	*Herpestes edwardsii*	Herpestidae	LC	II
5	Small Indian Mongoose	*Herpestes auropunctatus*	Herpestidae	LC	II
6	Blue bull	*Boselaphus tragocamelus*	Bovidae	LC	III
7	Five- Striped palm Squirrel	*Funambulus pennantii*	Sciuridae	LC	IV
8	Common House Rat	*Rattus rattus*	Muridae	LC	V
9	Indian Mole Rat	*Bandicota bengalensis*	Muridae	LC	V
10	Indian flying Fox	*Pteropus giganteus*	Pteropodidae	LC	V

Sr. No.	Common Name	Scientific Name	Family	IUCN Red List Categorization	Schedule as per WP Act, 1972
11	Serotine bat	*Eptesicus serotinus*	Vespertilionidae	LC	V
12	Chhuchhundar	*Suncus murinus*	Soricidae	LC	-
B. Reptiles					
1	Common garden lizard / Girgit	*Calotes versicolor*	Agamidae	LC	-
2	Dodaha	*Enhydris enhydris*	Homalopsidae	LC	IV
3	Indian Krait	*Bungarus cacrulcus*	Elapidae	LC	IV
4	House Gecko	*Hemidactylus flaviviridis*	Gekkonidae	LC	-
C. Butterflies					
1	Common Grass Yellow	*Eurema hecabe*	*Pieridae*		IV
2	Plain Tiger	*Danaus chrysippus*	*Nymphalidae*	LC	IV
3	Dark grass blue	*Zizeeria karsandra*	*Lycaenidae*	LC	IV
4	Peacock pansy	*Junonia almana*	*Nymphalidae*	LC	IV
5	Blue pansy	*Junonia orithya*	*Nymphalidae*	LC	IV

FIGURE 38: PHOTOGRAPHS OF FAUNA FOUND IN AND AROUND PROJECT SITES



Corvus splendens



Bubulcus ibis





Streptopelia decaocto



Columba livia domestica



Columba livia



Turdoides striata



Acridotheres tristis




Funambulus pennantii

TABLE 34: AQUATIC PLANT AND ANIMALS FOUND IN POND AT KHAJUHI

S.No.	Vernacular Name	Scientific Name
A. Aquatic Plant		
1	Singhara	*Trapa natans*
2	Kumudani	*Nymphaea nouchali*
3	Kalmi	*Convolvulus arvensis*
4	Jalkumbhi	*Eichhornia crassipes*
5	Eelgrass or tape grass	*Vallisneria spiralis*
B. Annelida		
1	Earthworm	*Lumbricus terrestris*
2	Leech (jonk)	*Hirudo medicinalis*
C. Amphibia		
1	Frog	*Rana tigrina*
D. Mollusca		
1	Snail	*Pila globosa*
E. Reptilia		
1	Turtle	*Lissemys punctata*
F. Aves		
1	Duck	*Anas platyrhynchos domesticus*
2	Grebe (Pandubbi bird)	*Podiceps nigricollis*
3	Sandpiper (Titahari)	*Calidris alpina*
4	Egret (Bagula)	*Ardea alba modesta*
G. Pisces		
1	Rohu	*Labeo rohita*
2	Saury	*Cololabis adocetus*
3	Stinging catfish (Singhi)	*Heteropneustes fossillis*
4	Walking catfish (Mangur)	*Clarias batrachus*
5	Kawaii	*Anabas testudineus*
6	Tilapia	*Oreochromis niloticus*
7	Tengara	*Mystus gulio*
8	Sidhari	*Sardina pilchardus*
9	Pool barb	*Puntius sophore*

FIGURE 39:A VIEW OF POND AT KHAJUHI, SARNATH



FIGURE 40: AQUATIC PLANT AND ANIMAL IN KHAJUHI POND, SARNATH

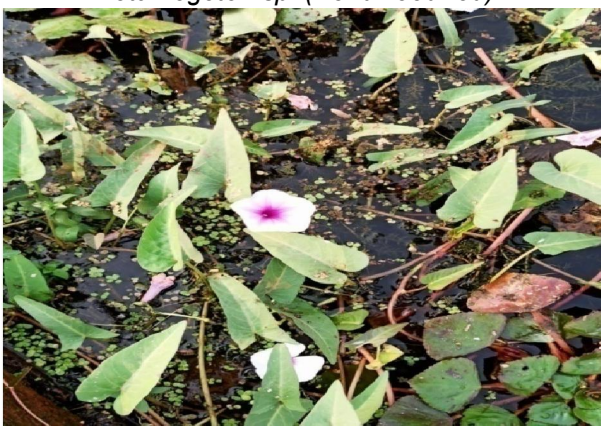


Lemna minor (pond weed)

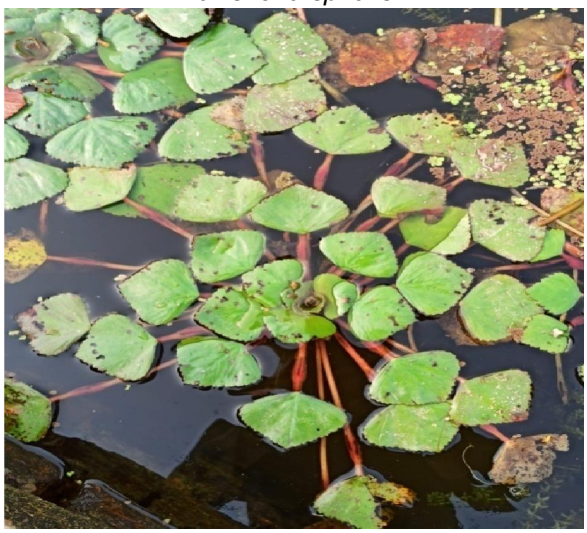


Potamogeton sp. (Pondweed red)





Vallisneria spiralis



Convolvulus arvensis



Trapa natans (water chestnut)



Pila globosa

TABLE 35: FAUNAL COMPOSITION OF SARAGNATH POND

S.No.	Vernacular Name	Scientific Name
A. Pisces		
1.	Rohu	*Labeo rohita*
2.	Saury	*Cololabis adocetus*
3.	Stinging catfish (Singhi)	*Heteropneustes fossillis*
4.	Walking catfish (Mangur)	*Clarias batrachus*
5.	Kawaii	*Anabas testudineus*
6.	Tilapia	*Oreochromis niloticus*
7.	Sidhari	*Sardina pilchardus*
8.	Pool barb	*Puntius sophore*
B. Reptilia		
9.	Turtle	*Lissemys punctata*
10.	Turtle	*Batagur kachuga*

FIGURE 41: A VIEW OF SARANAGNATH POND, SARNATH



TABLE 36: FAUNAL COMPOSITION OF DEER PARK

S.No.	Vernacular Name	Scientific Name
A. Pisces		
1.	Rohu	*Labeo rohita*
2.	Saury	*Cololabis adocetus*
3.	Stinging catfish(Singhi)	*Heteropneustes fossillis*
4.	Walking catfish (Mangur)	*Clarias batrachus*
5.	Kawaii	*Anabas testudineus*
6.	Tilapia	*Oreochromis niloticus*
7.	Tengara	*Mystus gulio*
8.	Sidhari	*Sardina pilchardus*
9.	Pool barb	*Puntius sophore*
10.	Gibelion catla (Bhakur)	*Catla catla*
B. Amphibia		
1	Indian bullfrog	*Hoplobatrachus tigerinus*
2	Frog	*Rana tigrina*
C. Mollusca		
1.	Snail	*Pila globosa*
D. Aves		
1	Duck	*Anas Platyrhychos domesticus*

FIGURE 42: A VIEW OF POND AT DEER PARK, SARNATH



4.10 WILDLIFE SANCTUARIES/ NATIONAL PARK

There are no eco-sensitive areas such as National Park, Wildlife Sanctuaries as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) within 10km radius of project sites.

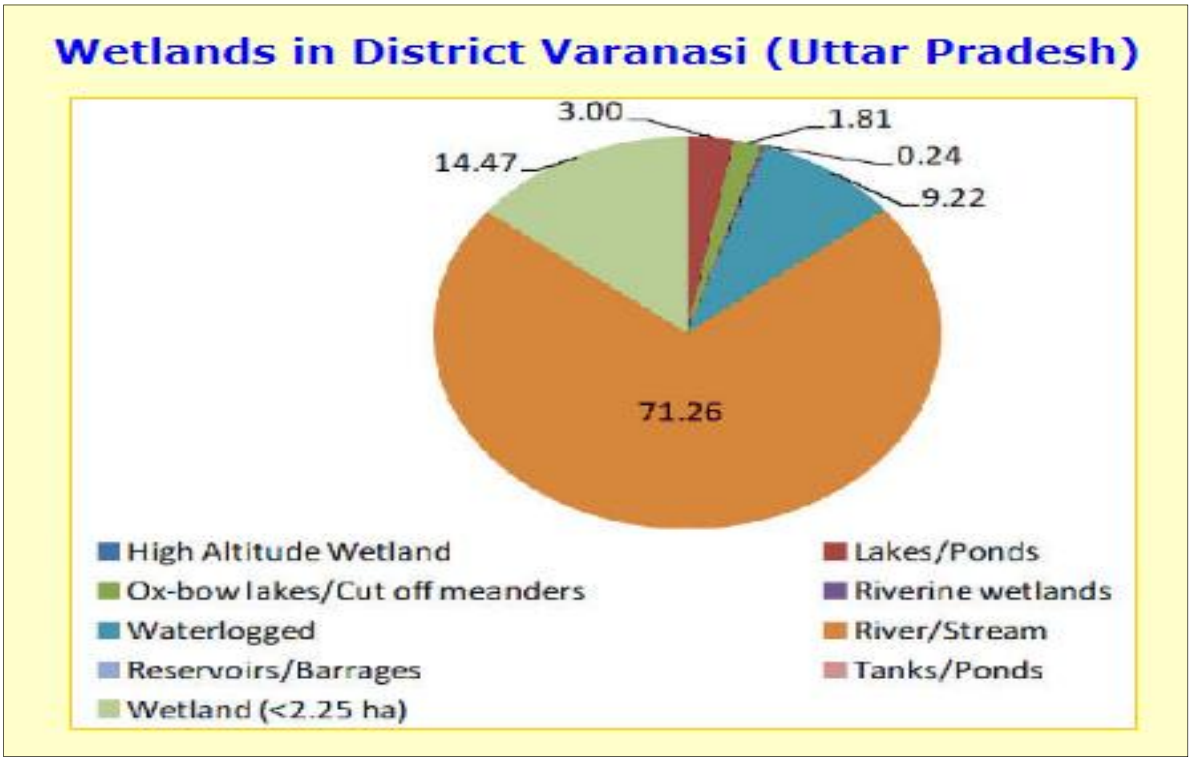
No endangered /threatened flora and fauna reported from project area so far.

4.11 WETLANDS

The total wetland area in the district is 36.95 Sq.km. as per LULC map of District Varanasi. Uttar Pradesh is the most populated state of India. Rivers and tributaries flowing through the state are Ganga, Yamuna, Ghaghra, Rapti, Gandak, Ramganga, Gomti, Hindan, Chambal, Saryu, Sai, Kosi, Betwa, Belan, Dhasan, Tons, Son etc. Huge numbers of lakes, ponds, canals are present in the state. Majority of these wetlands are related to the rivers directly or indirectly. 17 districts of Uttar Pradesh fall in the Ganga River Basin directly. Those are Bijnor, Saharanpur, Jyotiba Phule Nagar, Bulandshahar, Raebareli, Farrukhabad, Kannauj, Kanpur Dehat, Kanpur Nagar, Fatehpur, Allahabad, Azamgarh, Ballia, Varanasi, Sant Ravidas Nagar, Mirzapur and Ghazipur.

The river/ stream accounts approximately 71.26% of the wetlands in district Varanasi followed by 14.47% Wetland (< 2.25 ha) areas and waterlogged areas (9.22%). Distribution of wetlands as lakes/ ponds, ox-bow lakes/ cut off meanders, river and stream, reservoir/ barrages, tanks/ ponds and wetlands (< 2.25 ha) is given below:

FIGURE 43: WETLAND STATUS IN DISTRICT VARANASI, U.P.



Source: http://117.252.14.242/Gangakosh/Water%20Resources/wetlands.htm)

4.12 CULTURAL PROPERTY/ PROTECTED MONUMENTS

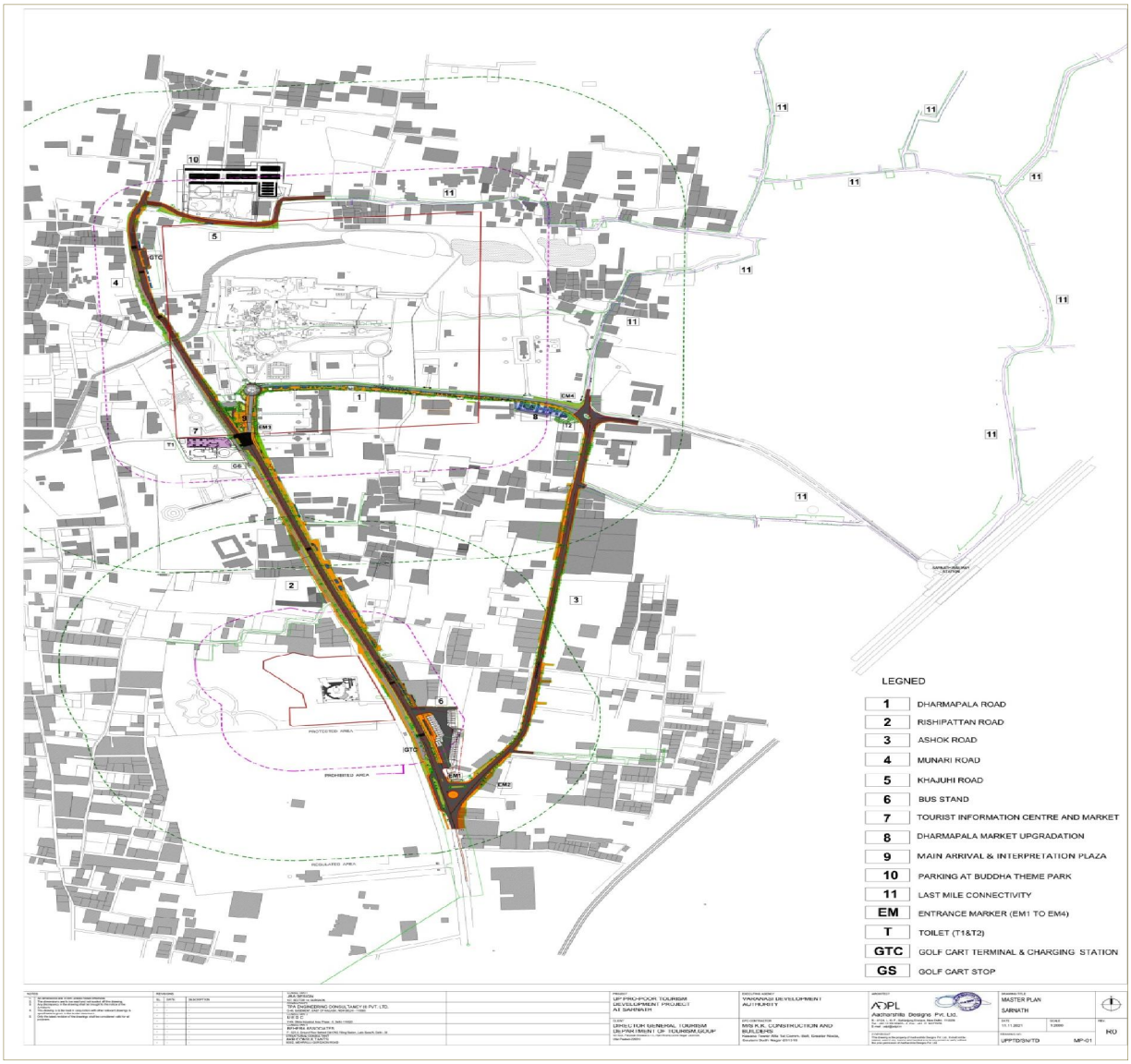
There are two ASI protected structure/monuments in/ near the subproject components/ sites i.e. (i) Archaeological excavated remains and (ii) Chaukhandi Stupa on Rishipattan Road in Sarnath.

The Archaeological Survey of India (ASI) regulations related to Sarnath's monuments restrict the construction within the buffer of the heritage zone. As a result, specific permission is required from ASI as well NMA before any infrastructure improvements/ developmental activities in/near ASI protected area. Such permission is requested through the Divisional Commissioner of the Varanasi Development Authority, who directs the request to the ASI/ NMA.

Adequate mitigation measures of environmental will be taken during proposed developmental activities in/ near the subproject components/ sites. Before start of

work, necessary permission will be required from ASI as well NMA in consultation with the Commissioner, Varanasi Division, Varanasi.

FIGURE 44: A VIEW OF LAYOUT MAP OF SUBPROJECT COMPONENTS AND ASI PROTECTED MONUMENT SHOWING PROTECTED, PROHIBITED AND REGULATED AREA IN SARNATH



4.13 BASIC AMENITIES

Basic Amenities are pillar indicators of living standards of any society /village/town/state. Basic amenities include clean & safe drinking water, sanitation, housing, road, electrification, fuel, connectivity, healthcare centre, School, Playground and Recreational Facilities and many more.

TABLE 37: BASIC AMENITIES IN AND AROUND SARNATH, DISTRICT-VARANASI, U.P.

School/College/SSD	13 NOS in Project Area	  
Hospitals	9 NOS in Project Area	
Tap water	Available in Project Area Khajuhi, Ganj, Baraipur, Singhpur etc	
well	Available in Project Area Khajuhi, Baraipur, Ghurhupur, etc	
Hand Pumps	Available in Project Area near Mazar, Dharampala Road, near Japanese temple Sarangnath Road, Khajuhi	
Tube well/Bore Well	Available in Project Area	
Ponds	Available in Project Area Khajuhi Pond, Sarangnath Pond & Deer park pond.	
Post-office	Available in Project Area of Ashok Road	

Mobile Phone coverage	Available in Project Area Station Road, Ashok Road, Sarnath chowk etc.	
Internet Cafe/CSS	Available in Project Area Rishipattan Road	
Private courier service	Available in near Project Area (Mavaiya)	
Bus Service	Nearby Available at Ashapur Chauraha (1.2 km in west Direction from Project site)	
Railway Station	Available(Sarnath Station) in Project Area	
Auto/Taxi/Vans/Rikshaw	Available in Project Area near Museum Tiraha, Sarnath Chowk etc.	
Self Help Group	Available in near Project Area (Mavaiya)	
Anganwadi Centre	Available in Project Area Khajuhi ,Baraipur , Ganj, etc	
Asha	Available in Project Area Khajuhi, Baraipur, Ghurhupur, Ganj etc	
Public Distribution Shop	Available in Project Area Ganj, Baraipur, Khajuhi, Singhpur etc	
Mandis/Regular Haat	Nearby Available at Panchkoshi chauraha(App. 2.2Km in West Direction From Project Site)	
Daily Uses Shops	Availabe in Project Area Munnari Road,Station Road etc	
Community Centre With/Without TV	Available in Project Area	
Public Library	Available in Project Area Khajuhi, Baraipur, Ashok Road etc	
News Paper supply	Available in Project Area Ganj ,Baraipur, Singhpur ,Khajuhi etc	
Power Supply for Domestic Use	Available in Project Area Baraipur	

Power Supply for Commercial use	Available in Project Area Baraipur	
Restaurants &eating facility for Tourist	Available in Project Area Dharampala Road ,Sarnath Chauraha	
Hotel Facility For Tourist	Available in Project Area,Baraipur, Sarnath Chauraha etc	
Tourist information centre	Available in Project Area Munnari Road near Museum Tiraha	
Tourist Guide	Available in Project Area Museum Tiraha , Sarnath Chauraha etc	
Tourist Police Service	Available in Project Area Munnari Road	
Public toilet with bathing Facility	Available in Project Area Dharampala Road, Sarnath Chauraha	
Public Toilet Without bathing Facility	Available in Project Area Munnari Road	
National Highway	Nearby Available(Varanasi Ajamgarh Highway is app. 700m in north direction from Project Site, NH 29 is 1.2 km in south direction from Project site)	

State Highway	Nearby Available (SH28 is 2.8 km in west direction from Project Site)	
Kachcha Roads	Available in Project Area Khajuhi, Baraipur ,etc	
Pakka Road	Available in Project Area Khajuhi , Ganj ,Baraipur , Ghurhupur,etc but ill managed	
Street light	Available in entire Project Area Except Khajuhi And Baraipur Area	

FIGURE 45: SOME PICS OF BASIC FACILITIES AVAILABLE IN AND AROUND PROJECT AREA



Playground





Railway Station



WTP



Mahabodhi Intercollege



Tourist Bunglow





PHC



Café Coffee Day



Restaurant



Shops / Market



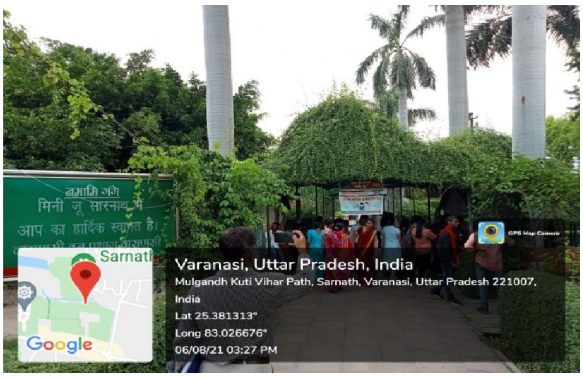
Shops





ATM Facilities





Deer Park/ Mini Zoo

CHAPTER 5. ANTICIPATED ENVIRONMENTAL AND SOCIAL IMPACTS

5.1 INTRODUCTION

This Chapter identifies and discusses both positive and negative impacts associated with the proposed project and their mitigation measures on the basis of screening and field visits and parameters provided in ESMF. The anticipated impacts and corresponding mitigation measures are discussed in Phases namely: design, construction, operation Phases. Based on the magnitude and duration of the project activities, the nature, duration and extent of impact are assessed. Minor project impacts have also been identified and basis for their insignificance has been provided. ESMP also addresses the minor impacts and provides environmental and social mitigation / environmental enhancement measures.

5.2 TYPES AND SCALE OF IMPACTS

The Subproject to be implemented in the area will cause certain impacts during the construction stage, however, the impact level is not high and can be minimized. Upon the completion of construction, better livelihood opportunities to the locals, the support to the street vendors through the provision of (i) dedicated vending spaces within the core area, (ii) gender sensitive basic services, (iii) enhanced carts and (iv) identity cards are expected not only to improve their overall working conditions and increase their livelihood opportunities, but also to uplift their status from unauthorized vendors to local entrepreneurs. The proposed traffic management measures are expected to contribute to improve traffic and pedestrian flows, safety and quality in the target area. local people by giving opportunities to get the livelihood in informal sectors like street vendors, rickshaw pullers, tea/coffee stalls, magazine corners, shops with packed food items etc. The establishment of the Visitor Centre, adequate parking, tourist services and interpretation are expected to improve visitors understanding of Sarnath's history, making their visit more transformational.

Potential negative impacts are identified and screened at each subproject component from the preparation phase to the operational phase and classified according to the nature of the construction works. Most negative impacts are temporary, local and reversible due to small to medium-sized construction scale of the works. Impacts can be minimized by applying appropriate technologies and specific mitigation measures with the close monitoring of the Consultant, VDA and local communities.

The general impacts have been assessed from base line information and primary data collected during surveys and investigation. The possible impacts at various stages of the project such as prior initiation, during implementation and post project period will

be assessed and mitigation measures will be suggested. The following elements have been analyzed:

- **Natural Environment**
  - Topography (Soil, forests, Land-use, Landscape)
  - Geological
  - Hydrological
  - Water Quality- Surface/Ground water
  - Air Quality (Noise & Meteorology)
  - Biodiversity- Flora/fauna]
- **Social Environment**
  - Resettlement & Land acquisition issues (if any)
  - Livelihood and local economy
  - Public health

Identification of Environmental and Social risks/impacts was assessed during ESIA process is summarized as follows in below table 38 and summary of anticipated impact and matrix is given in Table 38 (a) and Table 39.

TABLE38: ENVIRONMENTAL AND SOCIAL RISKS/IMPACTS DURING CONSTRUCTION AND OPERATIONAL PHASES

Environmental/ Social Component	Risk/Impacts	Type of Risk
During Construction		
Land and Soil Environment	▪ Change in existing condition of land due to excavation/ earthworks ▪ Loss/ loosening of topsoil and vegetative cover at subproject site due to excavation activities ▪ Disposal of construction and demolition waste ▪ Contamination of land due to spillage of oils/ lubricants from vehicles and equipments	Low Risk
Air Environment	▪ Dust emission due to construction activities and playing of transportation vehicles/ machineries and equipments ▪ Deterioration of ambient air quality during vehicular traffic such as transportation of material, loading/ unloading activities, construction activities / equipment etc.	Low Risk
Noise Environment	▪ Increase in noise level due to plying of vehicles engage during construction activities such as transportation of material, machineries and equipment etc. ▪ Increase in noise level during excavation/earthwork etc.	Low Risk
Water Environment (Ground water/ Surface Water)	▪ Increase in water demand during construction activities and for labor camp ▪ Siltation/sedimentation of surface water body i.e. pond in Khajuhi ▪ Oil & grease pollution	Low Risk

Environmental/ Social Component	Risk/Impacts	Type of Risk
	▪ Disposal of construction and demolition waste into water bodies ▪ Water drawn from nearby surface water bodies for construction purposes ▪ Waste water/ Sewage pollution of nearby surface water body by construction/labour camps etc.	
Biological Environment (Flora & Fauna)	▪ Loss of shrubs and herbs at the time of clearing, grubbing of sites and dumping of debris and construction waste etc. ▪ Disturbance to fauna due to noise and vibration generated during construction activities, temporarily impact the fauna of deer park etc. as it is close to the subproject component site/s. ▪ Impact on trees along the roadsides during utilities shifting/ underground cabling works due to unavoidable circumstances.	Low Risk
Physical Cultural Resources (Protected Monuments)	▪ Subproject site are located within/near protected monuments ▪ Excavation/ earthwork activities may damage to protected monuments. ▪ Generation of dust and noise during construction may damage to protected monuments and aesthetics etc.	Medium Risk
Construction/Labour camp	▪ Health risk due to lack of poor sanitation condition near labour/construction camps such as disposal of waste water/sewage on open land which may cause nuisance and mosquito/ vector borne diseases etc. ▪ Influx of construction workforce and supplier who are likely to construct temporary sheds in the vicinity ▪ Chances of spread of Sexually transmitted diseases like HIV/AIDS etc.	Low Risk
Occupational Health & Safety	▪ Unhygienic conditions and health hazards due to discharge of waste water from labour camps ▪ Generation of dust, gaseous and noise within the congested areas during construction works may affect health of people/community residing nearby ▪ Safety risk to construction workers e.g. avoid/neglect safety protocols such as use of PPEs etc. ▪ Poor sanitation and accumulated garbage /waste generated from labour camp may increase the chance of communicable diseases.	Low Risk
Operational Phase		
Ambient air quality	▪ Air pollution may increases due to influx of tourist and traffic after implementation of subproject activities	Low Risk
Noise Level	▪ Noise level may increases due to influx of tourist/ traffic after implementation of subproject activities	Low Risk

Environmental/ Social Component	Risk/Impacts	Type of Risk
Water Quality	▪ Increase in water demand may due to influx of tourist after implementation of the subproject ▪ Increase in Sewage and Solid Waste ▪ Disposal of sewage and solid waste	Low Risk
Physical Cultural Resources (Protected Monuments)	▪ Influx of tourist will speed up the collection of government revenue and ultimately boost the economy of the area/region in the state	-
Socio-economic condition of Poor	▪ By way of influx of tourist in the area, socio-economic / livelihood condition may improve after implementation of the subproject in the area/region.	-

TABLE 38(A): THE TYPE OF IMPACT ANTICIPATED DURING CONSTRUCTION PHASE

Components	**Potential Environmental Impacts**	**Potential Social Impacts**
Integrated works of Pedestrian path/ Promenade (Dharampala road)	▪ Elevated Noise and Dust Pollution ▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Safety hazards during construction ▪ Health risk due to unhygienic conditions at worker's camp	▪ Disruption to local community/ pedestrian movement: ▪ Disruption to Traffic and visitor's movement: ▪ Temporary livelihood impact may be on 185 vendors
Last Mile Connectivity	▪ Elevated Noise and Dust Pollution ▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Safety hazards during construction ▪ Water Quality of surface water body- Disposal of domestic/ construction waste & Siltation in water body	▪ Disruption to local community/ pedestrian movement: ▪ Disruption to Traffic and visitor's movement: ▪ Temporary livelihood impact may be on 46 vendors
Vehicular Road Development (Rishipattan and Ashok Marg)	▪ Elevated Noise and Dust Pollution ▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Health & Safety hazards during construction	▪ Disruption to Traffic and visitor's movement: ▪ Disruption to local community/ pedestrian movement: ▪ Temporary livelihood impact may be on 110 vendors
.Tourist Information Centre, Sarnath	▪ Elevated Noise and Dust Pollution	▪ Disruption to Traffic and visitor's movement:

Components	**Potential Environmental Impacts**	**Potential Social Impacts**
	▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Health & Safety hazards during construction	▪ Disruption to local community/ pedestrian movement

TABLE 39: PROJECT ACTIVITIES AND IMPACT IDENTIFICATION MATRIX OF ENVIRONMENTAL & SOCIAL ATTRIBUTES

Subproject Components	Potential Impact on Environment and Social Components by Project activities											
	Land (Soil)	Ambient Air Quality	Noise	Ground Water	Surface Water	Biodiversity		Cultural Resources – any damage to sensitive property	Social attributes			
						Flora	Fauna		Livelihood	Involuntary Resettlement/ Displacement	Health & Safety	Any damage to public property
Promenade Development (Dharampala Road)	√	√	√	X	X	X	X	√	√	√	√	X
Last Mile Connectivity	√	√	√	X	√	X	X	√	√	√	√	X
Crossings and Gates	√	√	√	X	X	X	X	√	√	X	X	X
Parking and Traffic calming infrastructure	√	√	√	X	X	X	X	√	√	X	X	X
Tourist Information/ Interpretation Centre	√	√	√	X	X	X	X	√	√	X	X	X
Street Markets and Vendors	X	X	X	X	X	X	X	X	√	√	√	X

5.3 ANTICIPATED ENVIRONMENTAL IMPACTS

In view of environment, qualitative and quantitative impacts have been taken in to consideration based on following:

- Types: Positive (+) or Negative (-)
- Magnitude: Long term and Short term
- Duration: Permanent impacts, Temporary impacts
- Reversibility: Reversible, Irreversible

The environmental impacts caused due to the proposed project developmental activities can be categorized as primary (direct) and secondary (indirect) impacts. Primary impacts are those which are induced directly by the project whereas the secondary impacts are those which are indirectly induced and typically include the associated investment and changing pattern of social and economic activities due to the proposed project activities. Environmental impacts due to proposed interventions have been taken into account during following project activities:

- Impact identification during construction
- Impact identification during operation

5.3.1 IMPACT ON PHYSICAL CULTURAL PROPERTY (PROTECTED MONUMENTS)/ NATURAL HABITAT:

Project site is located in/ near ASI protected structures i.e. Archaeological Excavated Remains and Chaukhandi Stupa. Majority of works proposed at Dharampala Road comes under protected area of Archaeological excavated remains and some part fall within 100m and 200m prohibited and regulated area as per Ancient Monument and Archaeological Sites and Remain (AMASR) Act, 1958 and subsequently amended on 2010. Proposed parking in front of Chaukhandi Stupa lies within 100m and 200m prohibited and regulated area as per AMASR Act. As per guidelines of AMASR Act, 100m radius of the protected monument is “prohibited” area where no construction or reconstruction is allowed, but rehabilitation allowed. 200m radius from the prohibited area is declared as “regulated” area where structures can be constructed in due consultation and permission from competent authority i.e. ASI as well NMA. However, no major construction and demolition work is involved in this project which may cause any damage to ASI protected monuments located within or in vicinity of subproject sites. it is expected that proposed activities will have very limited impacts on environment. No adverse impact is anticipated on ASI protected monuments. Appropriate permission/ no objection certificate will be taken prior to any construction work.

Mitigation Measures: In view to mitigate any adverse impact on cultural resources/property, the detailed layout and design of the proposed activities /interventions shall be finalized in consultation with the ASI authorities. All the work will be carried out as per AMASR act /guidelines of competent authority of ASI/NMA will be strictly adhered and follows during construction and operational phases of the project.

Natural habitat i.e. Deer Park/ mini zoo is located within Sarnath in between Dharampala Road and Khajuhi. However, work is not proposed in Deer Park/mini zoo as it is quite remote distance. Adequate mitigation measures of environment such as ambient air, noise abatement will be strictly adhered during construction and operational phases of the project to control any adverse impact on Deer park/mini zoo located in close vicinity of Dharampala Road. It is expected that proposed activities will have very limited impacts on environment and no adverse impact is envisaged on natural habitat in the area.

Mitigation Measures: There will be limited impacts during construction and operation phases of the project as proposed work is out of boundary of natural habitat. In view of control of pollution of ambient air and noise, adequate mitigation measures such as water sprinkling arrangement, noise abatement will be strictly adhered during proposed activities.

5.3.2 IMPACT IDENTIFICATION DURING CONSTRUCTION

During construction, impact will be localized and short term with reversible changes in use of surrounding land as compared to present condition by proposed developmental activities. Impact will be limited primarily related to the civil works and low impact is expected during deployment of equipment and machineries operation. During construction, works includes generally site clearance, excavation, filling of earth materials, dumping of debris, loading, unloading and transportation of materials from production to construction site. Other activities include such as setting up of batching plants, setting up of labour/workforce camp, material storage, silting & sedimentation of surface water body, tree cutting & ground water abstraction, if any etc. These activities have impacts of varying magnitude on environment and social components. Due care is required to minimize the any adverse impacts to the extent possible and to facilitate minimum effect on the environmental and social components, which is described as under:

5.3.2.1 IMPACT ON LAND AND SOIL ENVIRONMENT

- Clearing and excavation of the land

- Generation, storage and disposal of top soil and debris due to construction/ /rehabilitation activities
- Contamination of soil
- Soil compaction/erosion
- Loss of aesthetics features
- Contamination of project land due to leakage or spillage of fuel and lubricants, waste water discharge from labour camps.

5.3.2.2 IMPACT ON AIR ENVIRONMENT

(a) Dust Emission

During the construction phase, dust will be generated during construction activities, transportation of vehicles, machineries and equipments, loading and unloading activities of waste/ raw material transportation etc. Dust pollution will be certainly increases during construction phase such as dust will be deposited on leaves of plants which may affects the growth and aesthetics of the area. Primary air pollutants such as particular matter i.e. PM10 and PM2.5 will slightly increases in the ambient air environment during construction phase. Quality of ambient air will slightly affect by proposed developmental activity in the area. However, impact will be temporary and restricted within the closed vicinity of the proposed activities of construction.

(b) Generation of Vehicular Exhaust/Gases

During construction phase, generation of vehicular exhaust/ gases is likely due to movement of machineries and equipments and transportation of waste/ raw material etc. Toxic gases are released through the heating process during bitumen production, although impact will be much localized, it can spread downwind direction depending upon the local meteorological conditions/ wind speed. There will be sudden increase in level of air pollution from both the sources i.e. mobile and stationary during construction phase but this will be short term and marginal impact on the ambient air quality which is not expected to be significant as the commissioning phase will be in staggered and intermittent in activity.

(c) Impact on Noise

During the construction phase, the major source of noise pollution are transport vehicles and moving of construction machineries and equipments. Noise will be generated during material transport, loading and unloading activities, but noise generating activities will be localized. Mixing, casting and material movement are primary noise generating activities in the area and will be uniformly distributed over the construction phase. During construction, anticipated noise will be generated in between 80-95 dB (A). The noise likely to be generated during excavation, loading and transportation of material will be in the range of 90-105db (A) and this will occur

only when all the equipments operates simultaneously. The construction equipments will generate high noise which can affect personnel operating the machines and public. Use of proper Personal Protective Equipments (PPEs) such as earmuffs/earplug will mitigate any adverse impact of health of the workers. Noise abatement measures such as acoustic enclosures and periodic maintenance of vehicles/machineries will ensure to control noise within limits of standards.

(d) Impact on Water Environment (Ground water/ Surface Water)

Short term water requirement may be increases as it will be required primarily at the construction activities and for domestic purposes in the labour camps. The contamination of ground water/surface water due to leakages or spillage of fuels and lubricants from machineries and waste water generated and discharges from labour camps may be possible impact on water environment. However, considering the nature of work and workers to be involved, chances of contamination of water is remotely possible. During work adequate precaution will be taken during construction work near any surface water body in the area, mitigation measures such as oil & grease/ silt traps arrangement will be always adhered at site to avoid any siltation/ sedimentation or contamination in it. Labour camp shall be located quite remote from any of the water body.

(e) Impact on Flora and Fauna

In view of eco-sensitive areas, there are no ecologically sensitive areas like National park, Wildlife Sanctuaries, Biosphere reserves, reserved forest within 10km radius of proposed site. Deer Park/mini zoo is located in close proximity of Dharampala Road in Sarnath. However, following impacts may affect the flora and fauna found near the project site:

- Loss of shrubs and herbs during clearing the sites and dumping of debris and construction waste etc.
- Disturbance to fauna due to noise and vibration during construction and transport equipments and vehicles etc.

(f) Impact of Traffic Congestion

During raw material transportation and proposed traffic calming measures may cause slight traffic congestion that may cause inconvenience to the road users. Considering the nature of development/ interventions proposed under the subproject, traffic jams are unlikely to cause during construction activities in the area.

(g) Impact on Public Health and Safety

- Dust, gaseous pollutant and noise generation within the congested area during the construction works may affect the health of people residing nearby;

- Unhygienic condition and health hazard due to discharge of waste water from labour camps; poor sanitation and accumulated garbage/waste water generated from labour camp may cause increase in communicable/vector borne diseases.
- Safety risk to construction workers.

(h) Impact on Public and Sensitive Monuments

Project is located within/near ASI protected area therefore, special attention is required during construction activities as heavy construction, noise and vibration etc may affect the ASI monuments. However, considering the proposed interventions impacts on public and sensitive monuments will be remote possibility.

5.3.3 IMPACT IDENTIFICATION DURING OPERATION

The proposed activities/interventions will create an enhanced infrastructure facilities and tourism destinations in Sarnath. Proposed development activities will create more employment to poor and better infrastructure in the area and attracts more tourists in Sarnath. The existing infrastructure facilities such as promenade development, sewerage, drainage, vending zone, parking, tourist information centre, internal roads connect to monasteries, utilities and basic facilities is not in proper condition.

a. Impact on Air Quality and Noise levels

- Due to the increased traffic and poor road conditions there will be:
- Slight increase in Particulate matter PM10, PM2.5 and gaseous pollutants level in ambient air during congestion (if any) and if entry allowed of vehicles in village;

b. Impact on Water Environment

The proposed project may increase the water demand of the area because some public facilities viz toilets, drinking water taps, sitting arrangement will be developed to facilitate the commuters as well as staff. In view of absence of proper sewerage system, presently most of the sewage is disposed off in septic tank. Nearby STP is at Goithaha and cater to fulfill the required additional treatment capacity of proposed sewerage system in the area.

c. Impact of Refuse Disposal and Sanitation

Generation of Municipal Solid Waste will create odor and nuisance in the area if not managed properly. Aesthetic look will be impacted in result of heaps of solids waste in the area and attract vector borne diseases/nuisance in the area. After completion of

construction work, contractor will ensure all the construction/ demolition waste disposed off properly at earmarked site in consultation with local bodies after completion of work and site should be free from any debris/waste.

d. Impact on Public Safety

Unhygienic conditions due to improper disposal of waste.

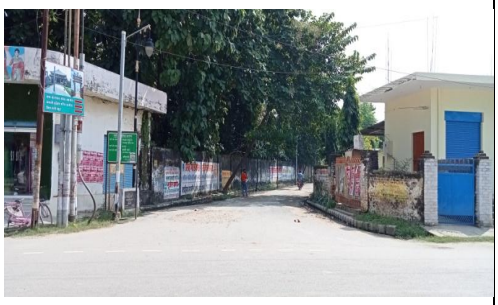
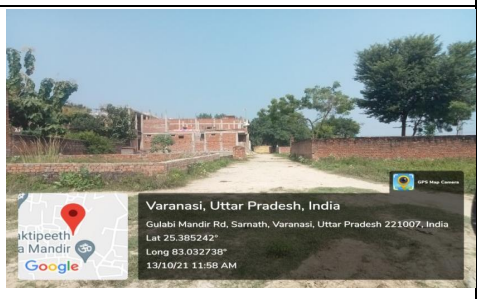
5.4 ANTICIPATED SOCIAL IMPACTS:

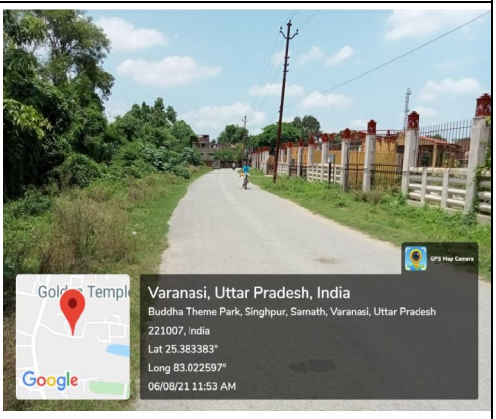
The proposed sub-project, after social screening, census survey and social impact assessment concludes that the project falls in 'low impact' category and has overall positive benefits on the life and environment of the people. There is no land acquisition as such as the land belongs to Nagar Nigam/PWD/ Mahabodhi Society. Livelihood loss has been assessed under this project and RAP will be prepared.

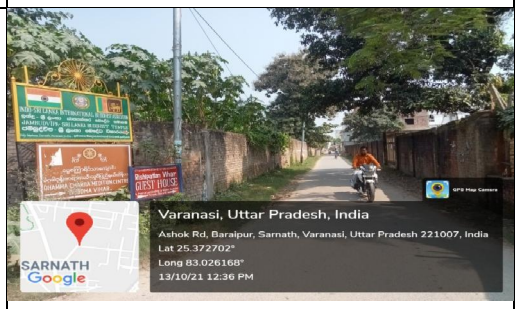
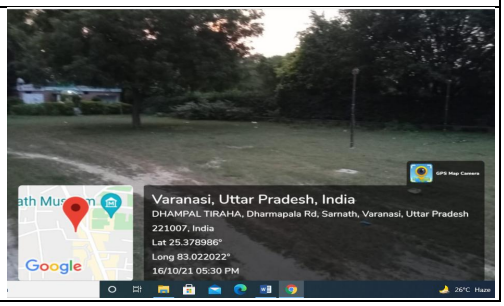
5.4.1 LAND REQUIREMENT

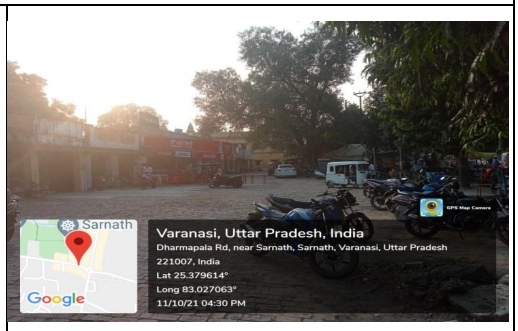
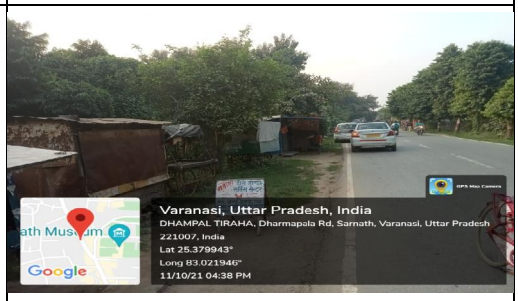
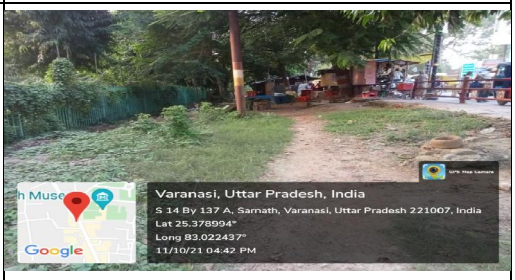
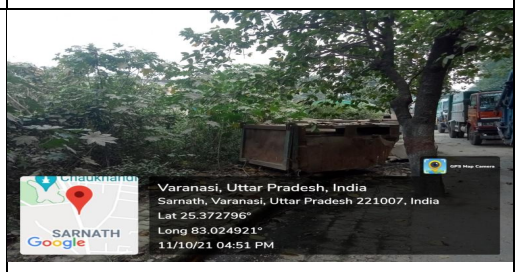
The scope of land acquisition and involuntary resettlement is identified based on consultations with relevant officials including VDA/Nagar Nigam officials, Revenue Department, community, other sources and first-hand observations during the field visits and transect walk along proposed sites (i) Dharampala Road (ii) Last mile connectivity (iii) Rishipattan Road/Ashoka Road(iv) Proposed vending zones sites(v) Proposed Parking sites and Tourist Information/Interpretation Centre sites. There will be no private land acquisition undertaken for the proposed subproject; the entire renovation and rehabilitation works under the project will be done within government land and/or within the ROW of government roads. As there are no agricultural or forest or community land requirement there are no adverse impacts either on general oron any vulnerable group and Indigenous people. There would be no loss of community assets during the construction as noticed during field survey and interaction with the local people. Although it was noticed that few common property resources (Temple, Mazar, Water hut and community toilets are within the proposed areas in Dharampala road and during implementation of subproject, efforts will be made to minimize impact to the extent. Table 40 indicate that the land details of proposed project construction of components.

TABLE 40: LAND DETAILS OF COMPONENTS AND LAND OWNERSHIP

Proposed components	Land ownership	Photographs
Integrated works of pedestrian path/ promenade of Dharampala road in Sarnath	Dharampala Road is under the possession of public works department(PWD).	
Vehicular Road Development (Rishipattan road and Ashoka Road)	Rishipattan road and Ashoka Road are under the possession of public works department(PWD).	
Last Miles Roads		
Ashok Marg to Sarangnath /Japanese Temple	This stretch is under the possession of public works department(PWD).	
Durga Mandir to Majjhimasukha Monastery	This stretch is under the possession of public works department(PWD).	
Durga mandir to Vietnamese (gulabi) monastery & Korean Temple	This stretch is under the possession of Nagar Nigam.	

Proposed components	Land ownership	Photographs
Hanuman Mandir to Dharampala road	This stretch is under the possession of Nagar Nigam.	
Munnari Road to Khajuhi (Buddha Smriti Park & Nyangmapa monastery	This stretch is under the possession of Nagar Nigam.	
Station to Durga Mandir	This stretch is under the possession of public works department(PWD).	
Dharampala Market to Station	This stretch is under the possession of public works department(PWD).	

Proposed components	Land ownership	Photographs
Ashok road to Jumbodeep Srilankan Monastery	This stretch is under the possession of Nagar Nigam.	
Near Braj Vidya Mandir to Khajuhi Village	This stretch is under the possession of Nagar Nigam.	
Proposed Parking Sites		
In front-of Chaukhandi Stupa	Department of Tourism is the owner of this land which is currently being used by Nagar Nigam. Presently this site is being used for solid waste dumping yard and also being used for parking of vehicle that are collecting solid waste. As per SIA, no rag pickers are at sites.	
Buddha Theme Parking	Land belongs to Department of Tourism. Presently this site has been given to private operator for operating commercial activities.	
Modern Reception Centre		
Modern Reception Centre	Land belongs to Department of Tourism. Presently this sites have been used by Police Department as a Paryatak Thana, Cyber Thana by Uttar Pradesh Police. Total built-up area of the existing building is about 750 sq meter and total land area is about 8300 sq mtr.	

Proposed components	Land ownership	Photographs
Proposed sites for vending zones		
Dharampala Market Vending zone	Land belongs to Mahabodhi Society	
Munnari vending zone	Land belongs to public works department.	
Rishipattan vending zone	Land belongs to public works department.	
Suheldev Vending Zone	Land belongs to public works department.	

Source: Transect walks, technical documents and Public consultation

5.4.2 IMPACT ON LIVELIHOOD TO ROAD SIDE VENDORS

On the basis of screening and site visits along the road stretches, it is observed that temporary disruptions may result in loss of income during construction period for a few days to road side vendors. The estimation of impacts assessed in the areas of congested lane as shown in figure 46 above, few densely populated areas where temporary disruption and loss of livelihood likely to be affected during execution, the

area of Dharampala Road, Rishipattan Road, Station Road, are shown in photographs below (Figure 46) are highly dense lanes and likely to be affected. Estimation of loss has been calculated on the basis of field visit along the roads, the exact estimation will be done in RAP. List of potential affected persons (validated by DUDA) is attached in **Annexure 3** and summary of affected person's area wise is presented in Table 41.

TABLE 41: NOS OF POTENTIAL AFFECTED PERSONS STRETCH WISE

Name of Stretch	No of Potential affected persons
Dharampala Road	185
Rishipattan/Ashoka Road	110
Station Road	46

List Provided by DUDA/Nagar Nigam

FIGURE 46: COMMERCIAL PLACES AND CONGESTED LANES- PHOTOGRAPHS



Vendors at Dharampala Road



Rishipattan Road/Munnari Road




Ashoka Road




Station Road

As per discussion with design engineer and project contractor, works will be executed phase wise/section wise and livelihood impacts of vendors will be minimized through the shifting of street vendors across the lane (on the other side of road). Under this subproject, vending zones will be set up at specific zones in compliances of new Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act, 2014[3] to accommodate all the identified vendors. The zones will not only have platforms and sheds for the vendors, but also toilets and parking lots. Benches will also be placed for shoppers. Extensive consultation was held with vendors and they have agreed to shift in the vending zones. (Consent of Vendors are attached in **Annexure 4**.).

Detailed survey was undertaken with PAP (286/341) identified in all the stretches (Dharampala Road, Rishipattan /Ashoka Road/Station Road). During survey, it was noticed that few vendors name was registered in the DUDA list, but they are not present in the sites from last couple of months. (Ref Table 42)

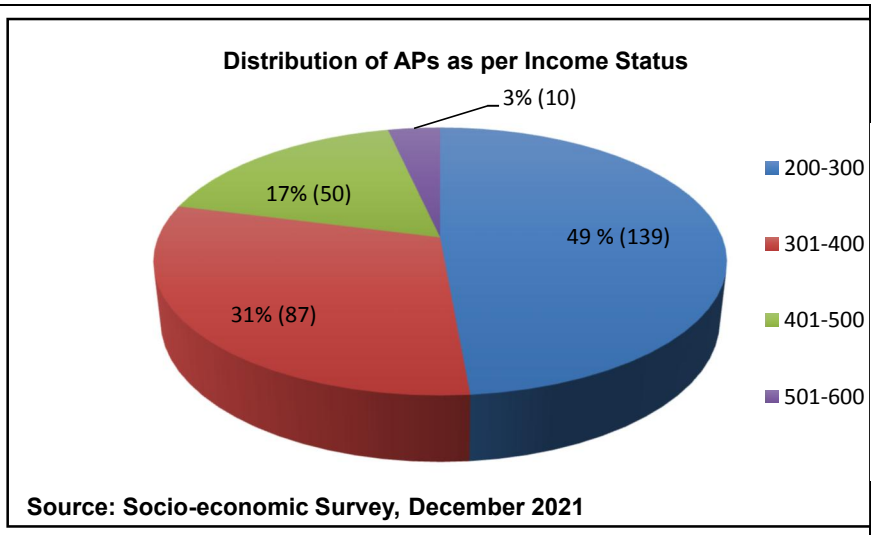
[3] With the new Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act, 2014 in place, which is being seen as a landmark legislation there is a ray of hope for improvement in the status of street vendors. The Act vouches for compulsory registration, issuing license to vendors and formation of town vending committees and most importantly planned vending zones.

TABLE 42: NOS OF POTENTIAL AFFECTED PERSONS STRETCH WISE

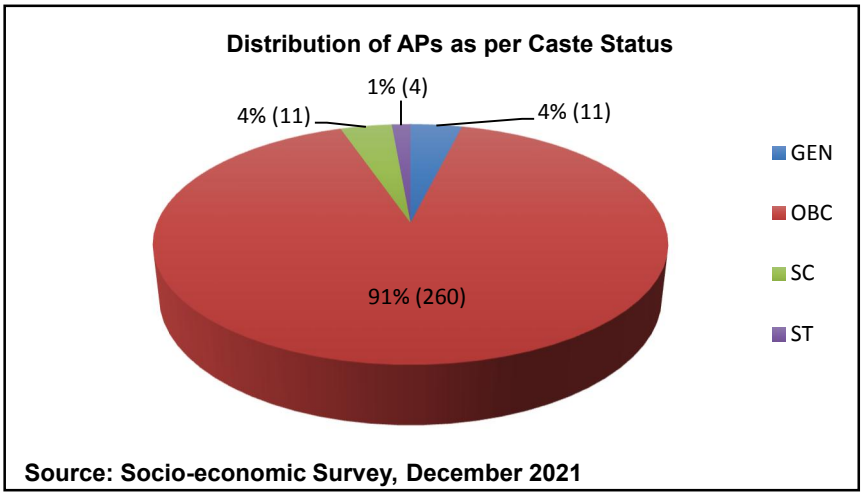
Name of Stretch	No of Potential affected persons	Nos of PAP presently at sites
Dharampala Road	185	181
Rishipattan/Ashoka Road	110	83
Station Road	46	22
	341	286

The survey provides information socio-economic conditions of affected households. A wide range of data including, social category, type of losses, type of occupation, sources of income, choice of resettlement etc. have been collected.

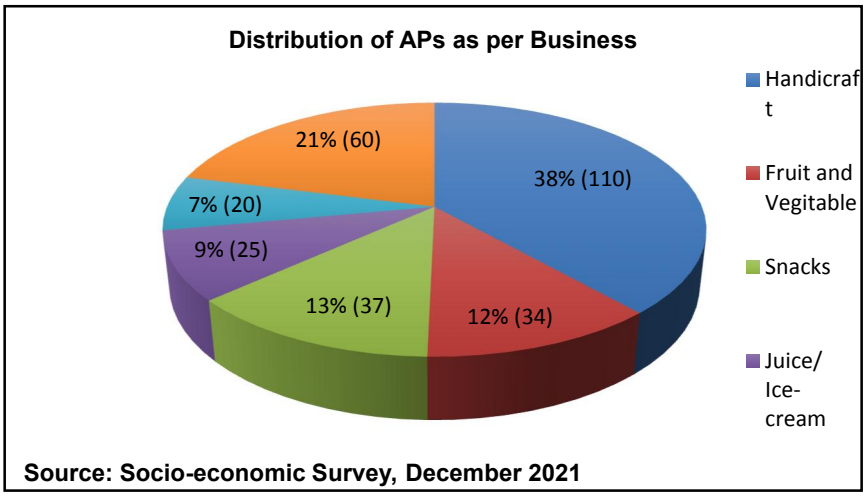
Income	
200-300	139
301-400	87
401-500	50
501-600	10
	286



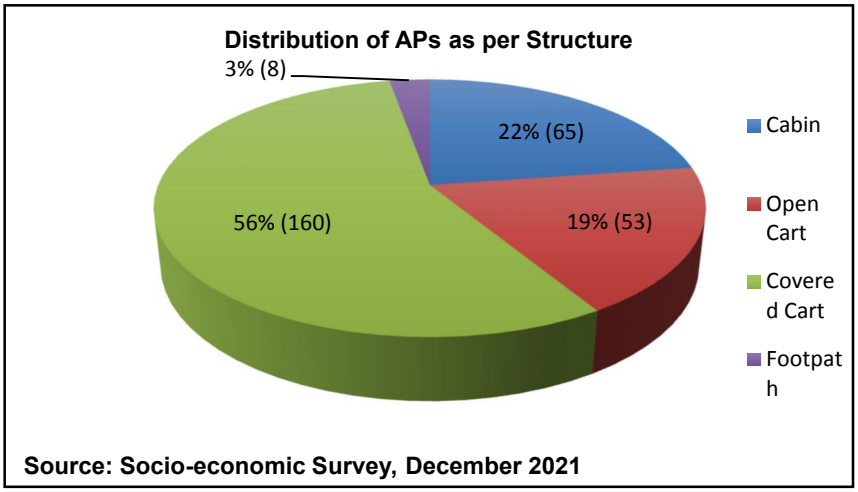
Caste Status	
GEN	11
OBC	260
SC	11
ST	4
	286



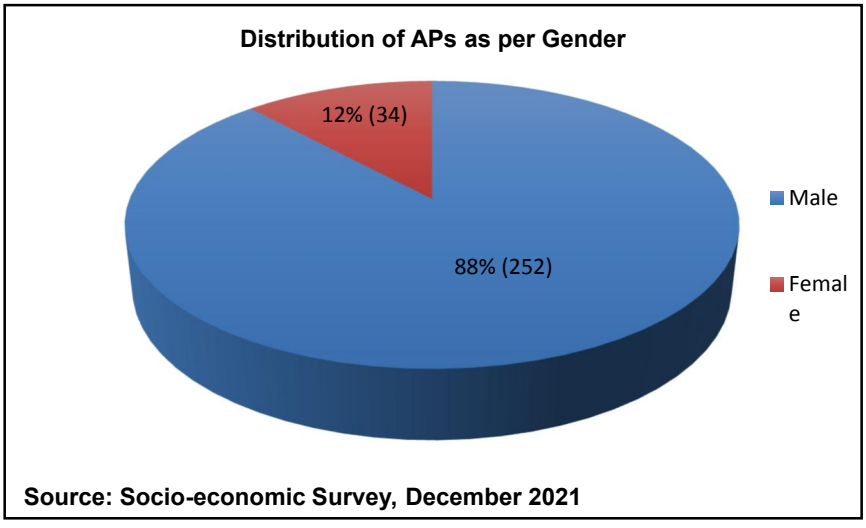
Type of Business	
Handicraft	110
Fruit and Vegetable	34
Snacks	37
Juice/ Ice-cream	25
Pan/ Cigarette	20
Others	60
	286



Type of Structure	
Cabin	65
Open Cart	53
Covered Cart	160
Footpath	8
	286



Gender	
Male	252
Female	34
	286



(a) Impacts on Indigenous People

Based on census and socio-economic survey, 4 potential APs, comes under scheduled tribe (ST) category may be impacted temporary and they should be given work opportunities during construction as casual labor or at project offices, which would help them earn wage and also provided vending cart and accommodated in the vending zone through this project for enhancement of their livelihood. Operational Policy Indigenous Peoples does not get triggered as these groups are not a distinct group and do not have any separate customary cultural, economic, social, or political institutions. It was found that they are well-versed with the local language - Hindi. There are also no adverse impacts on these as assessed during process and so therefore it was established that no separate Indigenous Peoples Development Plan/Tribal Vulnerable Development Plan is required.

(b) **Gender Considerations and Impacts.**

Among the affected persons may be facing involuntary resettlement impacts (temporary income loss) there are 34 females (female headed households), running their livelihood through selling of fruits, vegetables, handicraft items etc. They should be given work opportunities during construction as casual labor or at project offices, which would help them earn wage and also provided vending cart and accommodated in the vending zone through this project for enhancement of their livelihood. Under this project, following provision has been made:

The gender actions include the following:

1. Dedicated pathways and ramps for women tourists as well as vendors.
2. Well-lit separate toilets for men and women at parking lot and vending zones
3. Special care will be taken to settle/rehabilitate women hawkers/vendors at places/points which do not fall in dark spots
4. Covered resting places for women tourists as well as vendors.

5.4.3 IMPACT ON STRUCTURES WITHIN THE GOVERNMENT LAND IN RISHIPATTAN ROAD

On the basis of screening and site visits along the road stretches in Rishipattan Road (near Suheldev circle) it is observed that 8 families living in a kiosk near Suheldev circle and their relocation will be required as drainage and sewerage works are proposed under this subproject and this area has also been allotted for vending zone by Nagar Nigam. All the families were previously residing near Munnari road and occupied this place 2-3 year back. Details of families are as below:

TABLE 43: DETAILS OF FAMILIES LIVING NEAR PUBLIC TOILET, RISHIPATTAN ROAD

Name of Family head	Female members	Nos of Children	Type of occupation	Monthly Income	Caste
Lalita Devi	3	4	Labour	10000	OBC
Shiva Bharti	1	4	Cleaner	8000	SC
Santosh Bharti	1	3	Cleaner	8000	SC
Vindhyachali Bharti	2	8	Cleaner	8000	SC
Jawari Bharti	1	4	Cleaner	8000	SC
Lakhan Bharti	1	5	Cleaner	8000	SC
Sanjay Bharti	1	3	Cleaner	8000	SC
Guddu	1	6	Cleaner	8000	SC

Source: Transect walk and survey, Sept 2021

All the families shall be given three months' notice to vacate occupied land and as per entitlement matrix Rs. 5000[4](**Refer Table 15 (Entitlement Matrix) of ESMF**) will be paid as one time grant for each families. Extensive consultation was also held with that families and they have agreed to shift in their old location near Munnari road.

FIGURE 47: PHOTOGRAPHS OF KIOSK NEAR RISHIPATTAN ROAD

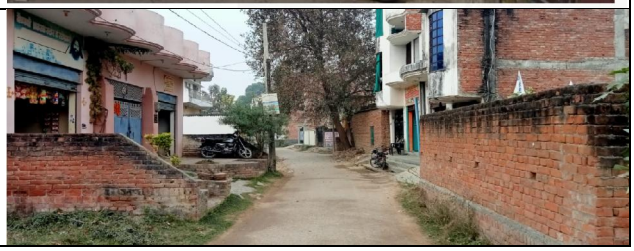


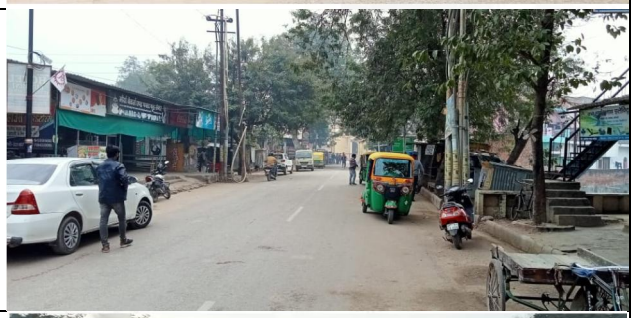
5.4.4 IMPACT ON LIVELIHOOD TO PERMANENT SHOPS-LAST MILE ROAD

On the basis of screening and site visits along the road stretches in last mile connectivity, it is observed that there are few petty businesses along the road and temporary livelihood impacts will be minimized by executing work during night hours and with proper safety measures.

[4] In case of Kiosks, Rs. 5000 will be paid as one time grant.

FIGURE 48: PHOTOGRAPHS OF SHOPS NEAR PROPOSED SITES-LAST MILE CONNECTIVITY

NAME OF STRETCHES	NOS OF PERMANENT SHOPS	
Ashok Marg to Sarangnath /Japanese Temple	12	
Durga Mandir to Majjhimasukha Monastery	2	
Durga mandir to Vietnamese (gulabi) monastery & Korean Temple	4	
Hanuman Mandir to Dharmapala road	12	
Munnari Road to Khajuhi (Buddha Smriti Park & Nyangmapa monastery	15	

Station to Durga Mandir	19	
Dharampala Market to Station	55	
Ashok road to Jumbodeep Srilankan Monastery	2	
Near Braj Vidya Mandir to Khajuhi Village	3	

Source: Transect Walk Sept& Nov 2021

Mitigation Measures: Works will be carried out in phased manner, upon due consultation with shop owners. Works in such areas will be executed in small stretches, section by section. Civil work will be completed in one section before commencing work on the next section. The contractor will ensure that noise levels are within limits and do not exceed 55 dB (A) as per Noise Pollution (Regulation & Control) Rules 2000 (Refer to the detailed plan given in environment management plan for this project). To further minimize construction impacts, work will be executed during the early hours of the day in order to avoid inconveniences to the public as well as traders and vendors. All safety norms would strictly be adhered to depending on the magnitude of work and the sensitivity of the location. The actual dates of construction schedule with respect to rush hour, festival time, and special business days will be

discussed with shop owners and residents, and accordingly, construction activities will be planned.

Measures to be taken up by contractor to avoid/mitigate economic impacts include: (a) announcement of proposed civil works in advance (to enable shop owners to stock up and remain unaffected if goods vehicles are unable to reach them during construction), (b) provision of planks to ensure pedestrian access; (c) careful timing of implementation to avoid peak sale hours/days or school timings; (d) minimizing construction period to the extent possible; (e) assistance to mobile vendors if any present during construction, to shift nearby; (g) signage with project details and contact details for grievance redress;

5.4.5 IMPACT ON COMMON PROPERTY RESOURCES:

Extent of impacts on common property resources (CPRs)[5] has also been assessed during initial impact assessment. There are some sensitive receptors (Mazar, -(1 nos) Water hut-(1 nos) Public toilet- (2 nos), Hand pump- (2 nos) in close proximity to the sub-project alignment in Dharampala road. As per design, there will be no impacts on these CPRs, although contractor have to take care of these CPRs during execution of works. These CPRs will be well covered during execution of works and entry of public will be restricted for a time being for avoid any mishappening.

FIGURE 49: CPR IN THE PROPOSED ALIGNMENT –DHARAMPALA ROAD



Public hand pumps



Mazar

[5] Common property resources include public resources and generally refer to community-owned facilities or cultural property such as temples, shrines, public utility posts, pastureland etc. Its usage is shared by a community group or set of groups.



Public Toilet



Hanuman Temple

5.4.6 COMMUNITY HEALTH AND SAFETY

In addition to that issues, the construction activities can result in significant increases in the activity of vehicles for the transportation of materials and waste soil, which is potential for traffic accidents and injuries to local communities as there are households living along the roads near the construction sites, traffic accidents and material spills may occur.

During the construction, workers are potentially at risks of contagious diseases and disease transferring, which may threaten their health and local communities. Contagious diseases that threat public health often involve in such activities as poor hygiene and low living conditions, sexually transmitted diseases and disease transferring.

5.4.7 RISKS AND ACCIDENTS

Labor accidents. Labor accidents may occur in any items during the construction.,

Fire, explosion and fuel leakage. These incidents may occur in transport and storage of fuel, or temporary power supply system is unsafe, causing deaths and property damage during construction.

Welding: Welding creates extremely strong light and may cause serious injury to workers ‘eyes. In extreme cases, it can lead to blindness. In addition, welding may create toxic emission that prolonged exposure can cause severe chronic illness.

5.4.8 IMPACT OF THE FLOW OF WORKERS IN THE SUBPROJECT AREA

During construction phase of the project, labourers for various jobs such as civil, mechanical and electrical works may be hired through authorized manpower agencies. The labour requirement may be from 200-300 workers during normal operations which can more during peak construction activities. It is also assumed that many of the labourers may be employed from outside the region and will therefore, be migrant labourers and hence, accommodation will be provided. These migrant labourers will be accommodated in a temporary campsite within the project area. This could result in stress on local resources, disruption in community relations, and movement of labourers.

Social impacts are critical to address, as even a modest labor influx already may lead to negative impacts on the host community. Pre-existing social issues in the host community can easily be exacerbated by the influx of labor. The list below indicates common categories of social risk associated with labor influx.

- **Risk of social conflicts:** Conflicts may arise between the local community and the construction workers, which may be related to religious, cultural or ethnic differences or based on competition for local resources. Tensions may also arise between different groups within the labor force, and pre-existing conflicts in the local community may be exacerbated. Ethnic and regional conflicts may be aggravated if workers from one group are moving into the territory of the other.
- **Increased risk of illicit behavior and crime**: The influx of workers and service providers into communities may increase the rate of crimes and/or a perception of insecurity by the local community. Such illicit behavior or crimes can include theft, physical assaults, substance abuse, prostitution and human trafficking. Local law enforcement may not be sufficiently equipped to dealwith the temporary increase in local population.
- **Influx of additional population ("followers"):** Especially in projects with large footprints and/or a longer timeframe, people can migrate to the project area in addition to the labor force, thereby exacerbating the problems of labor influx. These can be people who expect to get a job with the project, family members of workers, as well as traders, suppliers and other service providers (including sex workers), particularly in areas where the local capacity to provide goods and services is limited.
- **Impacts on community dynamics**: Depending on the number of incoming workers and their engagement with the host community, the composition of the local community, and with it the community dynamics, may change significantly. Pre-existing social conflict may intensify as a result of such changes.
- **Increased burden on and competition for public service provision:** The presence of construction workers and service providers (and in some cases

family members of either or both) can generate additional demand for the provision of public services, such as water, electricity, medical services, transport, education and social services. This is particularly the case when the influx of workers is not accommodated by additional or separate supply systems.

- **Increased risk of communicable diseases and burden on local health services:** The influx of people may bring communicable diseases to the project area, including sexually transmitted diseases (STDs), or the incoming workers may be exposed to diseases to which they have low resistance. This can result in an additional burden on local health resources. Workers with health concerns relating to substance abuse, mental issues or STDs may not wish to visit the project's medical facility and instead go anonymously to local medical providers, thereby placing further stress on local resources. Local health and rescue facilities may also be overwhelmed and/or ill-equipped to address the industrial accidents that can occur in a large construction site.
- **Child labor and school dropout.** Increased opportunities for the host community to sell goods and services to the incoming workers can lead to child labor to produce and deliver these goods and services, which in turn can lead to enhanced school dropout.
- **Local inflation of prices:** A significant increase in demand for goods and services due to labor influx may lead to local price hikes and/or crowding out of community consumers.
- **Increased pressure on accommodations and rents:** Depending on project worker income and form of accommodation provided, there may be increased demand for accommodations, which again may lead to price hikes and crowding out of local residents.
- **Increase in traffic and related accidents:** Delivery of supplies for construction workers and the transportation of workers can lead to an increase in traffic, rise in accidents, as well as additional burden on the transportation infrastructure.

Hence, the Labour Management Plan has been developed to addresses specific activities that will be undertaken to minimize the impact on the local community. (Ref Table 50). With a view to the potential impacts stemming from labor influx on the community, enhanced efforts will be made to reach out to men and women separately, as well as to different age groups and vulnerable groups. Project NGO will be conducted extensive public consultation process during implementation of the plans and ESIA consultant will have to close monitoring of contractor to ensure Labour Management Plan. ESIA consultant will have to ensure for effectiveness of GRM that is sensitive to all issues raised by community members. When the project anticipates major labor influx levels, this GRM should ideally be operated or overseen by an NGO. Consultant will Provide frequent reports on contractor compliance and same will be reported to SPCU.

5.4.9 GENDER-BASED VIOLENCE

Construction workers are predominantly younger males. Those who are away from home on the construction job are typically separated from their family and act outside their normal sphere of social control. This can lead to inappropriate and criminal behavior, such as sexual harassment of women and girls, exploitative sexual relations, and illicit sexual relations with minors from the local community.

i. Women are most susceptible to gender based harassment and violence during execution of project due to labour influx.
ii. Proper induction of labors by training and awareness workshops will reduce the chances of GBV. Further, the Contractor will ensure that workers are properly sensitized to the issues and sign a code of conduct for proper behavior at work place.
iii. Adequate safety and security of labors during project execution will also minimize such incidences.

CHAPTER 6. ANALYSIS OF ALTERNATIVES

Analysis of alternatives involves a thorough study of the possible future conditions in the project study area in response to set of alternatives without the project or status quo condition. Proposed infrastructure development will not only be based on infrastructure development in the area but also have the potential of livelihood improvement *i.e.* economic development and social upliftment of the area. Amenities such as vending zones, separate parking, tourist information centres, sewerage, drainage, public utilities and plantation etc. will be developed. These steps will boost the economy of the area/region and attract more tourists/visitors in the area ultimately enhance government revenue as well as preserves its natural sanctity.

The pro-poor approach adopted by the project also aims at catalyzing the impact of key sectors in a given area, such as accessibility/connectivity, environmental preservation, asset management and business development on local communities. The project will do so by promoting an integrated area-based approach in which tourist destinations and their iconic heritage assets are planned, promoted, served, stewarded and linked geographically. This area- based approach also allows for improved understanding of a given area's potential and linkages with other industries, the strengthening of the skills of the local population, and the promotion of small-scale entrepreneurship, especially amongst poor women and youth through establishment of creative indistry (Buddha Statue (soft-stone/mud, Handloom Sarees, Kala Namak Rice, Potato Snacks, Silk Brocade, Wooden Toys, Woollen Daris, Zardozietc) in the project areas.

Sarnath is rich in its natural and cultural heritage assets and attracts more tourist/visitors nationally as well as globally. The proposed project is an opportunity to development of basic infrastructure facilities along with socio-economic improvement of people of the area. A "No project Scenario" will not address the issues of basic facilities and improvement in socio-economic conditions of people of the area. An alternative without the project is undesirable, as it would worsen the condition of poor, aesthetics of the area which would be a constraint on economic growth and amenities of the area/region.

To evaluate further, both the option of "Proposed Project" and "No Project". Alternatives have been assessed against potential environmental and social impacts that are envisaged. With proposed project alternatives is considered the best possible option as opposed to "No Project" since the proposed project is considered creates better environmental conditions, aesthetics, natural sanctity and improves the socio-economic condition of poor in the area. The comparison of overall environmental and social impacts as a result of "Proposed Project" and "No Project" is given in Table 44.

TABLE 44: COMPARISON OF OVERALL ENVIRONMENTAL AND SOCIAL IMPACTS AS RESULT OF PROPOSED PROJECT

S.No.	Environmental / Social Impacts	Proposed Project (With Project)	No Project (Without Project)
1	Land/Soil	Significant beneficial impacts	No change in existing situation
2	Air Quality	Potential impact, not significant	No change in existing situation
3	Noise	Potential impact, not significant	No Change in existing situation
4	Waste Water	Potential impact, not significant	No Change in existing situation
5	Waste Generation	Potential impact, not considered significant	No Change in existing situation
6	Surface Water	No impact anticipated	No Change in existing situation
7	Ground water	Potential impact, not considered significant	No Change in existing situation
9	Flora & Fauna	Significant beneficial impact	No Change in existing situation
10	Socio-economic	Significant beneficial impact	No Change in existing situation
11	Cultural Property (Physical Cultural Resources)	Potential impact, not considered significant	No change in existing situation
12	Employment/ Livelihood improvement	Significant beneficial impact	No change in existing condition

CHAPTER 7: STAKEHOLDER CONSULTATION

7.1 STAKEHOLDER CONSULTATION

Consultation is a process in the project cycle in which an attempt is made to involve the public as stakeholders in project preparation through consultations and focus group discussion meetings. Stakeholder's participation and consultation have been viewed as a continual course of action, which promote public understanding and help eradicate hurdles in the way of the project. Consultation during project preparation is an integral part of the environmental and social assessment process that not only minimizes the risks but also removes the gap between the community and the project formulators, which leads to timely completion of the project and making it people friendly. Public consultations and community participation was an integral part of this project preparation. Consultation sessions were carried out with different stakeholder groups, so as to incorporate their concerns and needs. To ensure the effectiveness of the consultations and the full participation of all stakeholders in the project.

7.2 OBJECTIVE OF PUBLIC CONSULTATION

Keeping in mind the objective of minimizing adverse impact and the need of the stakeholders' participation for the smooth implementation of the project, consultation with the members of different sections of society and local communities of the project area were carried out. The consultation with people was done with the aim of building awareness among them.

The types of consultations undertaken are individual interviews, field level observations, community consultations and meetings. The main objectives of undertaking these consultations are as stated below:

- Dissemination of information to build awareness among stakeholders and inform them about the objective of the project;
- To inform stakeholders about the adverse and positive impacts of the project;
- To inform stakeholders about their cooperation and involvement at all stages i.e planning, construction and maintenance of project assets. It was informed that primary role is to facilitate and support the project contractor and line agency by contributing their experience and perspective to a project.
- Discuss about the training requirements to enhance their skills and livelihood options.

The primary and secondary stakeholders included (i) community having their shops and residence around the project area, (ii) Street vendors, (iii) visitors, (iv) students

and (v) government officials. These consultations provided inputs on environmental and social issues and in identification of the needs of the communities.

7.3 TOOLS APPLIED OF PUBLIC CONSULTATION & ITS OUTCOMES

Different tools were employed in interviews conducted and discussions ranged from informal and undirected to formal and directed. Focus Group Discussions, Interviews and Public Consultations were the three tools largely used; the latter being the most important of them.

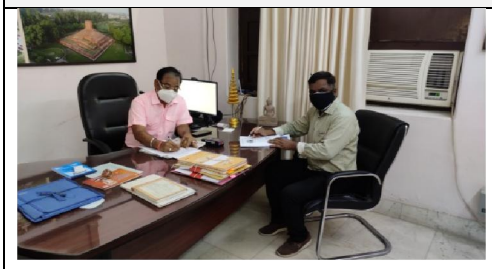
All relevant stakeholders have been identified covering the concerned department – Varanasi Development Authority/Nagar Nigam/ASI/PWD/ Health Department, Village population, – householders, shop owners/keeper.

Type	**Stakeholders**	**Interests, support & Opposition**
Local communities	Residents	Supportive
Government	Department of Tourism	Supportive
	Archaeological Survey of India	Supportive
	Department of Forest	Supportive
	Public Works Department	Supportive
	Power Corporation Ltd.	Supportive
	Jal Nigam	Supportive
	Jal Kal	Supportive
	Varanasi Nagar Nigam	Supportive
	Varanasi Development Authority	Supportive
	District Urban and Development Agency	Supportive
Private sector and service providers	Monasteries	Supportive
	Shopkeepers	Supportive
	Street vendors	Supportive

Several round of meeting and consultation was done with the officials of Varanasi Development Authority, Archaeological Survey of India (ASI), Forest Department, Sarnath, Turtle Rehabilitation and Breeding Centre, Sarnath and others and Requirement of Environmental and Social Impact Assessment and management plan was discussed in details. Ownership status and possibility of use of the site identified for alternate parking, alternate sites for vendors/ hawkers presently running their livelihood in Dharampala road, Tourist Information Centre etc.

TABLE 45: PHOTOGRAPHS OF STAKEHOLDER CONSULTATION

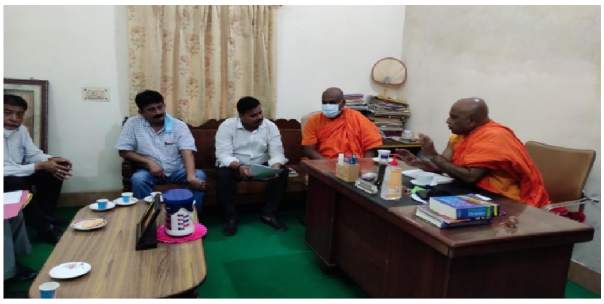
Stakeholder/Organizations	Key Discussion Points	Interventions in ESMP/ Intervention to address the issues raised
Government Officials		
Mr. Anil Kumar Dubey (Executive Engineer), Varanasi Development Authority (VDA), Varanasi Mr. O.P. Tripathi, (Assistant Engineer,) Varanasi Development Authority Mr. P.K. Gupta (Junior Engineer,Varanasi Development Authority) Mr. ManojKumar (Town Planner,Varanasi Development Authority 	Requirement of Environmental and Social Impact Assessment and management plan was discussed in details. Ownership status and possibility of use of the site identified for alternate parking, alternate sites for vendors/ hawkers presently running their livelihood in Dharampala road, Tourist Information Centre etc. was discussed. It was conveyed that construction activity is proposed within 100meter of the ASI protected Monuments, permission need to be required from ASI. It was suggested by EE, VDA that meeting will beorganized shortly with project contractor and new location for parking, vendoring zones will be decided..	Effective implementation of ESMP through implementing entities i.e. Varanasi Development Authority (VDA) during construction and operation phases of project.
Archaeological Survey of India (ASI), Sarnath Circle Dated 03.08.2021		
Dr. Neeraj Kumar Sinha (Superintending Archaeologist,) Archaeological Survey of India, Sarnath Circle, Sarnath Mr. Ambuj Kr. Singh(Surveyor) Archaeological Survey of India, Sarnath Circle, Sarnath	Requirement for permission of ASI and the process for permission was discussed as works proposed within 100 meter of the ASI protected Monuments. All the sites visited jointly and project scope was discussed. It was ensured that all the support will be provided from	Mitigation plan will be part of ESMP. To mitigate any adverse impact, physical cultural resource management plan will be strictly implemented during construction. All the works carried out during as per AMASR Act and in due consultation with ASI officials.

Stakeholder/Organizations	Key Discussion Points	Interventions in ESMP/ Intervention to address the issues raised
	ASI Sarnath circle for smooth execution of the project.	
Forest Department, Sarnath dated 06.08.2021		
Mr. Ram Avadh Yadav (Retd. Dy. Ranger, Forest Department, Sarnath) 	It was informed that Sarnath deer park/ mini zoo is very close to proposed site at about 100-meter distance. Turtle wildlife sanctuary in Varanasi was about 8.1km. Requirement for permission of Forest Department and the process for permission was discussed. It was requested for provide details of tree and plant that comes within project areas.	Mitigation plan is part of ESMP. To mitigate any adverse impact on natural habitat such as Deer Park/mini zoo, suitable measures will be part of ESMP.
Mr. NIshikant Swarnkar(Ranger) Turtle Rehabilitation and Breeding Centre, Khajuhi 	Meeting with Ranger, Turtle Rehabilitation and Breeding Centre at Khajuhi, Sarnath dated on 25/08/2021 regarding proposed project activities in Sarnath. He welcomed the proposed project activities and requested to keep the sanctity of the area as such during and after implementation of the project.	Mitigation plan is given in ESMP and measures of environmental will be strictly adhered as per rules during construction.
Mr. Mahavir Kaujalgi (DFO) Circle Varanasi, Varanasi	Meeting with DFO Circle Varanasi dated 09/09/2021 regarding proposed project activities under the project in Sarnath, permission of tree cutting/ relocate procedure etc.	Mitigation plan will be part of ESMP and measures of environment will be strictly adhered as per rules during implementation.

Stakeholder/Organizations	Key Discussion Points	Interventions in ESMP/ Intervention to address the issues raised
	He welcomed the proposed project activities and requested to keep the sanctity of the area as such during and after implementation of the project. Plantation measures will maintain ecological balance and biodiversity in the area.	

Meeting with Officials of Mahabodhi Society, Sarnath dated 04.10.2021 & 28.10.2021

A meeting with General Secretary & Incharge of Mahabodhi Society was held on dated on 04.10.2021 in the presence of Tourism Department Officials, Ex. En. and A.En. & J.En. of VDA and STC expert regarding proposed project in Sarnath. It was conveyed by General Secretary of Mahabodhi Society that no proper sewerage facilities in that areas and open sewerage flowing which creats heath issues. This issues should be incorporated in the design. He also suggested to keep the sanctity of the area as such during and after implementation of project.





Stakeholder meeting was held on dated 27.06.2020 Chaired by Commissioner, Varanasi Division, regarding the tourism related works proposed in Sarnath under the Pro-Poor Tourism Development Project supported by World Bank.

During meeting, it was discussed that requirement of parking places are utmost need in Sarnath. Land requirement/ availability regarding proposed project was also discussed. Participants were ADM, Town Planner, Varanasi Development Authority, Superintending Archaeologist (ASI), Sarnath, Tourism Officer, Regional Police Officer, Executive Engineer of Public Works Department, Nagar Nigam and officers of Ganga Pollution. During meeting decisions were made on development of promenade from

museum tiraha to Dharmpala market. It was directed from the chair that suggestion of departments i.e tourism department, ganga pollution and jal nigam need to incorporated in the project scope.Requirement of approach road for all 26 temples comes under Sarnath Heritage Zone, Library facilities in Budha Theme Park along with CCTV, Wi-Fi and LED screen showing entire Sarnath area was discussed in details. (Minutes of meeting attached in Annexure 5)

Stakeholder meeting at Office of the Commissioner, Varanasi dated 31.08.2021 regarding tourism related works proposed in Sarnath assisted by World Bank.

Meeting was organised under the chairmanship of Honorable Tourism Minister, Govt of U.P in the office of commissioner Varanasi regarding Pro- Poor Tourism Development project Sarnath. Besides the proposed civil works, requirement of Environmental and Social safeguards was also discussed in detail. It was conveyed by Honorable minister that all the departments (ASI, PWD, Nagar Nigam, VDA, Police Department etc.) cooperation will be required for smooth execution of Sarnath areas subproject. It was also conveyed that this project is based on pro-poor approach, so works/design should be made with considering that minimum negative impacts will be on local public as well as petty businesses. All the department officials ensured for their support for this project. (Minutes of meeting attached in Annexure 5(a))

TABLE 46: PHOTOGRAPHS OF STAKEHOLDER MEETING

<table>
<tr><td> 
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<tr><td>  </td><td> 
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<tr><td colspan="2">Participants:
1. Mr. Dushyant Kumar Maurya, Additional Commissioner, Nagar Nigam</td></tr>
</table>

2. Mr. D.K. Puri, Additional D.C.P, Traffic
3. Mr. Moinuddin, Chief Engineer, Nagar Nigam
4. Mr. Dwarka Singh, Chief Engineer, UPPCL
5. Mr. A.K. Singh, Suptg. Engineer, Jal Nigam
6. Mr. Ashutosh Shrivastava, Superintending Engineer, VDA
7. Mr. Anand Kumar Mishra, Executive Engineer, VDA
8. Mr. Anil Dubey, Assistant Engineer, VDA
9. Mr. L.B. Dubey, Civil Engineer, VDA
10. Mr. S.K. Ranjan, P.M., Ganga Pollution
11. Mr. S.P. Pandey, P.M., K.K. Construction and Builders
12. Mr. V.K. Srivastava, A.S.O., UPPCB
13. Mr. Deepak Agarwal, S.C., UPPCL
14. Mr. Raghuvendra Kumar, General Manager, Jal Kal
15. Ms. Priya Singh, TIO, Tourism
16. Mr. Chandra Shekhar Chouhan, TL, STC
17. Mr. Jyoti Mitra, Director, ADPL
18. Mr. S.K. Tripathi, VACL
19. Mr. Anil Kumar Singh, Assistant Archaeologist
20. Ms. Jaya Singh, PO., DUDA

A series of questionnaire-based interviews were also conducted to project affected persons regarding the perception of shifting in new vending zones and their cooperation It was informed that under this subprojects, basic infrastructures like drainage, street light pavement road will be developed. It was informed that under this subproject, new vending zone in surrounding areas will be developed and all the vendors will be accommodated in newly vending zones and all the facilities like sanitation, drinking water, dust bin, sitting arrangement for tourist will be developed in vending zone. If required skill training will also be provided for enhancement of their livelihood. It was requested by vendors that new vending zone should be developed in near that areas, so they can provide /deliver their items to the tourist.

TABLE 47: CONSULTATION-WITH PAP






Varanasi, Uttar Pradesh, India
Google



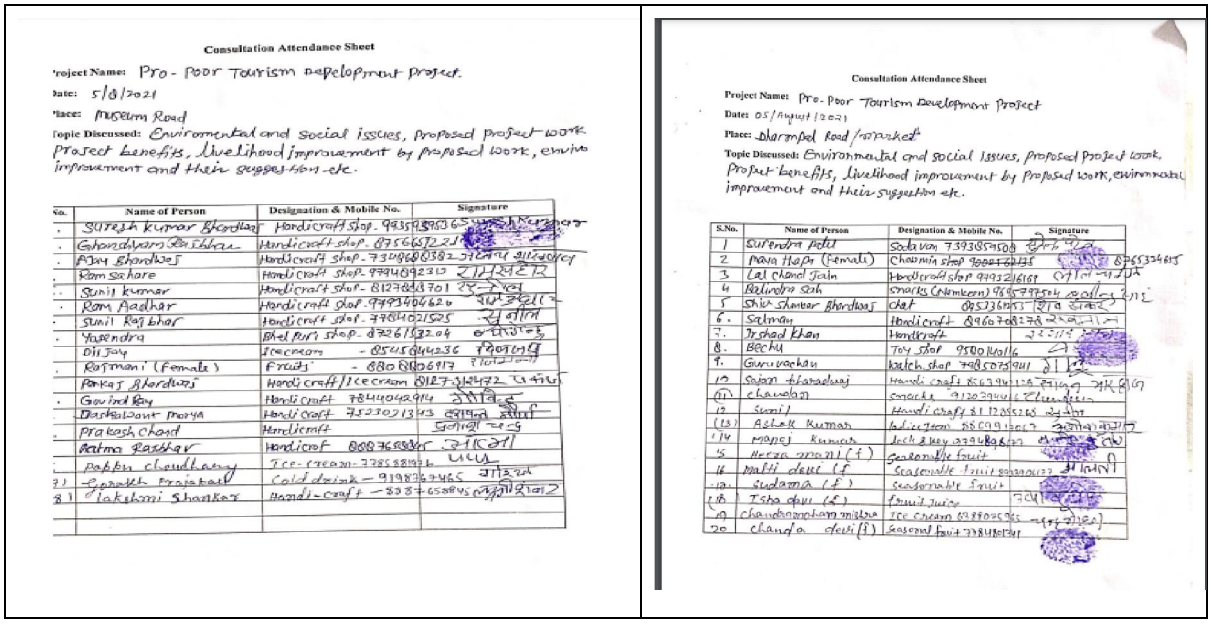

Varanasi, Uttar Pradesh, India
92CG+W2Q, Sarnath, Varanasi, Uttar Pradesh 221007, India
Lat 25.372355°
Long 83.024897°
06/08/21 04:08 PM
SARNATH
Google


Varanasi, Uttar Pradesh, India
92FF+2WJ, Sarnath, Varanasi, Uttar Pradesh 221007, India
Lat 25.372598°
Long 83.024835°
06/08/21 04:18 PM
SARNATH
Google




maaza

Attendace sheet



Consultation Attendance Sheet

Project Name: Pro- Poor Tourism Development Project.

Date: 5/8/2021

Place: Museum Road

Topic Discussed: Environmental and Social issues, Proposed Project work. Project benefits, livelihood improvement by proposed work, enviro improvement and their suggestion etc.

No.	Name of Person	Designation & Mobile No.	Signature
.	Suresh kumar Bhardwaj	Handicraft Shop. 9935	
.	Gobindwari Sahkhar	Handicraft shop. 8756	
.	Ajay Bhardwaj	Handicraft shop-7310	
.	Ram sahare	Handicraft shop 9794	
.	Sunil kumar	Handicraft shop- 8127	
.	Ram Aadhar	Handicraft shop 9793	
.	Sunil Rajbhar	Handicraft shop. 7780	
.	Yashendra	Bhel Puri shop. 8726	
.	Dilip	Icecream - 8505	
.	Rahmani (Female)	Fruits - 880	
.	Pankaj Bhardwaj	Handicraft/Icecream 8127	
.	Govind Roy	Handicraft 7844	
.	Dashrathdant Maya	Handicraft 7523	
.	Prakash Chand	Handicraft	
.	Ratna Rajbhar	Handicraft 8887	
.	Pappu chaudhary	Ice-cream- 7785	
71	Gopal Prajapati	Cold drink - 9198	
81	Lakshmi Shankar	Handi-craft - 8337	

Consultation Attendance Sheet

Project Name: Pro- Poor Tourism Development Project

Date: 05/August/2021

Place: Sharnpal Road/market

Topic Discussed: Environmental and Social issues, Proposed Project work, Project benefits, livelihood improvement by proposed work, environmental improvement and their suggestion etc.

S.No.	Name of Person	Designation & Mobile No.	Signature
1	Surendra patel	Sodavan 7393859508	
2	Pava Hapa (Female)	Chaumin shop 9044762735	8765324615
3	Lal chand Jain	Handicraft shop 9793216168	
4	Rajendra Sah	Snacks (Namkeen) 9628778554	
5	Shiv Shankar Bhardwaj	chat 9853	
6.	Salman	Handicraft 8960	
7.	Irshad khan	Handicraft	
8.	Bachu	Toy shop 9580	
9.	Guruvachan	kulch shop 7985	
10	Sajan bharadwaj	Handicraft 8569	
(11)	chawlan	snacks 9120	
12	Sunil	Handicraft 8127	
(13)	Ashok kumar	Icecream 8809	
14	Manoj kumar	Tech & key 7394	
15	Heera mani (f)	Seasonable fruit	
16	Matti devi (f	Seasonable fruit	
17	sudama (f)	Seasonable fruit	
18	Isha devi (f)	fruit Juice	
19	chandramani mishra	Ice Cream 9889	
20	Chanda devi (f)	Seasonal fruit 7318	

7.4 WOMEN'S PARTICIPATION IN CONSULTATIONS AND OUTCOMES

Focus Group Discussion: Public consultation is a continual process. In order to document the issues, Focus Group Discussions were conducted with the identified groups in surrounding villages of project sites. At every consultation meeting, women were encouraged to participate and their views & opinions were heard. It was conveyed that they are mostly involves in household's businesses and if opportunities will be provided, they will set-up business for financial support for her family. Objectives of pro-poor tourism project was briefed them.

During FGD some other concerned/issues raised regarding project by the women group:

- Women from poor families concerned indicated that they should be given work opportunities during construction as casual labor or at project offices, which would help them earn wages.
- Some women demanded to operate individual/ family enterprise by opening small tea stalls, shops/eateries to provide meals to the construction officials/ temporary laborers coming from outside. This will enhance their family income as well as their entrepreneurial skill, which may be useful in future.
- They informed that drinking water facilities and community toilets in Sarnath areas need to be developed and their maintenance and cleanness will be required regularly that's are presently lagging. Resting shed in that areas also need to be developed as they suggested.

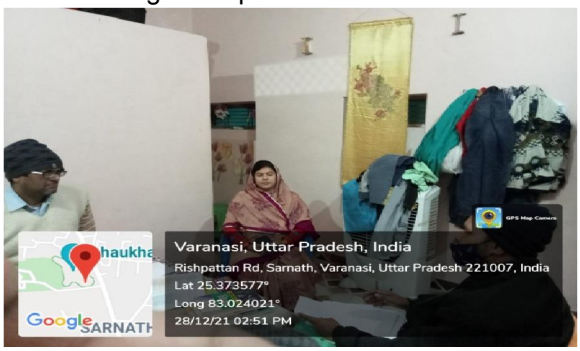
FIGURE 50: CONSULTATION-WITH FEMALE IN SURROUNDING VILLAGES OF PROPOSED SITES




FGD in Village-Baraipur




FGD in Village-Benipur





FGD in Village-Ganj




FGD in Village- **Ghurahupur**




FGD in Village- **Khajuhi**



FGD in Village- **NAVAPURA**



FGD in Village- **PRASHURAMPUR**

Attendance sheet

Consultation Attendance Sheet

Project Name: Pro-Poor Tourism Development project

Date: 6/8/2021

Place: Khajuhi

Topic Discussed: Environmental and social issues, project project
Project benefits, livelihood improvement by proposed work, envir
improvement and their suggestion etc.

S.No.	Name of Person	Designation & Mobile No.	Signature
1.	Rajendra Sharma	Local people 8800253112	
2.	Pema Tenkyong	Bath Monk 7307250307	
3	Moti Lal	Black smith	
4.	Anand Bhardwaj	Local people 9829	
5.	Kanta Prasad	Local People	
6	~~Gulab~~ Gulab Prasad	Carpenter 8000	
7	Leela Yadav	Medical Shop- Gurusewak Vishala shop	
8	Dhanesh Kumar	Canteen Shop- 9929	
9	Sridhar mahajan	Vegetable shop- 7976	

Project Name: Pro. Poor Tourism Development Project.

Date: 6/8/2021

Place: Rangoli Tipaha Road

Topic Discussed: Enviranmental and social issues, proposed project lo
project benefits, livelihood improvement by proposed loork, environ
improvement and their suggestion etc.

S.No.	Name of Person	Designation & Mobile No.	Signature
1)	Rajkumar	smoke shop 8800540155	
12)	Nand lal yadav	Tea shop 7908	
3.	Sita Devi (S)	Tea Shop 8726	
4	Mithoon Kanungjia	local people 9797	
15	Hanuchand	destinguished 9616	
16	Shyam lal	local people 8117	

CHAPTER 8. ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

8.1 OVERVIEW

The ESMP presented in this chapter summarizes the key impact elements identified and the remedial measures, the actions to be taken by various parties and the monitoring activities. An indication of the time scale for implementation and cost involved is also provided. The implementation of the ESMP should be done within the provisions of the law and for the ultimate benefit of the people in the project area. The effectiveness of the ESMP shall be monitored and assessed during spot checks, formal inspections and at the end of the project.

A Construction Environmental and Social Management Plan is a practical and achievable plan of management to ensure that any environmental impact during the design, planning and construction phase is minimized. An Operational Environmental and Social Management Plan is focused on sound environmental management practices that will be undertaken to minimize adverse impacts on the environment through normal operation of a facility.

8.2 OBJECTIVES

- Ensure the compliance with the World Bank's regulations as well as India legal system, standards and guidelines applied at the project levels.
- Ensure that sufficient resources are allocated based on the subproject budget to carry out the activities related to the ESMP.
- Ensure that the environmental and social risks of the Subproject are adequately predicted and managed.
- Ensure specific and feasible response plan with unforeseen environmental issues in the subproject's environmental impact assessment.
- Create an effective feedback mechanism for further improving environmental protection results.
- The Environmental and Social Management Plan (ESMP) outlines mitigation, monitoring and institutional measures that will be implemented during the development and operation of the project to avoid or control adverse impacts on the environment, society and outlines the actions required to implement mitigation measures. The ESMP creates a useful link between adverse impact and mitigation measures and ensures that such measures are implemented.
- The ESMP imposes responsibilities for the implementation, monitoring, time and cost for the proposed mitigation measures.

The summary of the Subproject's environmental and social management plan is presented in the following sections.

The main issue is the relocation of PAP from Dharampala Road/Rishipattan Road/Ashoka Road and Station road to proposed vending zones. As per discussion with project contractor, works will be executed phase wise/section wise and livelihood impacts of vendors will be minimized through the shifting of street vendors across the lane (on the other side of road). Although Subsistence allowance of Rs. 36,000 as one-time grant has been considered in the resettlement budget of RAP for an anticipated impact on vendors during execution of works. In addition to that Subsistence allowance of Rs. 5000 of each families living in a kiosk near Rishipattan road is also considered in the resettlement budget.

TABLE 48: RESETTLEMENT BUDGET

S. No	Item	Unit No.	Amount INR
A	**Resettlement Costs**		
1	Subsistence allowance of Rs. 36,000 as one time grant.	286	10296000
2	Subsistence allowance of Rs. 5000 for AHs	8	40000
	Sub-Total A		10336000
B	Contingency (20%) for any anticipated impactson PAP including skill training of PAPs & Training (Gender Specific actions) and capacity building (hawkers/vendors) cost		2067200
	Grand Total (A+B)		**12403200**

Source: RAP

Note: Project NGO will be providing skill training to PAPs and linked with govt schemes to avail benefits.

8.3 GENERAL MITIGATION MEASURES TO CONSTRUCTION IMPACTS

Mitigation measures are developed based on the project ESMF and World Bank Group's environment, health and safety guidelines and national regulations and standards to minimize construction impacts, in general. The mitigation measures are identified for the following issues:

- Physical Cultural Resources (PCRs)
- Dust and emissions;
- Vibration and noise;
- Waste management;
- Management of hazardous materials and chemicals;
- Management of camps;
- Traffic safety management;
- Interruption of infrastructure services;
- Management of labor influx;
- Occupational health and safety;
- Community Health and safety;
- Communication with the local community

TABLE 49: ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES FOR THE SUBPROJECT COMPONENT OF THE PROJECT DURING CONSTRUCTION PHASE

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
Component 1: Promenade Development (Dharampala Road)				
▪ Elevated Noise and Dust Pollution ▪ Disruption to Traffic and visitor's movement: ▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Disruption to local community/ pedestrian movement: ▪ Safety hazards during construction ▪ Health risk due to unhygienic conditions at worker's camp	▪ The main stationary noise producing sources such as generators sets shall be provided with noise acoustic enclosures around them. Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly. ▪ Noise to be monitored as per monitoring plan and if the noise level at any time found to be higher than immediate measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage. Avoid over spillage of materials. Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated	Project cost	Contractor	Environmental Specialist (ES) of Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	materials will be controlled either by covering the stockpiled materials or water spraying over it. Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Site specific traffic management plan shall be prepared and approved by the Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. ▪ The plan should also contain appropriate arrangement during peak hours. Necessary permission for the traffic management plan and the implementation plan shall be obtained from Transport Department and local administration. ▪ Complete barricading shall be erected around the project site to avoid hazards to any pedestrian movement or avoid any disruption of public movement,			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	construction nuisance and prevent any damage to property etc. ▪ Physical cultural resource (PCR) management plan will be prepared in consultation with ASI to control adverse impact if any on ASI structures within subproject component. Prior permission is required from ASI as well NMA before commencement of works. ▪ Access will be provided to local people/ community of nearby area. ▪ The labour camp will be located away from water bodies, schools and residential areas. The camp will be constructed with proper accommodation facilities. All camps will be provided with proper sanitation facilities, separate toilets and bathrooms for male and female workers, septic tanks with soak pit of sufficient size and dust bin arrangement etc.			
Component 2: Last Mile Connectivity				
▪ Elevated Noise and Dust Pollution ▪ Disruption to Traffic and visitor's movement: ▪ Health and Safety of Pedestrian ▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc:	▪ Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly. ▪ Noise to be monitored as per monitoring plan and if the noise level at any time found to be higher than immediate	Project cost	Contractor	Environmental Specialist (ES) of Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
▪ Disruption to local community/ pedestrian movement: ▪ Safety hazards during construction ▪ Water Quality of surface water body- Disposal of domestic/ construction waste & Siltation in water body	measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage. ▪ Avoid over spillage of materials during transportation. ▪ Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated materials will be controlled either by covering the stockpiled materials or water spraying over it. ▪ Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Site specific traffic management plan shall be prepared and approved by the			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. However, road is very congested/ narrow at various places in last mile connectivity so contractor is required to adequate precaution will have required to prevent any mishap/ damage to public/property located in vicinity of subproject site. ▪ The plan should also contain appropriate arrangement during peak hours. Necessary permission for the traffic management plan and the implementation plan shall be obtained from Transport Department and local administration. ▪ Complete barricading shall be erected around the project site to avoid hazards to any pedestrian movement or avoid any disruption of public movement, construction nuisance and prevent any damage to property etc. ▪ Access will be provided to local people/ community/ monasteries of nearby area/ houses during construction work.			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	▪ All water and liquid waste arising from construction activities will be properly disposed off and will not be discharged into any water body/drain without adequate treatment. ▪ Littering or unauthorized discharge will not be permitted. ▪ The construction material and debris will be stored away from the water bodies and only on the designated site along the construction zone. ▪ Permission of the engineer and the concerned regulatory authorities will be obtained for disposal of the waste as the designated disposal site/s. ▪ The water body will be kept free from dumping of solid waste and earth materials. ▪ Arrangement of silt traps will be taken near the water body to control siltation during construction.			
Component 3: Crossings and Gates				
▪ Elevated Noise and Dust Pollution ▪ Disruption to Traffic and visitor's movement: ▪ Health and Safety of Pedestrian	▪ Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly. ▪ Noise to be monitored as per monitoring plan and if the noise level at any time	Project cost	Contractor	Environmental Specialist (ES) of Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
▪ Damage to existing infrastructure such as public utilities, amenities, PCR etc: ▪ Disruption to local community/ pedestrian movement: ▪ Health & Safety hazards during construction	found to be higher than immediate measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided PPEs i.e. earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage. Avoid over spillage of materials during transportation. ▪ Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated materials will be controlled either by covering the stockpiled materials or water spraying over it. ▪ Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Site specific traffic management plan shall be prepared and approved by the			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. ▪ The plan should also contain appropriate arrangement during peak hours. Necessary permission for the traffic management plan and the implementation plan shall be obtained from Transport Department and local administration. ▪ Complete barricading shall be erected around the project site to avoid hazards to any pedestrian/ visitor movement and avoid any disruption to public movement, construction nuisance and prevent any damage to property etc. ▪ Museum is very close to the proposed site, Physical Cultural Resources (PCR) management plan will be prepared in consultation with ASI to control adverse impact if any on Museum near subproject component. Prior permission from ASI/NMA will be required before commencement of works.			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	▪ Contractor will follow strictly the Chance find protocol and in case of found any item/ materials of cultural and / or archaeological importance during construction the execution of the project. Contractor are required to report relevant authorities comply with World Bank's safeguard policy on Physical and Cultural Resources and Monuments and Archaeological Sites and Remain Act, 1958 & as amended Act, 2010.			
Component 4: Parking and Traffic calming infrastructure				
▪ Impact on Physical Cultural resources *i.e.* Archaeological excavated remains and Chaukhandi Stupa etc. ▪ Impact on Deer Park/ pond ▪ Safety hazards during construction ▪ Elevated Noise and Dust Pollution ▪ Disruption to Traffic and visitor's movement:	▪ Proposed parking near Rishipattan road is in-front of Chaukhandi Stupa which lies within 100m and 200m prohibited and regulated area of ASI. Impact will be limited and proposed activities will be as per AMASR Act. NOC from ASI/NMA will be required before commencement to work. ▪ Proposed parking within MRC campus is located within 100m prohibited area of ASI Excavated remains. However, impact will be limited as proposed activities are in line with AMASAR Act. NOC from ASI/NMA will be required before commencement to work. ▪ Proposed Parking within Buddha Theme Park falls within 100m and 200m of	Project cost	Contractor	Environmental Specialist (ES) of Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	Prohibited and Regulated Area of ASI excavated remains. However, impact will be limited. Deer park is close (approx. 150m in south direction) to proposed parking at Buddha Theme Park. However, impact will be limited and adequate measure of air and noise abatement will be strictly adhered. NOC from ASI/NMA will be required before commencement to work. ▪ Contractor will follow strictly the chance find protocol and in case of found any item/ materials of cultural and / or archaeological importance during construction the execution of the project. Contractor are required to report relevant authorities comply with World Bank's safeguard policy on Physical and Cultural Resources and Monuments and Archaeological Sites and Remain Act, 1958 & as amended Act, 2010. ▪ Prepare physical cultural resources (PCR) management plan (if needed). ▪ Pond is located at Deer Park about 300m distance in South East direction of proposed intervention. No impact will be anticipated as proposed activities will be confined within boundary of Buddha			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	Theme park. No other areas will be disturbed/ impacted. ▪ During construction there may be potential for temporarily hazards such as injuries and damage to public/ pedestrian. Impact will be limited. Safety signage board will be adhered at/ near the site. Construction site will be properly barricading to avoid any mishap of nearby building/public etc. ▪ Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly. ▪ Noise to be monitored as per monitoring plan and if the noise level at any time found to be higher than immediate measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage.			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	▪ Avoid over spillage of materials during transportation. ▪ Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated materials will be controlled either by covering the stockpiled materials or water spraying over it. ▪ Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Specific traffic management plan shall be prepared and approved by the Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. ▪ The plan should also contain appropriate arrangement during peak hours. Necessary permission for the traffic management plan and the			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	implementation plan shall be obtained from Transport Department and local administration.			
Component 5: Tourist Information/ Interpretation Centre				
▪ Impact on Physical Cultural Resources *I.e.* Archaeological excavated remains ▪ Dust and Noise Pollution ▪ Disruption to traffic and visitor's movement	▪ Tourist information centre proposed within MRC campus is located within 100m prohibited area of ASI Excavated remains. However, impact will be limited as proposed activities are in line with AMASAR Act. NOC from ASI/NMA will be required before commencement to work. ▪ Contractor will follow strictly the chance find protocol and in case of found any item/ materials of cultural and / or archaeological importance during construction the execution of the project. Contractor are required to report relevant authorities comply with World Bank's safeguard policy on Physical and Cultural Resources and Monuments and Archaeological Sites and Remain Act, 1958 & as amended Act, 2010. ▪ Prepare physical cultural resources (PCR) management plan (if needed). ▪ Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly.	Project Cost	Contractor	Environmental Specialist (ES) of Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	▪ Noise to be monitored as per monitoring plan and if the noise level at any time found to be higher than immediate measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage. ▪ Avoid over spillage of materials during transportation. ▪ Dust control measures shall be put in place; all work areas to be enclosed with dust screens. ▪ Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated materials will be controlled either by covering the stockpiled materials or water spraying over it. ▪ Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Site specific traffic management plan shall be prepared and approved by the Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. ▪ The plan should also contain appropriate arrangement during peak hours. Necessary permission for the traffic management plan and the implementation plan shall be obtained from Transport Department and local administration. ▪ Complete barricading shall be erected around the project site to avoid hazards to any pedestrian/ visitor movement and avoid any disruption to public movement, construction nuisance and prevent any damage to property etc.			
Component 6: Street Markets and Vendors				
▪ Impact on Physical Cultural resources *i.e.* Archaeological	▪ Munnari Vending Zone: Some part of road falls under ASI (excavated remains)	Project Cost	Contractor	Environmental Specialist (ES) of

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
excavated remains and Chaukhandi Stupa etc. ▪ Safety hazards during construction: ▪ Elevated Noise and Dust Pollution: ▪ Disruption to local community/ pedestrian movement: ▪ Damage to existing infrastructure such as public utilities, amenities etc. ▪ Tree cutting/ relocate	protected area and rest in 100m and 200m prohibited and regulated area. However, impact will be limited as activities proposed are mainly rehabilitation/ repair work. Adequate precautions will be taken care during construction activity. ▪ Rishipattan Vending Zone: Vending zone is proposed somewhere along the roadside on Rishipattan road. Nearest ASI protected structure i.e. Chaukhandi Stupa is located along Rishipattan Road. Impact will be limited during renovation/ rehabilitation activities. ▪ Contractor will follow strictly the chance find protocol and in case of found any item/ materials of cultural and / or archaeological importance during construction the execution of the project. Contractor are required to report relevant authorities comply with World Bank's safeguard policy on Physical and Cultural Resources and Monuments and Archaeological Sites and Remain Act, 1958 & as amended Act, 2010. ▪ Physical cultural resource (PCR) management plan will be prepared in consultation with ASI to control adverse impact if any on ASI structures within			Consultant and VDA/ TSU/ SPCU

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	subproject component. Prior permission is required from ASI as well NMA before commencement of works. ▪ Excavation and construction methodology to be used near the monuments (within the regulated area of 300m of any monument) shall be in line with the ASI recommendations. ▪ Suheldev Vending Zone: Trees are existing along the road somewhere may require cutting/ relocate. However, try to avoid cutting of trees during work. Impact will be limited. ▪ During construction there may be potential for temporarily hazards such as injuries and damage to public/ pedestrian. Impact will be limited. Safety signage board will be adhered at/ near the site. Construction site will be properly barricading to avoid any mishap of nearby building/public etc. ▪ Plant and equipment used for construction will strictly conform to CPCB standards. Vehicles and equipments used will be fitting with silencer and maintained accordingly. ▪ Noise to be monitored as per monitoring plan and if the noise level at any time found to be higher than immediate			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	measures to reduce noise in that area will be ensured. All workers working very close to the noise generating machinery shall be provided earplug to avoid any ill impacts on their health. ▪ Water will be sprayed during construction phase, in earth handling sites, other excavation areas for suppressing fugitive dust. Water sprinkling and transporting construction materials cover with tarpaulin during the construction stage. ▪ Avoid over spillage of materials during transportation. ▪ Sprinkling of water will be carried out on regular basis during the entire construction period. Dust emission from stockpiles of excavated materials will be controlled either by covering the stockpiled materials or water spraying over it. ▪ Ambient air quality to be monitored as per the monitoring plan and if the air quality at any time found exceeds than immediate measures to control air pollution in that area will be ensured. All the vehicles used during the construction stage to have valid PUC certificate. ▪ Site specific traffic management plan shall be prepared and approved by the			

Potential Environmental Impacts	Mitigation Measures	Estimated Cost (In INR)	Responsible Agency	Supervision
	Engineer-in-charge prior to commencement to works. The plan shall contain details of temporary diversion, traffic, safety arrangements, safety signs and flagmen around exposed to construction sites to warn the public and ensures smooth traffic flow. ▪ Complete barricading shall be erected around the project site to avoid hazards to any pedestrian movement or avoid any disruption of public movement, construction nuisance and prevent any damage to property/building etc. ▪ Access will be provided to local people/ community of nearby area. ▪ During construction to prevent any damage to existing infrastructure, prior permission will be required from concerned authority regarding utility shifting such as electric poles, telephone lines & water pipelines etc. ▪ Prior permission will be required from concerned authority/ forest department regarding cutting/ relocation of trees etc.			

TABLE: 50: SOCIAL IMPACTS AND MITIGATION MEASURES FOR THE SUBPROJECT COMPONENT OF THE PROJECT DURING CONSTRUCTION PHASE

Impact Description	Mitigation Measures	Responsibility	Cost
Socio-Economic Environment			
Physical and Economic Displacement	➢ Involuntary resettlement impacts of the project will be in accordance with national laws and as per agreed ESMF. ➢ When livelihood impacts cannot be avoided, appropriate compensation for loss of temporary livelihood will be provided through project-specific measures to be developed for displaced person. These forms of compensation will be planned within the scope of RAP.	VDA/SPCU/ ESIA Consultant	Included in RAP Budget
Impacts on Local Economy, Livelihood Sources and Employment	➢ In order to ensure minimum negative impact and maximum positive impact on the local economy, it is important that the consultations and the grievance mechanism are properly operated.	Contractor	
Utility Relocation and common property resources	➢ In case of utilities and common property resources being impacted due to the project, they will be relocated with prior approval of the concerned agencies before construction starts. The relocation site identification will be in accordance with the choice of the community.	Contractor/ VDA/SPCU	
Impacts on Infrastructure Status and Social Services	➢ The construction phase can have an abrasive effect on roads. In order to prevent such effects from affecting daily and economic life negatively, it is recommended that complaints about the issue are taken into consideration and necessary maintenance and repair works are carried out. ➢ Construction vehicles can also cause physical damage due to various accidents. Fences, walls, trees, etc. can be damaged due to construction activities. Damaged assets should also be compensated. These situations should be stipulated in contractor contracts.	Contractor	These situations are already in the contract.

Impact Description	Mitigation Measures	Responsibility	Cost
	➢ In order to minimize the socio-economic effects that may occur if the construction activities temporarily disrupt infrastructure services such as water, electricity and internet in a planned or unplanned manner, it is important to make a plan that avoided cuts as much as possible and to announce planned cuts to stakeholders.		
Labor and Working Conditions			
Impacts on Labor and Working Conditions	➢ Ensure compliance with Workers' accommodation: processes and standards for accommodation; including clean and safe areas that ensure the minimum space requirements, and ventilation that is appropriate for the existing climatic conditions, gender based accommodation facilities, etc.). Processes and standards for onsite facilities (canteen, sanitary facilities, adequate amenities for socialization and resting, etc.). ➢ Ensure drinking and utility water to be supplied ➢ Provide all accommodation sites with sufficient emergency response equipment such as first aid kits and fire-fighting equipment and conduct periodic checks to ensure they are in working condition. ➢ Provide trainings to personnel on general waste management, housekeeping, first aid practices and communicable diseases. ➢ Conduct visual checks on site to ensure proper housekeeping. ➢ Ensure proper first aid equipment is kept on site, at various related locations. ➢ Conduct periodic medical checks for personnel and provide vaccination and/or other mitigating measures when required.	Contractor	These situations are already in the contract.
Community Health and Safety			
Risk on traffic and pedestrian safety	➢ Investigate all construction areas and construction access routes for potential community interaction (with a particular attention to schools, children parks, etc.) with Project construction phase traffic. Based on results, develop and implement site specific	Contractor	

Impact Description	Mitigation Measures	Responsibility	Cost
due to construction traffic	measures (i.e. improve signage, visibility) and driver/operator trainings prior to initiation of any construction work. ➢ Implement access restriction at construction areas and access routes, by specifying restricted zones, (i.e. dangerous routes), fencing, barriers, etc. ➢ Install signs, signals, markings and other appropriate traffic regulation devices, including reflective and flashing signage for nighttime traffic safety, at all required sites. ➢ Where passage through existing settlements is unavoidable, take all necessary measures (i.e. speed limits, traffic signs, driver trainings) to prevent safety risks on local communities, engage with community representatives to plan the traffic by taking the daily life of the communities into account (i.e. selection of routes, school transportation hours, market days, etc.) and inform the communities about the construction schedule, activities to be conducted and safety measures taken, through appropriate means such as meetings and leaflets, notices, signs, etc. ➢ Allow only drivers/operators with valid licenses specific to each construction phase vehicle to drive/operate vehicles.		
Orientation of implementing agency and contractors	➢ The ESAI Consultant shall organize orientation sessions during all stages of the project. The orientation session shall involve staff of TSU and field level implementation staff of Contractor. The contractor needs to comply with the World Bank's Environmental, Health, and Safety Guidelines	ESIA Consultant	
Labor Management Procedure including measures to address GBV			
Risk of social conflicts due to religious, cultural or ethnic differences	➢ Use local labors in work force as much as possible. ➢ Orientation of migrant labors before mobilizing in project sites about the religious, cultural and ethnic characteristics of the project town and code of conduct to be followed in project. ➢ Provide all the basic facilities in the labour camps as well as at work sites to decrease chances of conflicts of workers with nearby villagers for use of resources. Arrangement	Contractor	These situations are already in the contract.

Impact Description	Mitigation Measures	Responsibility	Cost
	of recreation facilities at worker's camps such as radio, television, etc. for recreation of labors ➢ Periodical public consultations with locals to find out any issue between locals and project workers		
Increased risk of illicit behavior and crime	➢ Conduct screening of migrant and local labors before deployment at site, verify their previous records and police verification of labors before deployment at site. ➢ Orientation of labors about code of conduct. ➢ Strict action against labors who are found guilty of illicit behavior during works at sites.	Contractor	These situations are already in the contract.
Influx of additional population ("followers")	➢ Orientation of labors about code of conduct and strictly follow up: ➢ Provide all the basic facilities in worker's camp. ➢ Provide periodical leaves to migrant labors to visit their homes and meet their families so that they may not search sex workers for their sexual needs in nearby areas ➢ Prohibit any temporary shops and vending activities near the permanent project sites	Contractor	These situations are already in the contract.
Increased burden on and competition for public service provision	➢ Obtain permission and legal connections for water supply (commercial connection and/or tube well) and electricity, if possible dedicated power supply from transformer. ➢ Save energy as much as possible in daily needs to not having burden on local services ➢ Use super silent DG set of appropriate capacity for heavy electrical works such as plant operation in the project, if required. ➢ Do not use local public services such as public sewers, public drinking waterposts etc. provide septic tank with soak pits arrangements for worker's facilities incamps ➢ Do not use outside areas for defecation, orient workers in this regard	Contractor	These situations are already in the contract.
Increased risk of communicable diseases and burden on local health services	➢ Clean sanitary facilities of workers camp daily to ensure health and hygiene standards are met. Issue camp residents with soap and towels. ➢ Do not use outside areas for defecation, orient workers in this regard ➢ Health check-ups of all workers duringscreening specially for communicable diseases and sexually transmitted diseases. ➢ Periodical health check-ups of all workers by registered practitioner.	Contractor	These situations are already in the contract.

Impact Description	Mitigation Measures	Responsibility	Cost
	➢ Identify the worker infected with any communicable disease, quarantine and give proper medical ailment inrecognized hospital and after recovery give sufficient rest before joining his duties		
Child labor and school dropout	➢ Do not allow any child labour (below age of 14) at any worksite. ➢ Verify the age of adolescent labors through age proof documents. ➢ If there is any child (above six years age) with the worker family, engage the child in nearby education centre, encourage the workers to enroll their children in school.	Contractor	These situations are already in the contract.
Camp related land use,access roads, noise and lights	➢ Use only government land for establishment of construction and worker's camps ➢ Land for camps should be sufficiently away from habitations or buffer zone of any biological sensitive locations Sufficient basic facilities should be provided in camps. ➢ Access road to the camps should not pass through dense habitation or sensitive biological areas	Contractor	These situations are already in the contract.
Increased use of / demand for natural resources	➢ No fuelwood should be used for cookingin worker's camps, provide clean fuel suchas LPG, kerosene, induction or solar cooker for cooking food. ➢ No tree cutting for fuel wood, no fishing, no hunting, no bathing/ clothes cleaning in water canals should be allowed by workers. ➢ Orientation to workers should be given for preservation of natural resources and give clear instruction to workers that strict action should be taken who found guilty of such acts.	Contractor	These situations are already in the contract.
	In addition to that following code of conduct should be strictly followed by contractor and workers. Contractor and workers will receive a compulsory site induction on the first morning they arrive on the site, prior to commencing any works. ➢ All persons must report to work in a fit state. It is not only your safety risk, but it is a risk to those around you who could be affected by what you do.	Contractor	These situations are already in the contract.

Impact Description	Mitigation Measures	Responsibility	Cost
	➢ Any person reporting for duty under the influence (or suspected of being under the influence), or in the possession, of drugs and /or alcohol will be immediately asked to leave the site – no exceptions. No alcohol is allowed to be brought or consumed at site. ➢ Contractors must provide the appropriate PPE (Personal Protective Equipment) for all their employees. All tools and PPE must be in good condition, fit for purpose, and receive all the mandatory and statutory inspections, checks and calibrations, as and when required. ➢ No food or drink, with the exception of water, is to be taken and consumed anywhere throughout the site. All food and drink must be stored and consumed in the allocated canteen facilities if provided or in the designated rest shed inside the boundaries of the site. ➢ All project Sites are strictly NO SMOKING areas, unless there is a designated smoking area assigned by the Site Manager. ➢ All workers must practice basic hygiene, that is, - Hand washing before eating, drinking, smoking and before, as well as after, using the toilet - Proper food storage in the canteen/designated rest places - Careful disposal of food leftovers in the bin so as not to attract vermin which may carry disease. ➢ Mobile Phones – the use of mobile phones should be restricted to during break times and after shifts to minimize worker's distraction and maximize concentration. This ensures quality of work, productivity and promotes team work. Most importantly it will reduce the amount of accidents on sites, particularly falls, and minimizes damage to phones, which may be needed in an emergency situation. ➢ Personal Stereos are not permitted to be used on site. Radios may be used subject to permission being sought from the Site Manager ➢ Vehicles are not allowed to be parked on site, unless permission is granted by the Site Manager. ➢ Horseplay on site will not be tolerated and could lead to termination of contract and the incident being reported to the local Police authority and/or the Health & Safety Executive.		

Impact Description	Mitigation Measures	Responsibility	Cost
	➢ Cleanliness and Waste – All subcontractors and workers are responsible for maintaining a clean, tidy and safe working environment, free from unnecessary waste materials and packaging. Subcontractors and workers are responsible for cleaning their work areas and disposing of their waste appropriately at regular intervals during and on completion of their contract. Subcontractors are responsible for providing their own skips. ➢ It is expected from all suppliers, subcontractors and workers to treat and regard one another and general public around work areas respectfully, courteously and professionally at all times in order to achieve and maintain a positive working environment. ➢ While working in villages between local communities, no misbehavior, ill-treating, quarrelling, using abusive language should be done by any worker. ➢ All workers should respect the dignity of every woman present near to any worksite or work camp. Workers should use language that conveys respect for the dignity of women and other public and should not condone or engage in any form of harassment or exploitation. Worker should also recognize that the interests and welfare of children/young persons are paramount and therefore given precedence over other considerations. ➢ No worker shall involve in any type of sexual harassment with women and children. Sexual harassment may include unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature if that behavior negatively affects or interferes with an individual's dignity. Do not send sexually explicit, offensive, demeaning, insulting or intimidating e-communications, ethnic or racial slurs, or anything that harasses or disparages others. Be careful when using sarcasm and humor. Your "joke" could be misunderstood or can hurt others		

Impact Description	Mitigation Measures	Responsibility	Cost
Impacts on gender equality and children			
Impacts on gender equality and children	➢ Continue to promote communication to raise awareness about gender equality and HIV / AIDS to all levels of people and women themselves. Develop and implement communication activities, models of gender equality in accordance with the subproject area. At the construction site area, there should be propaganda materials on gender, HIV / AIDS. ➢ Manage labor flow, especially women. Coordinate with the locality to have good management measures. To promote the responsibility of the local government, the contractor is to promote the role of the heads of agencies, localities, supervision consultants and site leaders in implementing gender equality objectives; arrange and assign work to women. ➢ In the process of construction, it is necessary to take measures to prevent prostitution, sexual assault on women and children. ➢ Construction site should have signs and lights at night to ensure that women and children are not affected when passing through the construction site at night. ➢ Children are strictly prohibited from entering the construction site ➢ Orientation of labors about code of conduct and strictly follow up. ➢ Educate labors about various privileges given to women through various acts and other laws/acts which protect women from violence and harassment. ➢ Engage local NGOs working in such fields to educate labors on gender based issues including gender based violence. ➢ Take strict action who is found guilty ofany type of gender based violence	Contractor/ VDA/SPCU	

8.4 EMP BUDGET FOR THE IMPLEMENTATION OF SAFEGUARD MITIGATION MEASURES

The budget for the implementation of various mitigation measures is an important aspect of the safeguard management activities of the project. The cost also includes the cost of supervision, monitoring, training and capacity building activities etc. Most of the mitigation measures require the contractors to adopt good site practices, which should be a part of their normal procedures already, so there are unlikely to be major cost associated with compliance. The cost which are specific to EMP implementation and are not covered elsewhere in the projects are given in below Table 51.

TABLE 51: ESTIMATED BUDGET FOR EMP IMPLEMENTATION

Activity	Quantity	Unit	Rate (Rs.)	Cost (Rs.)	Remarks
Sprinkling water for suppression of dust At all construction and rehabilitation points every 2hr interval during construction. Rate include labour cost, transportation, materials, equipment and workers required	360	KL	500	1,80,000	5 tanks of 1KL capacity per week x 18 months construction
Relocation/ Plantation of tress, protection measures, watering. Tree cutting and compensatory plantation measures	LS			2,00,000	
Removing the topsoil and preserving it at suitable location and reapply after work	LS			2,00,000	
Safety barricading the construction sites	LS			3,00,000	
Separate storage areas with three side cover (2m high) for course and fine aggregates. Base protected with high thickness plastic sheets. Loose coarse and fine aggregates covered with high thickness plastic sheets.	2	No	1,00,000	2,00,000	Market rate includes labour cost, transportation, materials, equipments and workers required
Provision of Sanitation Facilities in Labour Camps					2 labour camp proposed

Activity	Quantity	Unit	Rate (Rs.)	Cost (Rs.)	Remarks
• Water Supply	360	KL	500	1,80,000	5 tanks of 1KL capacity per week x 18 months construction
• Solid waste management	10	No	1500	15,000	Bins of 100 Litres capacity at 10 points 1 bin each has to be provided in each work site
• Mobile toilet with anaerobic treatment facility	36	each	10,000	3,60,000	2 labour camp proposed
Noise control measures	100	Sheets	3000	3,00,000	Acoustic barriers or sheets
Provision of Personal Protective Equipment					
25 Sets of PPE	25	No	4,000	1,00,000	
6 Sets of First Aid kits for 25 people each	6	No	10,000	60,000	Includes First Aid box at each work sites
Safety signage for construction sites, diversion and other					
▪ Small 3x 2	20	each	5,000	1,00,000	
▪ Medium 5x 3	10	each	8,000	80,000	
▪ Large 7x 4	4	each	15,000	60,000	
Environmental Monitoring	As per Table above			5,13,000	
Training & Capacity Building - Training in EMP	LS	-	-	4,00,000	
Estimated Total Amount				**32,48,000**	

8.5 ENVIRONMENTAL MONITORING PLAN

The purpose of the monitoring program is to ensure that the intended environmental measures are achieved and result in desired benefits to the target population. The environmental monitoring program and cost of this sub project is estimated based on the length of implementation (18 months) and existing environmental scenario of the proposed project.

The proposed site environmental monitoring for ambient air and ambient noise are provided Table 52.

TABLE 52: ENVIRONMENTAL MONITORING ESTIMATED COST

Attribute	Location and frequency	Quantity	Unit Rate (INR)	Total Cost (INR)
Ambient and Indoor Air Monitoring (PM10, PM2.5, SO2, NO2, CO)	6 locations once prior to start of construction 6 locations every quarter except monsoon season until the end of construction period	36	6,000	2,16,000
	6 locations once after activity completion	6	6,000	36,000
Ground water Quality Monitoring as per (IS 10500: 2012)	3 locations once prior to start of construction 3 location during construction Half yearly/ biannual	12	4,500	54,000
	3 locations Once after construction	3	4,500	13,500
Surface Water Quality Monitoring (Parameters as per IS 2296 & IS 10500;2012)	3 locations before start of construction 3 location during construction Half yearly/ biannual	12	4,500	54,000
	3 locations once after construction	3	4,500	13,500
Noise Monitoring, dB(A) Leq, day time and night time	6 locations once prior to start of construction 6 locations every month until the end of construction period	114	1,000	1,14,000
	Twice in 6 locations after activity completion	12	1,000	12,000
Total				**5,13,000**

8.6 REPORTING REQUIREMENT

Monthly compliance report of the above environmental management plan and monitoring plan shall be submitted by the contractor to VDA/TSU. On the basis of monthly compliance report from contractor and supervision on site, VDA/TSU will prepare quarterly progress report and submit to SPCU. SPCU will prepare based on the quarterly report from VDA/TSU and the findings of its inspections Semi-annual Reports for onward transmission to DoT and WB.

8.7 INSTITUTIONAL ARRANGEMENTS FOR SAFEGUARD MONITORING

The State Project Coordination Unit (SPCU) in Lucknow, located in the Department of Tourism, will be responsible for addressing Environmental and Social safeguard measures. The SPCU will be supported by competitively selected technical specialists

(Technical Support Units – TSUs) based in selected project target areas, in principle in Sarnath. The TSU will support the Varanasi Development Authority, the project implementing entity, in the day-to-day execution of respective subprojects. The DoT having a Social Development Specialist, Environmental Specialist for the SPCU to coordinate, review, support and monitors all respective safeguards aspects of the project. The specialists will also train and strengthen the capacities of specialists in the TSU and in the implementing entities. The Directorate of Tourism, Government of Uttar Pradesh, has been engaged Shah Technical Consultants Private Limited, Mumbai for Consulting Services for Preparation of Environmental & Social Safeguards Documents and Monitoring of Compliances of ESMP.

8.8 FRAMEWORK FOR MONITORING & EVALUATION

The SPCU through TSU and Consultant[6] will be responsible for carrying out monitoring and evaluation. Internal monitoring will be carried out by the VDA with assistance from Social Specialist and Environment Specialist of SPCU/ESIA Consultant and local representatives. This will help monitor project activities closely. Regular monitoring by undertaking site visits will help identify potential difficulties and problems faced in the project implementation and subsequently help take timely corrective measures including deviations, if needed. Monitoring will start as soon as the project implementation begins. Components of monitoring will include performance monitoring i.e., physical progress of the work and impact monitoring and external evaluation. Framework of monitoring is summarized in Table 53.

TABLE 53: FRAMEWORK OF MONITORING

Type	Indicators	Issues	Procedure	Timing	Responsibility
Process Level Monitoring	Project /ESMP Implementation	Employment of local labor including women	Site observation, attendance record, Interaction with	Monthly	VDA/NGO/ ESIA Consultant
		Campsite management including lodging an arrangement and campsite facilities	Site observation, interaction with laborers, contractors	Monthly	VDA/NGO/ ESIA Consultant
		EMP Implementation	As prescribed in the ESA Report	All times during construction	Contractor/ SPCU/ VDA/ ESIA Consultant

[6] The Directorate of Tourism, Government of Uttar Pradesh, has been engaged Shah Technical Consultants Private Limited, Mumbai for Consulting Services for Preparation of Environmental & Social Safeguards Documents and Monitoring of Compliances of ESMP

Type	Indicators	Issues	Procedure	Timing	Responsibility
		Use of health and safety measures	Site observation, interaction with laborers, contractors	Quarterly	VDA/ SPCU / Local Representatives/ NGO/ ESIA Consultant
		Temporary leasing of land and house, if any	Site observation, contractors, check contract agreement	Monthly	VDA/Local Representatives/ NGO/ ESIA Consultant
		Discrimination of wage rate between male and female workers	Interaction with laborers, labor survey, record of wage payment	Monthly	VDA/ SPCU/ ESIA Consultant
		Incidence of communicable diseases	Discuss with local people, health workers/health post/center records	Annually	VDA/SPCU /NGO/ ESIA Consultant
Impact Level Monitoring	Social Safety	State of social harmony and social security	Police records ,consultation with stakeholders	Annually	VDA/SPCU / ESIA Consultant

- NGO hiring is under progress.

8.9 CONTRACTOR'S ENVIRONMENTAL DUTIES

Immediately after mobilization and prior to commencement of the works, the contractor should designate a qualified person as EHS Officer who will be responsible for the implementation of ESMP. During construction, the contractor should submit monthly ESMP implementation reports reflecting the internal monitoring conducted through its EHS Officer to TSU. Based on the monthly report from the contractor and the internal monitoring done by the TSU/Consultant, a quarterly report will be prepared by TSU/Consultant and submit to SPCU. The monitoring will also provide feedback on community concerns, grievances and requests. Monitoring will focus on and ensure the following:

- Verification that there are no outstanding or unresolved issues with respect to the project;
- Information campaign, discrimination and consultation with affected people;

- Effective operation of the Grievance Redress Committees detailing out number of complaints received and those resolved; reasons for not being able to resolve the grievance and status of unresolved grievances.

Firstly, the Contractor must comply to mitigate potential impacts of construction activities of the Subproject. Secondly, the Contractor must apply the mitigation measures within the framework of the environment and Social Management Plan to prevent damage and disturbance for local communities and the environment due to impacts during the construction and operation phases.

The Contractor is required to submit for approval and then implement the Contractor's Environmental Management and Social Management Plan in accordance with the Specific Conditions of Contract Clause including the Management Strategies and Plan Implementation.

The remedial actions that cannot be carried out during the construction process must be carried out at the completion of the construction (and before the acceptance of the completion of a work). The tasks of the Contractor include, but are not limited to:

- The compliance with the legal requirements relating to the environment, safety and public health.
- Working within the scope of contract requirements and other bidding conditions.
- Coordinating with the ESIA consultant for conducting periodic environmental monitoring according to the ESIA.
- Coordinating with the SPCU/ESIA Consultant to conduct training and dissemination of social and environmental safety policies for officials and workers on site.
- Carrying out any corrective actions as directed by the VDA/TSU/ESIA consultant
- If there is a case of non-compliance or falsification, the investigation and submission of options on mitigating measures should be carried out and measures are taken to minimize environment impacts.
- Stopping obstructing construction activities when receiving instructions from the VDA/TSU/SPCU/ESIA consultant. If the Contractor fails to comply with the above requirements, the Contractor will be suspended from work or receive penalties until the matter is resolved.

8.9.1 THE CONTRACTOR'S SAFETY, SOCIAL AND ENVIRONMENTAL OFFICERS

The Contractor is required appointing competent staff, including the Safety, Social and Environmental Officers (SSEOs). The SSEOs must be adequately trained in

environmental management and provided with necessary skills to transfer environmental management knowledge to all staff involved into the contract. The SSEOs will be responsible for monitoring the Contractor's compliance with the ESMP requirements and the environmental requirements. The assignments of the SSEOs will include but is not limited to the following:

- Organizing the inspection of the environment current state to assess and inspect the status of the Contractor's construction site, Contractor's equipment and construction methods related to pollution control and mitigation measures to environmental impacts, which is fully realized or not;
- Monitoring the compliance with environmental protection measures, pollution prevention and control measures and contract requirements;
- Assisting the functional units to periodically monitor the environment according to the ESIA content;
- Monitoring the implementation of environmental mitigation measures;
- Preparing audit reports on environmental conditions at site;
- Investigating complaints and proposing corrective measures;
- Advising the Contractor on environmental improvement, awareness and measures toprevent immediate pollution;
- Maintaining detailed records of all site activities related to the environment.

Construction work can be particularly hazardous. Personal protective equipment, fire safety, electrical safety, confined space entry, emergency preparedness, biological safety, chemical safety, hazardous waste disposal, vehicle safety and other precautions are essential for safe construction work. In this context, draft guideline prepared to ensure the quality standards for effective management of environment, Health and Safety issues in the implementation of world bank supported Pro-Poor Tourism project.

These guidelines are not intended to be a step-by-step procedure for each activity. It is a guideline document that outlines general activities, procedures, and requirements for the project throughout the construction phase of the sub projects. These procedures must always be read and implemented in conjunction with the related Contract Conditions. The construction works shall be undertaken in accordance with Environmental, Health and Safety guidelines under the World Bank supported subproject. (Draft **Guidelines for the Management of Environmental, Health and Safety in the Project construction sites is attached in Annexure 6**)

(A) Prevention for COVID-19

The contractor to put in place measures to avoid or minimize the spread of the transmission of COVID-19 and/or any communicable diseases that may be associated with the influx of temporary or permanent contract-related labor.

Any suspect case of COVID19 should be tested as per the national/state guidelines issued by the Health and Family Welfare Ministry/Departments and precautions/protocol to be followed for the infected worker and his/her co-workers.

General Obligations of the Contractor

- To take all necessary precautions to maintain the health and safety of the Contractor's Personnel.
- To depute a health and safety officer at site, who will have the authority to issue directives for the purpose of maintaining the health and safety of all personnel authorized to enter and or work on the site and to take protective measures to prevent accidents, including spread of COVID19.
- To ensure, in collaboration with local health authorities, access to medical help, first aid and ambulance services are available for workers/labors, as and when needed.

Labor

- Provide health and safety training/orientation on COVID19 to all workers and staff and other employees of the sub-contractor (tips on cough etiquette, hand hygiene and social distancing).
- Prepare a detailed profile of the project work force, key work activities, schedule for carrying out such activities, different durations of contract and rotations, confirmed addresses of the labor and any underlying health conditions that increases the risk of severe infection, to facilitate tracking of workers in case of COVID-19 exposure.
- In relation to COVID19, masks, adequate hand washing/ sanitization, clean drinking water and sanitation facilities to be provided at construction site.
- Paid leave to be mandatorily given if labor contacts COVID-19 and/or any other contagious disease while working at the construction site or in the labor camp.
- Segregate lunch hours at worksite of workers to maintain social distancing.
- Place posters and signages at/around the site, with images and text in local languages relating to personal safety, hygiene and on COVID-19 symptoms and guidelines.
- Securing the construction site with entry only for authorized personnel and disinfecting of the worksite to be undertaken at close of work every day or as may be required.

8.10 GRIEVANCE REDRESSAL MECHANISM:

A Grievance Redress Cell (GRC) will be set up at the state level and at subproject level where investments have been or will be planned. The staffing of GRC will include representatives from implementing entities; subproject-level environmental and social officer; and two representatives from the community/affected persons. The head of the cell will be a person of repute but not continuing in the government service. The GRC will have its own bylaws. The functions of the GRC will include: (i) to redress

grievances of community/beneficiaries/project affected persons (PAPs) in all respects; (ii) rehabilitation and resettlement assistance and related activities; (iii) GRC will only deal with the issues related to resettlement and rehabilitation and individual grievances; (iv) GRC will give its decision/verdict within 15 days after hearing the aggrieved person; (v) final verdict of the GRC will be given by the Chairman/Head of GRC in consultation with other members of the GRC and will be binding to all other members.

GRM aims to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. All grievances – major or minor, will be registered. Documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken. TSU will also be responsible for follow-through for each grievance, periodic information dissemination to complainants on the status of their grievance and recording their feedback (satisfaction/dissatisfaction and suggestions).

Records of all grievances received, including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date these were effected and final outcome will be kept by TSU and submitted to SPCU. The SPCU will periodically review the functioning of the GRM and record information on the effectiveness of the mechanism, especially on the TSU's ability to prevent and address grievances.

An aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.

State and district level grievance redress committee's (GRC) will be take place for the projects. This clearly defines the process and roles and is annexed as **Annexure-7** The cell will be activated by putting grievance box at each site, displaying relevant phone numbers as per the order.

8.11 INFORMATION DISCLOSURE

The summary of ESMP will be translated into local language and will be shared with the affected community. The English and translated version of ESMP will be disclosed on the website of Department of Tourism. Hard copies in English and Hindi will be placed at following offices:

- Varanasi Development Authority;
- Office of District Magistrate, Varanasi;

Public information campaigns to explain the project details to a wider population will be conducted. Public disclosure meetings will be conducted at key project stages to inform the public of progress and future plans. Project signboard will be displayed at the construction sites (details of the project) will be displayed for the information of general public. Local communities will be continuously consulted regarding location of construction camps, access and hauling routes and other likely disturbances during construction as required.

8.12 CAPACITY BUILDING AND TECHNICAL SUPPORT

The capacity building at the local level for ESMP implementation agency as well as for the monitoring and redressal committee would be done through the tourism department. In addition to the above, DoT program will continue to mainstream the environmental, cultural and social issues within the training programs of State Project Coordination unit and the implementing entities. The program will be structured in such a way that it clearly brings out the value addition and enhancement benefits of proper management of environmental and social issues. Proposed capacity building plan is given in Table No. 54.

TABLE 54: CAPACITY BUILDING PLAN

MODULES	CONTENT	DURATION
Environment and Social Management Framework (ESMF)	▪ Project Concept ▪ ESMF Concept ▪ Regulatory Requirements ▪ E and S Priority Issues ▪ Subproject types ▪ ESIA ▪ ESMP ▪ Process Outline ▪ Public consultation ▪ Monitoring and Reporting	Half a day. To be repeated every alternative year
Environmental Assessment Process	▪ Social Assessment process ▪ Description of project; RPF, gender frameworks; and National regulatory frameworks ▪ LA process ▪ Necessity for RAP/ ARAP, Gender plan and its preparation process ▪ Implementation and Monitoring ▪ Institutional Mechanism ▪ Grievance Mechanism	Half a day class room training. Half a day field training
Social Assessment Process	▪ Social Assessment process ▪ Need for conducting socio-economic survey	Half a day class room training. Half a day field training.

	▪ Description of project; RPF, gender frameworks; and National regulatory frameworks ▪ LA process ▪ Necessity for RAP/ ARAP, Gender plan and its preparation process ▪ Implementation and Monitoring ▪ Institutional Mechanism ▪ Grievance Mechanism	
Cultural Properties Assessment Process	Cultural Properties Assessment process • Description of project and national regulatory frameworks • Necessity for PCRMP and its preparation process • Implementation and Monitoring • Institutional Mechanism	Half a day class room training. Half a day field training

CHAPTER 9: SUMMARY AND CONCLUSION

The UP Government envisioned Uttar Pradesh Pro Poor Tourism Development Project with the financial support of World Bank is one of the stepping stone in restructuring its tourism sector in a pro-poor manner with a view to increasing benefits to local communities and improving the management of its tourism destinations. Renovation/upgradation of infrastructure facilities at Sarnath is one of the identified follow on sub project proposed under UP Pro-Poor Tourism Development Project. Preliminary Project Report for proposed sub project has been prepared and approved by the Department of UP Tourism Therefore, scope of this report is limited to assess environmental and social impacts of the components proposed under the said project and to determine the specific measures to reduce, mitigate and/or offset potential adverse impacts during pre-construction, construction and operation phases of the project. Project screening was carried out as per the screening criteria described in the Environment and Social Management Framework of UP pro-poor tourism development project that conclude that proposed sub project falls in 'category – B' with minimal impact and have overall positive benefits on the life and environment of the people. There has been no reported land acquisition. Temporary disruptions may result in loss of income during construction period for a few days to road side vendors ((286/341) at Dharampala Road, Rishipattan Road, Station Road. Works will be executed in phase wise/section wise and livelihood impacts of vendors will be minimized through the shifting of street vendors across the lane (on the other side of road). Under this subproject, vending zones will be set up at specific zones where all the vendors will be accommodated. For loss of temporary livelihood during execution, compensation provision has been kept in the RAP. Advance notice will be provided to the families living in a kiosk near Suheldev circle to vacate the areas and assistance will be provided as per agreed entitlement matrix. Impact on livelihood on permanent shops in last mile areas will be mitigated through night works/ executed in small stretches, section by section. Civil work will be completed in one section before commencing work on the next section.

As per environmental and social management framework guidelines of Uttar Pradesh Pro Poor Tourism Development Project; Environment and Social impact assessment was conducted for addressing possible issues/ concerns arising from proposed project. Impacts of activities identified during the assessment under categories of Construction and Operation phase. Although no such permanently negative or adverse environmental or social impacts were identified, there were certain temporary impacts, for which appropriate mitigation plans have also been suggested. The environmental and social management plan ensures to suggest appropriate mitigation measure against the issues/ concerns identified during the environmental and social analysis study. All the social and environmental issues were appropriately studied and have been substantiated using appropriate evidences, to ascertain the magnitude of their impacts. Even the issues of public grievances and public notice have been taken

care in the report to confirm transparency during the project implementation. Report also ensures that well defined institutional mechanism is in place to monitor and evaluate the progress of the project during construction, implementation and operation phases.

ANNEXURE 1: SCREENING CHECKLIST

Subproject Title:	**Renovation and Modernization of the existing Infrastructure of the Sarnath Heritage Zone (SHZ)**
Subproject location (area/district/site):	Sarnath, District- Varanasi
Subproject Scope of Work:	➢ **Promenade Development (Dharmapala Road),** including roads and sidewalks improvement, provision of street furniture and lighting, signage and interpretation of the sites, provision of basic services, provision of parking and traffic calming infrastructure, basic services for tourism (water fountains, etc.), greening and landscaping and support to street vendors. ➢ **Last Mile Connectivity,** including roads and sidewalks improvement, basic services provision and street lighting. ➢ **Crossings and Gates**, including pavements, crossings and junction improvement, gates enhancement, signage, street lighting and furniture as required, provision of parking and traffic flows support, greening and landscaping. ➢ **Parking and Traffic calming infrastructure**, including access and parking development, street lighting and furniture as required, services for visitors and street vendors, CCTV & Wi-Fi access points, greening and landscaping ➢ **Tourist Information/Interpretation Centre**, including building upgrading, services provision as required, greening and landscaping and signage. ➢ **Street Markets and Vendors**, including rehabilitation of structures and provision of improved carts and alike to street vendors, CCTV & Wi-Fi access points, street lighting and furniture as required, greening and landscaping, provision of basic services and facilities, support to street vendors for improving their products, business skills and income, declaration of street vending zones.
Date of Screening:	10th September 2021 to 25th September 2021
Implementing Agency:	Varanasi Development Authority (VDA)
Responsible Agency:	Department of Tourism

GENERAL INFORMATION

Sr. No.	**Basic Information**	**Yes**	**No**	**Explanation**
1.	Does sub-project area fall under Rural Area		√	
2.	Does sub-project area fall under Urban Area	√		
3.	Subproject area falls in City (provide Name and total population)	√		City Name: Varanasi Population: 36,76,841 (Census 2011)

Sr. No.	Basic Information	Yes	No	Explanation
4.	Subproject area falls in Town (provide Name and total population)		√	
5.	Subproject area falls in village (provide Name and total population)		√	
6.	Ward numbers falling under subproject area (provide names)	√		Ward No. 33
7.	Panchayats falling under subproject area (provide name)		√	
8.	Existing Public Utilities			
	a) Sewerage & STP		√	Sewerage network proposed, STP available at Goithaha near Varanasi Ring Road about 2.55km from Buddha Theme Park in North West direction.
	b) Toilets		√	
	c) Street Lights	√		
	d) Underground Cabling		√	Underground cabling proposed
	e) Water Supply	√		Clean drinking water supplied by the authorities to the consumers and one WTP is working at Sarnath.
	f) Any Other			Drainage proposed
9.	Whether Proposed components covered under any other Govt. Scheme		√	
10.	Creative Industries Units (if yes, provide number & details)	√		
11.	Availability of local institutions/ SHGs/ NGOs etc.	√		Human Welfare Foundation

Environment, Heritage & Social Screening

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	ENVIRONMENT			
1	Is the subproject in or adjoining an environmentally sensitive area or monument? (If Yes, write distance).			The site is located near four ASI protected monument. No eco-sensitive area is located as notified by MoEF&CC in the area or its immediate vicinity. Major part of the proposed (promenade development) Dharampala Road lies within ASI protected area, some part lies in 100m and 200m prohibited and regulated area of ASI excavated remains. Parking at MRC is located within 100m prohibited area of ASI excavated remains & Museum. Parking at Buddha Theme Park lies within 100m and some part lies within 200m prohibited and regulated area of ASI excavated remains as per ASI map of excavated remains. Proposed parking at Buddha Theme is located of Deer park about 120m distance in south direction of subproject site. Turtle rehabilitation and breeding centre is located in Khajuhi. Parking in-front of Chaukhandi Stupa lies within 100m and 200m prohibited and regulated area of ASI protected monument *i.e.* Chaukhandi Stupa. A detailed EMP would require to check and mitigate for all possible impacts.
	a) Religious and historical places	√		29 religious places and monasteries

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	b) Protected Monuments (ASI, State, Local), pl. specify	√		The site is located in and around four ASI protected monuments Dhamekh Stupa, Sarnath Museum, Arche. Remains, Chaukhandi Stupa: Major part of the proposed (promenade development) Dharampala Road lies within ASI protected area, some part lies in 100m and 200m prohibited and regulated area of ASI excavated remains. Parking at MRC is located within 100m prohibited area of ASI excavated remains & Museum. Parking at Buddha Theme Park lies within 100m and some part lies within 200m prohibited and regulated area of ASI excavated remains as per ASI map of excavated remains. Proposed parking at Buddha Theme is located of Deer park about 120m distance in south direction of subproject site. Parking in-front of Chaukhandi Stupa lies within 100m and 200m prohibited and regulated area of ASI protected monument *i.e.* Chaukhandi Stupa.
	c) Hills /mountains(if any, pl specify)		√	
	d) Biosphere reserves		√	
	e) National park and wildlife sanctuaries		√	
	f) Natural lakes/ swamps/Kunds	√		Natural water bodies such as pond is located in Deer park and situated behind the Archeological excavated remains falls within protected area and some part falls within 100m prohibited area of ASI. Sarangnath Kund: Located about 410m in South East direction of Sarnath Chauraha.
	g) Tribal Settlements		√	

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	h) Areas of scientific and geological interests		√	
	i) Airport		√	24km at LBS International airport
	j) Habitat for migratory birds		√	
	k) Lakes, Pond, barrages	√		Pond is located approx. 350m distance in East direction of Sarnath Chauraha.
	l) Streams/rivers	√		River Ganga: About 6.5km in south east direction from sub-project location. Varuna River : Approx. 4.7 km in South East direction from sub-project area
	m) Railway lines	√		Approx. 600 mt. in eastern direction from Ashoka Road about 1.0 km in eastern direction from Rishipattan road.
	n) Highways/ Expressways	√		Varanasi – Azamgarh highway in North direction of approx. 700m distance from Buddha Theme Park. NH-29 is passes about 1.2 km in South direction of Suheldev Circle/ Rishipattan Road. SH-28 is passes about 2.8 km distance in West direction of Museum Tiraha.
	o) Urban agglomeration	√		Proposed site is in commercialarea
2.	Is tree cutting involved in selected sub-project area (if yes, provide Nos. & details)		√	Indigenous trees are available allalong the road on the edge as well on existing pathway. Special attention would require while planning and execution.
3.	Land Use of the selected subprojectarea			
	a) Residential		√	
	b) Commercial	√		
	c) Forest Land		√	
	d) Agriculture Land		√	
	e) Barren Land		√	
	f) Pasture Land		√	
	g) Sewage farm		√	
	h) Any Other	√		Government land
4.	Is subproject area under flooding		√	

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	a) Area under river flood zone		√	
	b) Flooding in approach road duringMonsoon Season		√	
	c) Probability of flooding due to proposed activities		√	
5.	Damage to existing infrastructure, public utilities, amenities			
	a) Any Building (if yes, provide Nos. & details)		√	
	b) Electric Poles (if yes, provide Nos. & details)	√		Underground cabling and street lighting is proposed
	Underground Utilities (water supply, sewerage system etc.)	√		Some damage is expected to nearby existing infrastructure like stairs, ramp or undergroundutility etc.
6..	Disruption of traffic and visitor movements			
	Directly affected due to proposed activities work		√	
	b) Disruption due to construction material transportation	√		Some inconvenience to the local community/vendors and tourist is expected during construction period.
7.	Are there any local conflicts/ Issues (ifyes, provide specific details)		√	
8.	Will the subproject create environmental impacts during the construction stage?			Repair works during the failure of cabling work may involve temporary earth work and disturbance to the community/ visitors.
	Significant Impact		√	
	Limited Impact	√		While construction activities, limited impact on Air, Water and noise quality envisaged within subproject area only. However, all necessary measures will be ensured by implementing agency to avoid any such situation.
	No impact		√	
9.	Does the subproject involve any prior environmental clearance, which?			

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	a) From the MOEFCC or State Forest Department for either the conversion of forest land or for tree- cutting?		√	
	b) From Supreme Court (SC) forTree cutting		√	
	c) From National Green Tribunal(NGT)		√	
	d) From Pollution Control Board	√		
	e) From Irrigation Department		√	
	f) From Nagar Nigam	√		
	g) From Panchayat/ LocalCommunity	√		NOC from Mahabodhi Society would be required prior to commencement of works.
	h) Any Other (Specify)	√		NOC from Jal kal/ Jal Nigam, PWD, Purnachal Vidyut vitran Nigam and PWD would also require
CULTURAL HERITAGE				
11.	Is subproject area located within or in the vicinity of a recognized cultural property conservation area, monument or heritage site?	√		Proposed promenade development at Dharampala Road lies within protected area of ASI excavated remains. Some part of proposed parking and gates near Museum tiraha falls within protected area of ASI excavated remains.
	a) Within 100m of cultural properties/ monuments (if yes, provide details)	√		Some part of promenade development (Dharampala Road) is within 100 mt. prohibited zone of ASI protected monuments (Dhamekh stupa, Archeological remains @ Sarnath museum). In fact, small stretch is within the protected area of ASI (As per Map of ASI). Proposed Parking and TIC at Rishipattan road comes under 100m & 200m prohibited and regulated area of Chaukhandi Stupa of ASI. Proposed parking at Buddha Theme falls within 100m prohibited area of ASI excavated remains. Parking, crossing and gates within 100m and 200m prohibited and regulated area of ASI excavated remains.

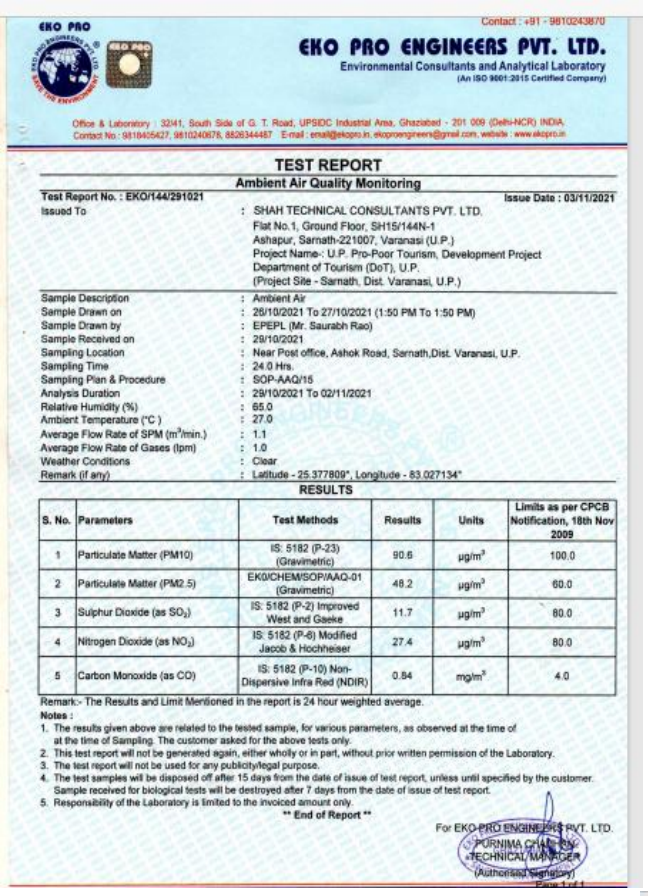
Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
	b) Within 300 m of cultural properties /monuments (if yes, provide details)	√		ASI protected monument Dhamekh Stupa Sarnath Museum Arche. Remains Chaukhandi Stupa
	c) Any other significant monument/ heritage site nearby (pl provide details/ distance)		√	
	d) Other, specify		√	
12.	Does the subproject require any priorclearance? (If yes, which)			
	a) From the ASI/NMA	√		NOC from National Monuments Authority/ ASI would require for proposed subprojects in Sarnath. Proposed subproject works lies in between Chaukhandi Stupa and Excavated Remains of ASI. Major part of Dharampala Road comes under the protected area, some part of 100m and 200m regulated area of Excavated remain/ Dhamekh Stupa. Proposed Parking and TIC at Rishipattan Road infront of Chaukhandi Stupa required prior clearance from NMA/ASI as the proposed subproject falls within 100m and 200m prohibited and regulated area of ASI Chaukhandi Stupa. Proposed parking at Buddha Theme falls within 100m and 200m prohibited and regulated aera of ASI protected excavated remains. This would also require prior clearance/NOC from NMA/ASI.
	b) From State Archaeology Department		√	
	c) From local level		√	
13.	Will the subproject create impacts on cultural properties and/or landscapes during Construction?			There will be temporary limited impacts while promenade development, paving, construction of drainage, sewerage network, underground laying of cable, crossing and gates, parking, TIC etc.

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
				Proposed intervention such as landscaping works will improve aesthetics and ecology of the area and this will enhance local biodiversity of the area.
	a) Significant Impact		√	
	b) Limited Impact	√		While construction activities, limited impact on Air, Water and noise quality envisaged within subproject area only. However, all necessary measures will be ensured by implementing agency to avoid such situation. Proposed intervention may increase tourist inflow, will provide better tourism Infrastructure and increased tourism related benefits for local communities in targeted destinations.
	c) No Impact		√	
SOCIAL				
14.	Land Availability			
	Land Acquisition Status (Ownershipof Land) -		√	No private land acquisition envisaged under the proposed sub-projects. All the proposed works will be undertaken in Government land.
	Government land (Area (sq.m.) of land/Name the Department)	√		
	Private Land (Area (sqm) of land/Name of Owner)		√	
	Public Land (Area (sqm) of land/Name of Owner)		√	
15.	Involuntary land taking resulting in			Not applicable as land acquisition is not involved.
	Loss of income/ livelihood(No of PAPs)	√		Temporarily loss of livelihood may be envisaged to roadside vendors during construction. Under this subproject, vending zones will be constructed where all the vendors will be accommodated. Even though under this subproject appropriate support to the vendors by

Sr. No.	Screening Criteria	Assessment of Category		Explanation
		Yes	No	
				way of subsistence allowances will be provided for loss of temporarily livelihood. Resettlement action plan will be framed after wider consultations with the stakeholders.
	b) Loss of common property resources		√	
	c) Loss of commercial property (Number/Name of property)		√	
	d) Loss of residential property Number of residents)		√	
	e) Land acquisition resulting in relocation of households.		√	
	f) Other, specify		√	
16.	Is there any adverse impacts to women, including economic and safety concerns		√	There will be substantial positive impacts on economic livelihood and income generation opportunities for women and to provide safe & comfortable working environment including children.
17.	Will the subproject create social impacts during the construction stage?			
	Significant Impact		√	
	Limited Impact	√		Substantial positive impacts on economic livelihood and income generation opportunities. Local job creation while construction works. Proposed intervention may increase tourist inflow, will provide better tourism Infrastructure and increased tourism related benefits for local communities in targeted destinations.

ANNEXURE 2: ENVIRONMENTAL MONITORING REPORT FOR VARIOUS LOCATIONS AT SARNATH

Ambient Air



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240878, 8826344487 E-mail : email@ekopro.in, ekoprongineers@gmail.com, website : www.ekopro.in

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/144/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name-: U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 26/10/2021 To 27/10/2021 (1:50 PM To 1:50 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Near Post office, Ashok Road, Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Analysis Duration	: 29/10/2021 To 02/11/2021
Relative Humidity (%)	: 65.0
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.377809°, Longitude - 83.027134°

RESULTS

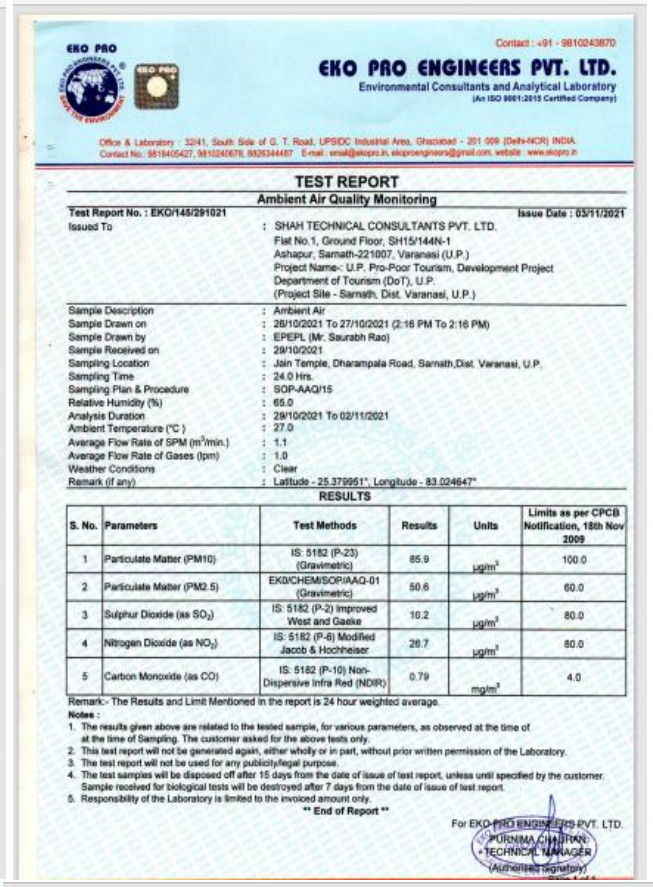
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	90.6	µg/m³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	48.2	µg/m³	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	11.7	µg/m³	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	27.4	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.84	mg/m³	4.0

Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

Notes :
1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240878, 8826344487 E-mail : email@ekopro.in, ekoprongineers@gmail.com, website : www.ekopro.in

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/145/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name-: U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 26/10/2021 To 27/10/2021 (2:16 PM To 2:16 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Jain Temple, Dharampala Road, Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Relative Humidity (%)	: 65.0
Analysis Duration	: 29/10/2021 To 02/11/2021
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.379951°, Longitude - 83.024647°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	85.9	µg/m³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	50.6	µg/m³	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	10.2	µg/m³	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	26.7	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.79	mg/m³	4.0

Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

Notes :
1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240878, 8826344487 E-mail : email@ekopro.in, ekoprongineers@gmail.com, website : www.ekopro.in

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/146/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name-: U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 26/10/2021 To 27/10/2021 (3:47 PM To 3:47 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Station, Road, Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Relative Humidity (%)	: 65.0
Analysis Duration	: 29/10/2021 To 02/11/2021
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.376983°, Longitude - 83.031550°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	94.1	µg/m³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	49.7	µg/m³	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	11.2	µg/m³	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	28.1	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.92	mg/m³	4.0

Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

Notes :
1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
Contact : +91 - 9810243870

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/147/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name-: U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 27/10/2021 To 28/10/2021 (4:19 PM To 4:19 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Buddha Theme Park, Khajuhi Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Relative Humidity (%)	: 65.0
Analysis Duration	: 29/10/2021 To 02/11/2021
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.382221°, Longitude - 83.022207°

RESULTS

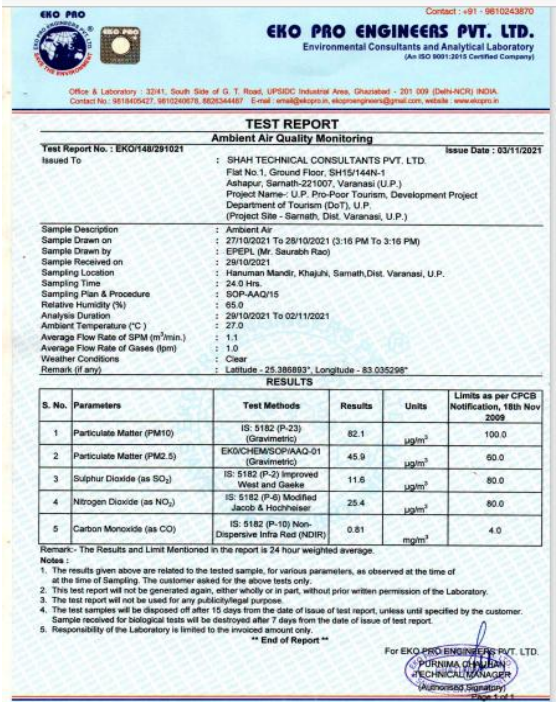
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	88.4	µg/m³	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	47.2	µg/m³	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	12.1	µg/m³	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	29.4	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.87	mg/m³	4.0

Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

Notes :
1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



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Environmental Consultants and Analytical Laboratory
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Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : emak@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/148/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 27/10/2021 To 28/10/2021 (3:16 PM To 3:16 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Hanuman Mandir, Khajuhi, Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Relative Humidity (%)	: 65.0
Analysis Duration	: 29/10/2021 To 02/11/2021
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.386893°, Longitude - 83.035298°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	82.1	$\mu g/m^3$	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	45.9	$\mu g/m^3$	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	11.6	$\mu g/m^3$	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	25.4	$\mu g/m^3$	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.81	mg/m^3	4.0

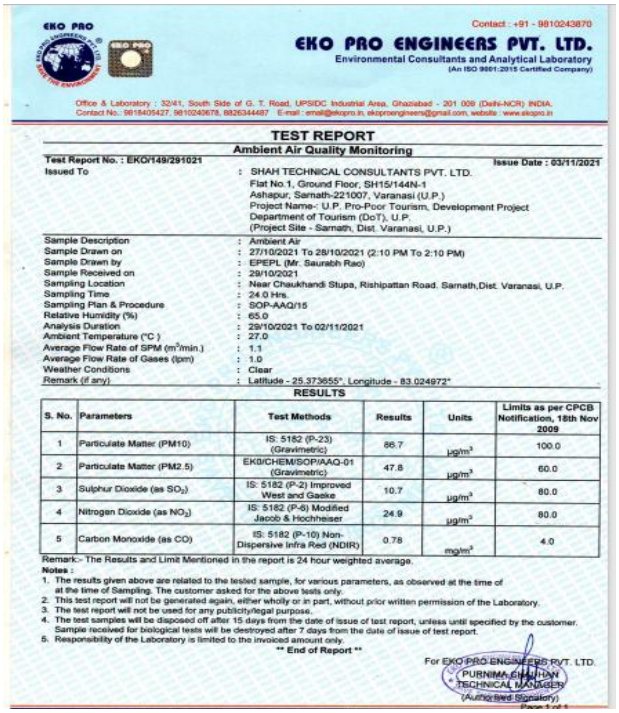
Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

Notes :
1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
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5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)

Page 1 of 1



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Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : emak@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Ambient Air Quality Monitoring

Test Report No. : EKO/149/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Air
Sample Drawn on	: 27/10/2021 To 28/10/2021 (2:10 PM To 2:10 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Near Chaukhandi Stupa, Rishipattan Road, Sarnath,Dist. Varanasi, U.P.
Sampling Time	: 24.0 Hrs.
Sampling Plan & Procedure	: SOP-AAQ/15
Relative Humidity (%)	: 65.0
Analysis Duration	: 29/10/2021 To 02/11/2021
Ambient Temperature (°C)	: 27.0
Average Flow Rate of SPM (m^3/min.)	: 1.1
Average Flow Rate of Gases (lpm)	: 1.0
Weather Conditions	: Clear
Remark (if any)	: Latitude - 25.373655°, Longitude - 83.024972°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23) (Gravimetric)	86.7	$\mu g/m^3$	100.0
2	Particulate Matter (PM2.5)	EKO/CHEM/SOP/AAQ-01 (Gravimetric)	47.8	$\mu g/m^3$	60.0
3	Sulphur Dioxide (as SO_2)	IS: 5182 (P-2) Improved West and Gaeke	10.7	$\mu g/m^3$	80.0
4	Nitrogen Dioxide (as NO_2)	IS: 5182 (P-6) Modified Jacob & Hochheiser	24.9	$\mu g/m^3$	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10) Non-Dispersive Infra Red (NDIR)	0.78	mg/m^3	4.0

Remark:- The Results and Limit Mentioned in the report is 24 hour weighted average.

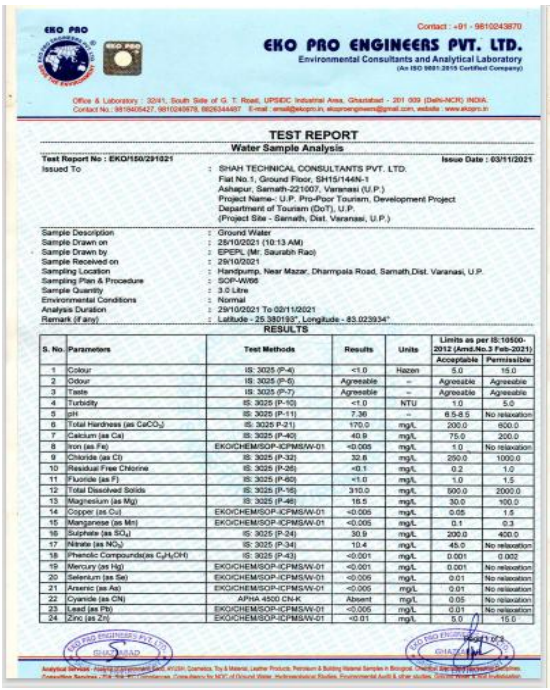
Notes :
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** End of Report **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)

Page 1 of 1

Water Quality



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : emak@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Water Sample Analysis

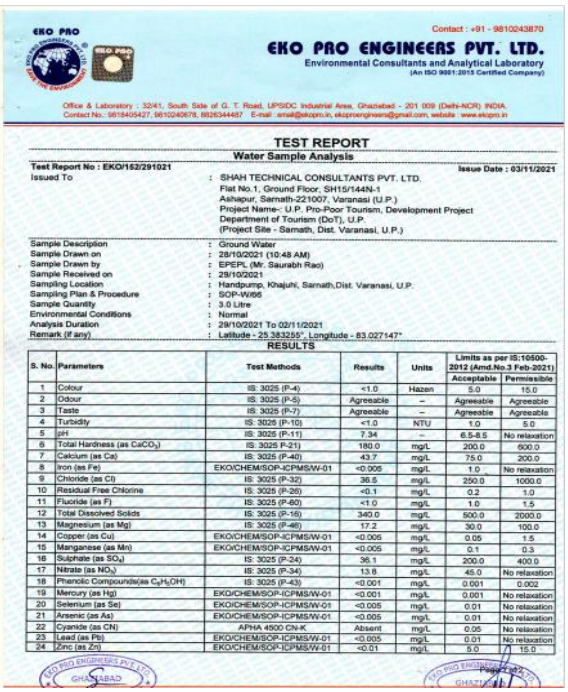
Test Report No : EKO/150/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ground Water
Sample Drawn on	: 28/10/2021 (10:13 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Handpump, Near Mazar, Dharmpala Road, Sarnath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-W/66
Sample Quantity	: 3.0 Litre
Environmental Conditions	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.380193°, Longitude - 83.023934°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS:10500-2012 (Amd.No.3 Feb-2021)	
					Acceptable	Permissible
1	Colour	IS: 3025 (P-4)	<1.0	Hazen	5.0	15.0
2	Odour	IS: 3025 (P-5)	Agreeable	–	Agreeable	Agreeable
3	Taste	IS: 3025 (P-7)	Agreeable	–	Agreeable	Agreeable
4	Turbidity	IS: 3025 (P-10)	<1.0	NTU	1.0	5.0
5	pH	IS: 3025 (P-11)	7.36	–	6.5-8.5	No relaxation
6	Total Hardness (as $CaCO_3$)	IS: 3025 P-21)	170.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS: 3025 (P-40)	40.9	mg/L	75.0	200.0
8	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
9	Chloride (as Cl)	IS: 3025 (P-32)	32.6	mg/L	250.0	1000.0
10	Residual Free Chlorine	IS: 3025 (P-26)	<0.1	mg/L	0.2	1.0
11	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
12	Total Dissolved Solids	IS: 3025 (P-16)	310.0	mg/L	500.0	2000.0
13	Magnesium (as Mg)	IS: 3025 (P-46)	16.5	mg/L	30.0	100.0
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	1.5
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
16	Sulphate (as SO_4)	IS: 3025 (P-24)	30.9	mg/L	200.0	400.0
17	Nitrate (as NO_3)	IS: 3025 (P-34)	10.4	mg/L	45.0	No relaxation
18	Phenolic Compounds(as C_6H_5OH)	IS: 3025 (P-43)	<0.001	mg/L	0.001	0.002
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
22	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	<0.01	mg/L	5.0	15.0



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TEST REPORT
Water Sample Analysis

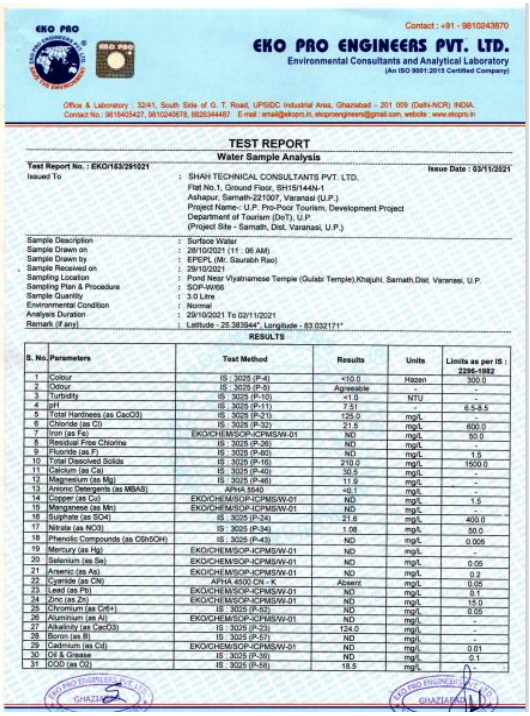
Test Report No : EKO/152/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Sarnath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Sarnath, Dist. Varanasi, U.P.)

Sample Description	: Ground Water
Sample Drawn on	: 28/10/2021 (10:48 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Handpump, Khajuhi, Sarnath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-W/66
Sample Quantity	: 3.0 Litre
Environmental Conditions	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.383255°, Longitude - 83.027147°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS:10500-2012 (Amd.No.3 Feb-2021)	
					Acceptable	Permissible
1	Colour	IS: 3025 (P-4)	<1.0	Hazen	5.0	15.0
2	Odour	IS: 3025 (P-5)	Agreeable	–	Agreeable	Agreeable
3	Taste	IS: 3025 (P-7)	Agreeable	–	Agreeable	Agreeable
4	Turbidity	IS: 3025 (P-10)	<1.0	NTU	1.0	5.0
5	pH	IS: 3025 (P-11)	7.34	–	6.5-8.5	No relaxation
6	Total Hardness (as $CaCO_3$)	IS: 3025 P-21)	180.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS: 3025 (P-40)	43.7	mg/L	75.0	200.0
8	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	1.0	No relaxation
9	Chloride (as Cl)	IS: 3025 (P-32)	36.5	mg/L	250.0	1000.0
10	Residual Free Chlorine	IS: 3025 (P-26)	<0.1	mg/L	0.2	1.0
11	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5
12	Total Dissolved Solids	IS: 3025 (P-16)	340.0	mg/L	500.0	2000.0
13	Magnesium (as Mg)	IS: 3025 (P-46)	17.2	mg/L	30.0	100.0
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.05	1.5
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.1	0.3
16	Sulphate (as SO_4)	IS: 3025 (P-24)	36.1	mg/L	200.0	400.0
17	Nitrate (as NO_3)	IS: 3025 (P-34)	13.6	mg/L	45.0	No relaxation
18	Phenolic Compounds(as C_6H_5OH)	IS: 3025 (P-43)	<0.001	mg/L	0.001	0.002
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	<0.001	mg/L	0.001	No relaxation
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
22	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	<0.005	mg/L	0.01	No relaxation
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	<0.01	mg/L	5.0	15.0



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Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Water Sample Analysis

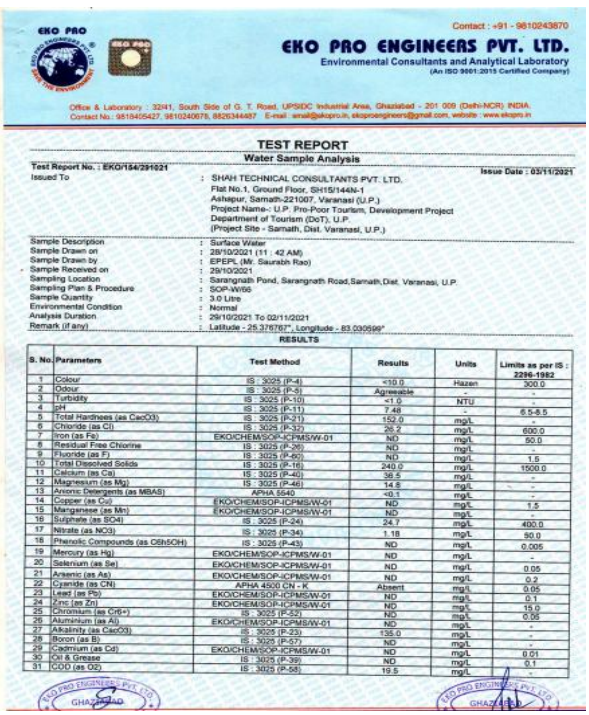
Test Report No. : EKO/153/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Surface Water
Sample Drawn on	: 28/10/2021 (11 : 06 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Pond Near Vyatnamese Temple (Gulabi Temple),Khajuhi, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-W/66
Sample Quantity	: 3.0 Litre
Environmental Condition	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.383944°, Longitude - 83.032171°

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per IS : 2296-1982
1	Colour	IS : 3025 (P-4)	<10.0	Hazen	300.0
2	Odour	IS : 3025 (P-5)	Agreeable	-	-
3	Turbidity	IS : 3025 (P-10)	<1.0	NTU	-
4	pH	IS : 3025 (P-11)	7.51	-	6.5-8.5
5	Total Hardness (as CaCO3)	IS : 3025 (P-21)	125.0	mg/L	-
6	Chloride (as Cl)	IS : 3025 (P-32)	21.5	mg/L	600.0
7	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	50.0
8	Residual Free Chlorine	IS : 3025 (P-26)	ND	mg/L	-
9	Fluoride (as F)	IS : 3025 (P-60)	ND	mg/L	1.5
10	Total Dissolved Solids	IS : 3025 (P-16)	219.0	mg/L	1500.0
11	Calcium (as Ca)	IS : 3025 (P-40)	30.5	mg/L	-
12	Magnesium (as Mg)	IS : 3025 (P-46)	11.9	mg/L	-
13	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	-
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	1.5
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
16	Sulphate (as SO4)	IS : 3025 (P-24)	21.6	mg/L	400.0
17	Nitrate (as NO3)	IS : 3025 (P-34)	1.08	mg/L	50.0
18	Phenolic Compounds (as C6h5OH)	IS : 3025 (P-43)	ND	mg/L	0.005
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.05
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.2
22	Cyanide (as CN)	APHA 4500 CN - K	Absent	mg/L	0.05
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.1
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	15.0
25	Chromium (as Cr6+)	IS : 3025 (P-52)	ND	mg/L	0.05
26	Aluminium (as Al)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
27	Alkalinity (as CaCO3)	IS : 3025 (P-23)	124.0	mg/L	-
28	Boron (as B)	IS : 3025 (P-57)	ND	mg/L	-
29	Cadmium (as Cd)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.01
30	Oil & Grease	IS : 3025 (P-39)	ND	mg/L	0.1
31	COD (as O2)	IS : 3025 (P-58)	18.5	mg/L	-



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Water Sample Analysis

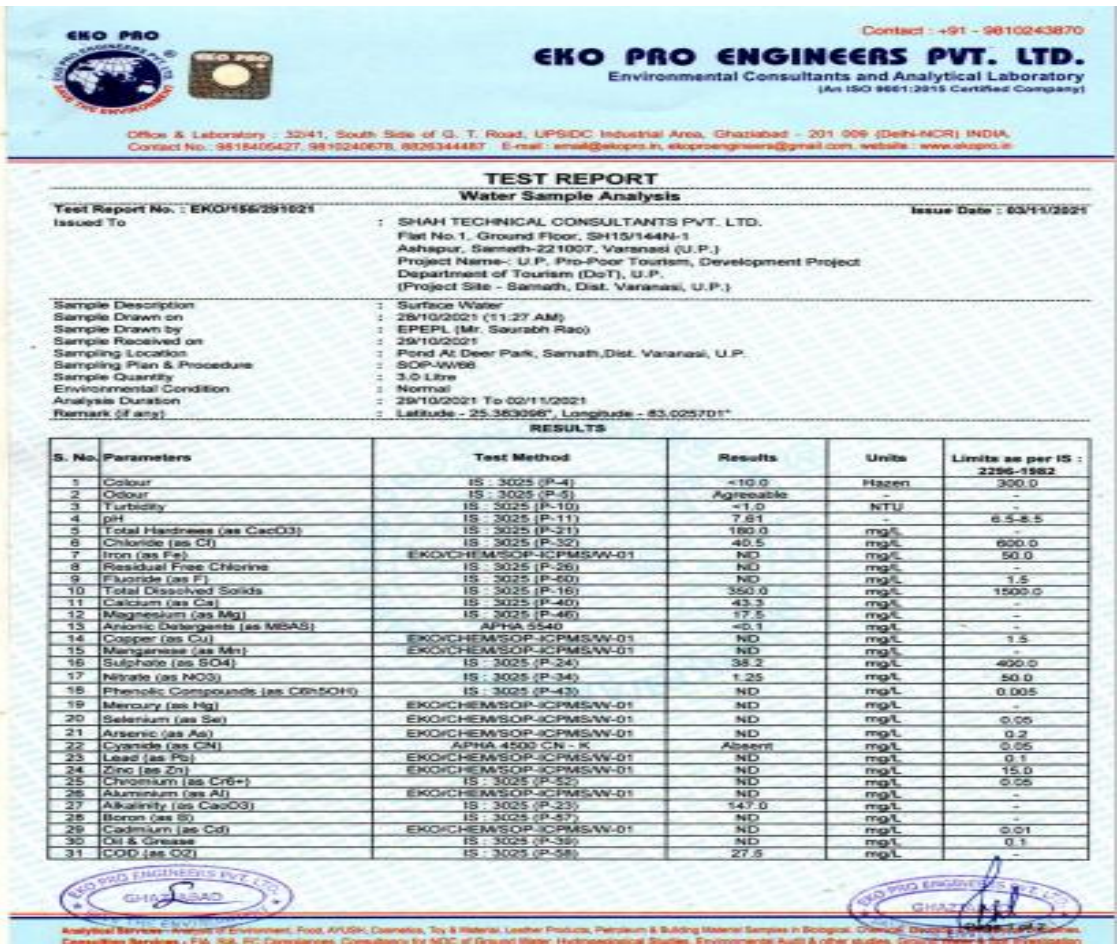
Test Report No. : EKO/154/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Surface Water
Sample Drawn on	: 28/10/2021 (11 : 42 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Sarangnath Pond, Sarangnath Road,Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-W/66
Sample Quantity	: 3.0 Litre
Environmental Condition	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.376767°, Longitude - 83.030599°

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per IS : 2296-1982
1	Colour	IS : 3025 (P-4)	<10.0	Hazen	300.0
2	Odour	IS : 3025 (P-5)	Agreeable	-	-
3	Turbidity	IS : 3025 (P-10)	<1.0	NTU	-
4	pH	IS : 3025 (P-11)	7.48	-	6.5-8.5
5	Total Hardness (as CaCO3)	IS : 3025 (P-21)	152.0	mg/L	-
6	Chloride (as Cl)	IS : 3025 (P-32)	25.2	mg/L	600.0
7	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	50.0
8	Residual Free Chlorine	IS : 3025 (P-26)	ND	mg/L	-
9	Fluoride (as F)	IS : 3025 (P-60)	ND	mg/L	1.5
10	Total Dissolved Solids	IS : 3025 (P-16)	240.0	mg/L	1500.0
11	Calcium (as Ca)	IS : 3025 (P-40)	36.5	mg/L	-
12	Magnesium (as Mg)	IS : 3025 (P-46)	14.6	mg/L	-
13	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	-
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	1.5
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
16	Sulphate (as SO4)	IS : 3025 (P-24)	24.7	mg/L	400.0
17	Nitrate (as NO3)	IS : 3025 (P-34)	1.18	mg/L	50.0
18	Phenolic Compounds (as C6h5OH)	IS : 3025 (P-43)	ND	mg/L	0.005
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.05
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.2
22	Cyanide (as CN)	APHA 4500 CN - K	Absent	mg/L	0.05
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.1
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	15.0
25	Chromium (as Cr6+)	IS : 3025 (P-52)	ND	mg/L	0.05
26	Aluminium (as Al)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
27	Alkalinity (as CaCO3)	IS : 3025 (P-23)	135.0	mg/L	-
28	Boron (as B)	IS : 3025 (P-57)	ND	mg/L	-
29	Cadmium (as Cd)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.01
30	Oil & Grease	IS : 3025 (P-39)	ND	mg/L	0.1
31	COD (as O2)	IS : 3025 (P-58)	19.5	mg/L	-



EKO PRO ENGINEERS PVT. LTD.
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Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Water Sample Analysis

Test Report No. : EKO/155/291021 — **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Surface Water
Sample Drawn on	: 28/10/2021 (11:27 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Pond At Deer Park, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-W/66
Sample Quantity	: 3.0 Litre
Environmental Condition	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.383096°, Longitude - 83.025701°

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per IS : 2296-1982
1	Colour	IS : 3025 (P-4)	<10.0	Hazen	300.0
2	Odour	IS : 3025 (P-5)	Agreeable	-	-
3	Turbidity	IS : 3025 (P-10)	<1.0	NTU	-
4	pH	IS : 3025 (P-11)	7.81	-	6.5-8.5
5	Total Hardness (as CaCO3)	IS : 3025 (P-21)	180.0	mg/L	-
6	Chloride (as Cl)	IS : 3025 (P-32)	40.5	mg/L	600.0
7	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	50.0
8	Residual Free Chlorine	IS : 3025 (P-26)	ND	mg/L	-
9	Fluoride (as F)	IS : 3025 (P-60)	ND	mg/L	1.5
10	Total Dissolved Solids	IS : 3025 (P-16)	350.0	mg/L	1500.0
11	Calcium (as Ca)	IS : 3025 (P-40)	43.3	mg/L	-
12	Magnesium (as Mg)	IS : 3025 (P-46)	17.5	mg/L	-
13	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	-
14	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	1.5
15	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
16	Sulphate (as SO4)	IS : 3025 (P-24)	38.2	mg/L	400.0
17	Nitrate (as NO3)	IS : 3025 (P-34)	1.25	mg/L	50.0
18	Phenolic Compounds (as C6h5OH)	IS : 3025 (P-43)	ND	mg/L	0.005
19	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
20	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.05
21	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.2
22	Cyanide (as CN)	APHA 4500 CN - K	Absent	mg/L	0.05
23	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.1
24	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	15.0
25	Chromium (as Cr6+)	IS : 3025 (P-52)	ND	mg/L	0.05
26	Aluminium (as Al)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	-
27	Alkalinity (as CaCO3)	IS : 3025 (P-23)	147.0	mg/L	-
28	Boron (as B)	IS : 3025 (P-57)	ND	mg/L	-
29	Cadmium (as Cd)	EKO/CHEM/SOP-ICPMS/W-01	ND	mg/L	0.01
30	Oil & Grease	IS : 3025 (P-39)	ND	mg/L	0.1
31	COD (as O2)	IS : 3025 (P-58)	27.5	mg/L	-

Soil



EKO PRO ENGINEERS PVT. LTD.
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(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoprengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Soil Sample Analysis

Test Report No. : EKO/156/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Soil Sample
Sample Drawn on	: 27/10/2021 (4:54 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Munari Road, Near Buddha Theme Park, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-S/S5
Sample Quantity	: 1.0 kg.
Environmental Condition	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.383921°, Longitude - 83.021531°

RESULTS

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.41	-
2	Colour	Visual	Light Brown	-
3	Conductivity (1:5 Suspension)	IS: 2720 (P-21)	510.8	µS/cm
4	Water Holding Capacity	EKO/CHEM/SOP/S-21	24.6	% by mass
5	Bulk Density	EKO/CHEM/SOP/S-12	1.25	g/c^3
6	Calcium Exchangeable (as Ca)	EKO/CHEM/SOP/S-08	1140.2	mg/kg
7	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	276.4	mg/kg
8	Potassium Available (as K)	EKO/CHEM/SOP/S-02	198.7	mg/kg
9	Magnesium Exchangeable (as Mg)	Ministry of Agriculture Manual 2011	318.3	mg/kg
10	Available Nitrogen (as N)	EKO/CHEM/SOP/S-01	490.7	mg/kg
11	Phosphorus (as P)	EKO/CHEM/SOP/S-03	88.1	mg/kg
12	Organic Carbon	IS: 2720 (P-22)	0.45	% by mass
13	Moisture Content	IS: 2720 (P-2)	14.9	% by mass
14	Texture	EKO/CHEM/SOP/S-11	Sandy Clay	-
15	Chloride (as Cl)	EKO/CHEM/SOP/S-01	168.5	mg/kg
16	Sulphate (as SO_4)	IS: 2720 (P-27)	340.7	mg/kg
17	Bicarbonate	EKO/CHEM/SOP/S-17	148.8	mg/kg
18	Porosity	SOP-S/S2/22	10.2	% by mass
19	Iron (as Fe)	USEPA-SW 846 7130	46.8	mg/kg
20	Lead (as Pb)	USEPA-SW 846 7130	<1.0	mg/kg

Notes :
1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

For EKO PRO ENGINEERS PVT. LTD.
(PURNIMA CHAUHAN)
TECHNICAL MANAGER
(Authorised Signatory)

Page 1 of 1



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Environmental Consultants and Analytical Laboratory
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Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoprengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Soil Sample Analysis

Test Report No. : EKO/156/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Soil Sample
Sample Drawn on	: 27/10/2021 (4:54 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Munari Road, Near Buddha Theme Park, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-S/S5
Sample Quantity	: 1.0 kg.
Environmental Condition	: Normal
Analysis Duration	: 29/10/2021 To 02/11/2021
Remark (if any)	: Latitude - 25.383921°, Longitude - 83.021531°

RESULTS

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.41	-
2	Colour	Visual	Light Brown	-
3	Conductivity (1:5 Suspension)	IS: 2720 (P-21)	510.8	µS/cm
4	Water Holding Capacity	EKO/CHEM/SOP/S-21	24.6	% by mass
5	Bulk Density	EKO/CHEM/SOP/S-12	1.25	g/c^3
6	Calcium Exchangeable (as Ca)	EKO/CHEM/SOP/S-08	1140.2	mg/kg
7	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	276.4	mg/kg
8	Potassium Available (as K)	EKO/CHEM/SOP/S-02	198.7	mg/kg
9	Magnesium Exchangeable (as Mg)	Ministry of Agriculture Manual 2011	318.3	mg/kg
10	Available Nitrogen (as N)	EKO/CHEM/SOP/S-01	490.7	mg/kg
11	Phosphorus (as P)	EKO/CHEM/SOP/S-03	88.1	mg/kg
12	Organic Carbon	IS: 2720 (P-22)	0.45	% by mass
13	Moisture Content	IS: 2720 (P-2)	14.9	% by mass
14	Texture	EKO/CHEM/SOP/S-11	Sandy Clay	-
15	Chloride (as Cl)	EKO/CHEM/SOP/S-01	168.5	mg/kg
16	Sulphate (as SO_4)	IS: 2720 (P-27)	340.7	mg/kg
17	Bicarbonate	EKO/CHEM/SOP/S-17	148.8	mg/kg
18	Porosity	SOP-S/S2/22	10.2	% by mass
19	Iron (as Fe)	USEPA-SW 846 7130	46.8	mg/kg
20	Lead (as Pb)	USEPA-SW 846 7130	<1.0	mg/kg

Notes :
1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

For EKO PRO ENGINEERS PVT. LTD.
(PURNIMA CHAUHAN)
TECHNICAL MANAGER
(Authorised Signatory)

Page 1 of 1

Noise



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(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoprengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Noise Monitoring

Test Report No. : EKO/158/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 26/10/2021 To 27/10/2021 (01:16 PM To 01:16 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Near Post office, Ashok Road Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.377861°, Longitude - 83.027213°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	68.1	dB (A)	50.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	50.4	dB (A)	40.0

Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

Notes :
1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

For EKO PRO ENGINEERS PVT. LTD.
TECHNICAL MANAGER
(Authorised Signatory)
SAVE THE ENVIRONMENT



EKO PRO ENGINEERS PVT. LTD.
Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)
Contact : +91 - 9810243870

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoprengineers@gmail.com, website : www.ekopro.in

TEST REPORT
Noise Monitoring

Test Report No. : EKO/159/291021 — Issue Date : 03/11/2021

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 26/10/2021 To 27/10/2021 (02:48 PM To 02:48 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Jain Temple, Dhampala Road, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.380046°, Longitude - 83.024737°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	67.2	dB (A)	50.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	54.1	dB (A)	40.0

Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

Notes :
1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
3. The test report will not be used for any publicity/legal purpose.
4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

For EKO PRO ENGINEERS PVT. LTD.
(PURNIMA CHAUHAN)
TECHNICAL MANAGER
SAVE THE ENVIRONMENT



Contact : +91 - 9810243870

EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory
(An ISO 9001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.
Contact No.: 9818405427, 9810240678, 8826344487 E-mail : email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT

Noise Monitoring

Test Report No. : EKO/160/291021 **Issue Date : 03/11/2021**

Issued To : SHAH TECHNICAL CONSULTANTS PVT. LTD.
Flat No.1, Ground Floor, SH15/144N-1
Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 26/10/2021 To 27/10/2021 (03:09 PM To 03:09 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Station Road, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.377053°, Longitude - 83.031650°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	65.1	dB (A)	65.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	52.8	dB (A)	55.0

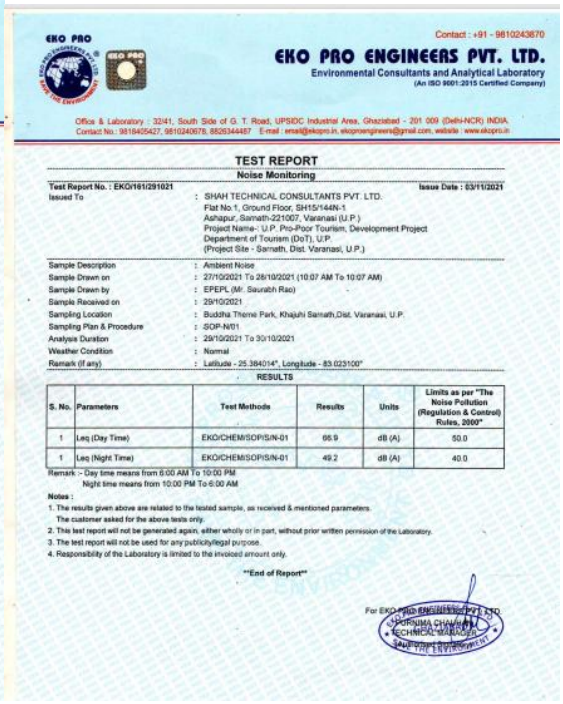
Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

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"End of Report"

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



Contact : +91 - 9810243870

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Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 27/10/2021 To 28/10/2021 (10:07 AM To 10:07 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Buddha Theme Park, Khajuhi Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.384014°, Longitude - 83.023100°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	66.9	dB (A)	50.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	49.2	dB (A)	40.0

Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

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For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER



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TEST REPORT

Noise Monitoring

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Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 27/10/2021 To 28/10/2021 (12:59 PM To 12:59 PM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Hanuman Mandir, Khajuhi, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.382934°, Longitude - 83.029767°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	69.7	dB (A)	50.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	50.5	dB (A)	40.0

Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

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For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)



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Ashapur, Samath-221007, Varanasi (U.P.)
Project Name:- U.P. Pro-Poor Tourism, Development Project
Department of Tourism (DoT), U.P.
(Project Site - Samath, Dist. Varanasi, U.P.)

Sample Description	: Ambient Noise
Sample Drawn on	: 27/10/2021 To 28/10/2021 (11:28 AM To 11:28 AM)
Sample Drawn by	: EPEPL (Mr. Saurabh Rao)
Sample Received on	: 29/10/2021
Sampling Location	: Near Chaukhandi Stupa, Rishipattan Road, Samath,Dist. Varanasi, U.P.
Sampling Plan & Procedure	: SOP-N/01
Analysis Duration	: 29/10/2021 To 30/10/2021
Weather Condition	: Normal
Remark (if any)	: Latitude - 25.373527°, Longitude - 83.024711°

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	EKO/CHEM/SOP/S/N-01	70.2	dB (A)	50.0
1	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	51.4	dB (A)	40.0

Remark :- Day time means from 6:00 AM To 10:00 PM
Night time means from 10:00 PM To 6:00 AM

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"End of Report"

ANNEXURE 3: LIST OF VENDORS PROVIDED BY DUDA (NAGAR NIGAM) VARANASI

जिला नगरीय विकास अभिकरण, वाराणसी

निकट सांस्कृतिक संकुल चौकाघाट

पत्रांक : 1153 / परि०अधि० /21-22

दिनांक: 26-11-2021

सेवा में

परियोजना निदेशक
उ०प्र० प्रो-पुअर पर्यटन विकास परियोजना
पर्यटन निदेशालय लखनऊ।

विषय – विश्व बैंक सहायतित उ०प्र० प्रो-पुअर पर्यटन विकास परियोजना के अंतर्गत जनपद-वाराणसी के सारनाथ में स्थित वेंडर्स की सूची के सम्बन्ध में।

महोदय,

कृपया आपके प०सं० 627/2021/समदिनांकित लखनऊ दिनांक 23.11.2021 का सन्दर्भ ग्रहण करने का कष्ट करें जिसके माध्यम से विश्व बैंक सहायतित उ०प्र० प्रो-पुअर पर्यटन विकास परियोजना के अंतर्गत जनपद-वाराणसी के सारनाथ में स्थित वेंडर्स की प्रमाणित सूची उपलब्ध कराने की अपेक्षा की गयी है। तत्क्रम में सारनाथ में स्थित वेंडर्स की प्रमाणित सूची संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित है

कृपया उपरोक्तानुसार सूचना सादर सेवा में प्रेषित है।

संलग्नक:- 341 पथ विक्रेताओं की सूची।

भवदीया

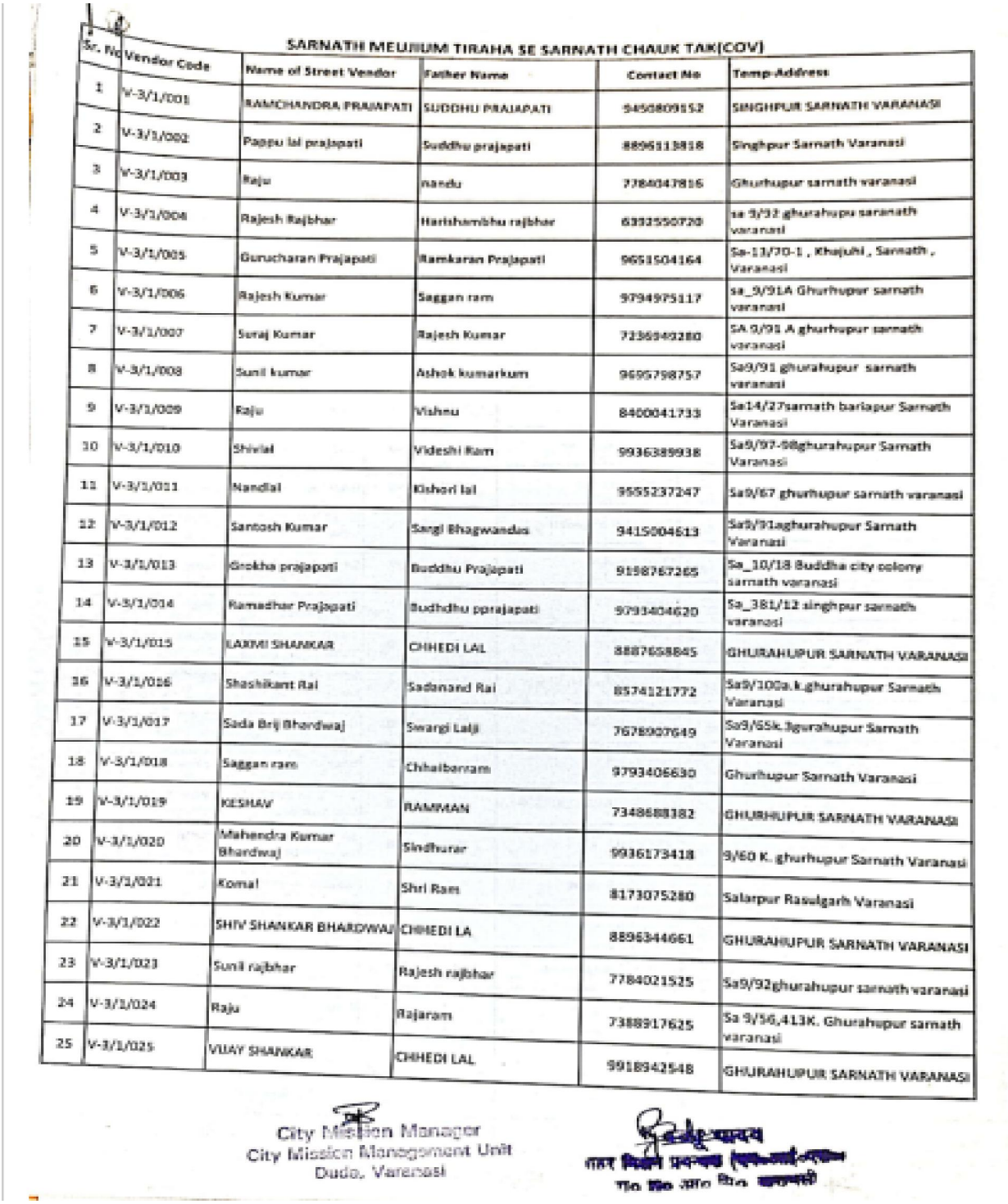
(जेपी सिंह)
परियोजना अधिकारी
डूडा वाराणसी

प्रतिलिपि –

1. उपाध्यक्ष वाराणसी विकास प्राधिकरण वाराणसी को अवलोकनार्थ।
2. मे० शाह कंसल्टेंट्स प्रा०लि० को आवश्यक कार्यवाही हेतु प्रेषित

परियोजना अधिकारी
डूडा वाराणसी

a. Sarnath museum tiraha to Sarnath Tiraha



SARNATH MEUSUM TIRAHA SE SARNATH CHAUK TAK(COV)

Sr. No	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp Address
1	V-3/1/001	RAMCHANDRA PRAJAPATI	SUDDHU PRAJAPATI	9450809552	SINGHPUR SARNATH VARANASI
2	V-3/1/002	Pappu lal prajapati	Suddhu prajapati	8896513818	Singhpur Sarnath Varanasi
3	V-3/1/003	Raju	nandu	7784047816	Ghurhupur sarnath varanasi
4	V-3/1/004	Rajesh Rajbhar	Haritshambhu rajbhar	6332550720	sa 9/32 ghurahupu saranath varanasi
5	V-3/1/005	Gurucharan Prajapati	Ramkaran Prajapati	9651504164	Sa-13/70-1 , Khajuhi , Sarnath , Varanasi
6	V-3/1/006	Rajesh Kumar	Saggan ram	9794975117	sa_9/91A Ghurhupur sarnath varanasi
7	V-3/1/007	Suraj Kumar	Rajesh Kumar	7236949280	SA 9/91 A ghurhupur sarnath varanasi
8	V-3/1/008	Sunil kumar	Ashok kumarkum	9695798757	Sa9/91 ghurahupur sarnath varanasi
9	V-3/1/009	Raju	Vishnu	8400041733	Sa14/27sarnath bariapur Sarnath Varanasi
10	V-3/1/010	Shivlal	Videshi Ram	9936389938	Sa9/97-98ghurahupur Sarnath Varanasi
11	V-3/1/011	Nandlal	Kishori lal	9555237247	Sa9/67 ghurhupur sarnath varanasi
12	V-3/1/012	Santosh Kumar	Sangi Bhagwandas	9415004613	Sa9/91aghurahupur Sarnath Varanasi
13	V-3/1/013	Sirokha prajapati	Buddhu Prajapati	9198767265	Sa_10/18 Buddha city colony sarnath varanasi
14	V-3/1/014	Ramadhar Prajapati	Budhdhu pprajapati	9793404620	Sa_381/12 singhpur sarnath varanasi
15	V-3/1/015	LAXMI SHANKAR	CHHEDI LAL	8887658845	GHURAHUPUR SARNATH VARANASI
16	V-3/1/016	Shashikant Rai	Sadanand Rai	8574121772	Sa9/100a.k.ghurahupur Sarnath Varanasi
17	V-3/1/017	Sada Brij Bhardwaj	Swargi Lalji	7678907649	Sa9/55k.3gurahupur Sarnath Varanasi
18	V-3/1/018	Saggan ram	Chhaiberram	9793406630	Ghurhupur Sarnath Varanasi
19	V-3/1/019	KESHAV	RAMMAN	7348688382	GHURHUPUR SARNATH VARANASI
20	V-3/1/020	Mahendra Kumar Bhardwaj	Sindhurar	9936173418	9/60 K. ghurhupur Sarnath Varanasi
21	V-3/1/021	Komal	Shri Ram	8173075280	Salarpur Rasulgarh Varanasi
22	V-3/1/022	SHIV SHANKAR BHARDWAJ	CHHEDI LA	8896344661	GHURAHUPUR SARNATH VARANASI
23	V-3/1/023	Sunil rajbhar	Rajesh rajbhar	7784021525	Sa9/92ghurahupur sarnath varanasi
24	V-3/1/024	Raju	Rajaram	7388917625	Sa 9/56,413K. Ghurahupur sarnath varanasi
25	V-3/1/025	VIJAY SHANKAR	CHHEDI LAL	9918942548	GHURAHUPUR SARNATH VARANASI

City Mission Manager
City Mission Management Unit
Dudo, Varanasi

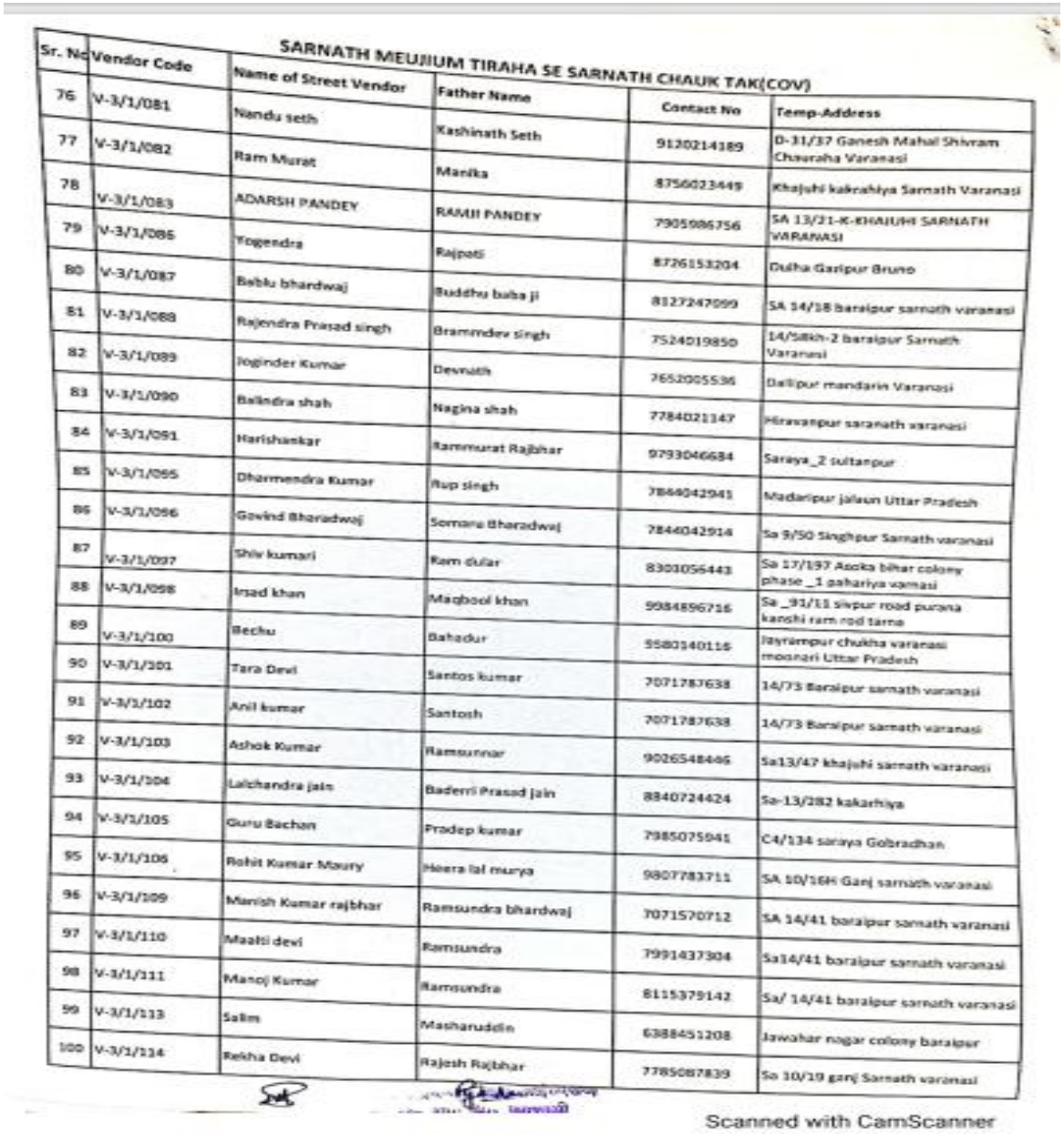
SARNATH MEUJIUM TIRAHA SE SARNATH CHAUK TAK(COV)

Sr. No	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
26	V-3/1/026	Rajkumar	mitha	8738877589	House no 14.damodarpur Sarnath varansi
27	V-3/1/027	Vijay Kumar	Saggan ram	9140147446	Ghurhupur Sarnath Varanasi
28	V-3/1/028	DEEPAK SHUKLA	UMASHANKAR SHUKLA	6394504915	SA 9/275 S K BUDDHA CITY COLONY PHASE 1 SARNATH VARANASI
29	V-3/1/029	Manoj Kumar	Babulal	9335725214	Sa9/76a ghurhupur Sarnath Varanasi
30	V-3/1/030	Kevla devi	Paras	7054617473	Sa12/3_2_3singhpur sarnath varanasi
31	V-3/1/031	Prakash Chandra	Babulal	7390068467	Sa9/76a ghurhupur Sarnath Varanasi
32	V-3/1/032	Om Prakash	Bhagwan Das	8563816683	Ghurhupur Sarnath Varanasi
33	V-3/1/033	Devdas Rajbhar	Lalchand Rajbhar	6392963080	9/43ghurhupur Sarnath Varanasi
34	V-3/1/034	Dharmendra Kumar	Chhotu rajbhar	6306509593	Ghurhupur sarnath varanasi
35	V-3/1/035	Vickey prajapati	Pappu Lal prajapati	8574754015	Sa-12/27G Singhpur Sarnath Varanasi
36	V-3/1/036	Tufani Kumar	Motichandra	8299242737	SA 9/78 ghurhupur sarnath varanasi
37	V-3/1/037	Ram sahare	Harichandra	9794892313	Ghurhupur sarnath varanasi
38	V-3/1/038	Ravi shankar	Harishchandra	8931005049	Sa-9/78 Ghurahupur Sarnath Varanasi
39	V-3/1/039	Ajay kumar	Radhe shyam bhardwaj	8574293588	Sa-9/78 Ghurahupur sranath varanasi
40	V-3/1/040	Dayaram rajbhar	Ramfal rajbhar	6306878530	Ganj sarnath varanasi
41	V-3/1/041	Pankaj bhardwaj	Raja Ram	8127312472	Ghurahupur sarnath varanasi
42	V-3/1/042	ANIL GUPTA	LATE SHANKAR LAL GUPTA	7800455632	S 3/79 SA DAULATPUR PANDEYPUR VARANASI
43	V-3/1/043	Suresh Kumar bhardwaj	Nihori lal	9935530536	SA 9/99 ghurhupur sarnath varanasi Uttar Pradesh
44	V-3/1/044	Sunil Kumar	Rajendra Prasad	8127888701	Madhwan cantt Varanasi
45	V-3/1/048	Chhotu	Ramnath	8601710184	Hiravanpur saranath varanasi
46	V-3/1/049	Anil Rajbhar	Ram lochan rajbhar	8853835238	SA 9/71 ghurahupur sarnath varanasi
47	V-3/1/050	Ram Lochan Rajbhar	Aganoo Rajbhar	8172979948	Ghurahupur Sarnath Varanasi
48	V-3/1/051	Shani Bhardwaj	Motichandra	6392785528	SA 9/91 ghurhupur sarnath varanasi Uttar Pradesh
49	V-3/1/052	Meera devi	Tufani Prasad	7398518958	SA 10/27 Ganj sarnath varanasi
50	V-3/1/053	Somaru Kumar rajbhar	Poncham rajbhar	8707605446	SA 10/51 Ganj sarnath varanasi

SARNATH MEUJIUM TIRAHA SE SARNATH CHAUK TAK(COV)

Sr. No	Vender Code	Name of Street Vendor	Father Name	Contact No	Temp Address
51	V-3/1/054	Rohit	Banarsi	8564916499	Sa 9/57 ghurhpur Sarnath varanasi
52	V-3/1/055	Ranjeet	Rabu ram	7071717494	Sa9/93 ghurhupur sarnath varanasi
53	V-3/1/056	Laalu	Munna lal	6394007052	Sa 9/84gurahupur sarnath varanasi
54	V-3/1/057	Golu	Majanu	8112510883	SA 9/44 ghurahupur sarnath
55	V-3/1/058	Subhash Kumar bhardwaj	Rajendra Prasad	9889876687	Sa10/34c-Sganj sarnath varanasi
56	V-3/1/059	Vijay Kumar bhardwaj	Rajendra Prasad	9807143440	Sa10/34 C-5 Ganj sarnath varanasi
57	V-3/1/060	Samsher rajbhar	Misri lal	8840419936	10/37 ganj sarnath varanasi
58	V-3/1/061	Deena bharadwaj	Ramshanker bharradwaj	7985909212	Sa-14/24-2
59	V-3/1/063	Aatma rajbhar	Kishorilal	8931004778	Sa 9/67sarnathvaranasi
60	V-3/1/065	Narayan prasad	Rammurat	9119604821	Saraiya no2
61	V-3/1/066	Kutthan	Narotam	9598404190	Sa14/18 baraipur sarnath varanasi
62	V-3/1/067	AJAY BHARDWAJ	KESHAV RAJBHAR	7348688382	GHURHUPUR SARNATH VARANASI
63	V-3/1/068	Dileep Kumar	Jitendra	8953573134	Sa14/23baraipur sarnath varanasi
64	V-3/1/069	Satish kumar bhardwaj	Hari ram	8542997228	Sa14/13baraipir sarnath varanasi
65	V-3/1/070	Ghnshayam bhardwaj	Nanku ram	9554447056	Sa14/18 baraipur sarnath varanasi
66	V-3/1/071	Bechu Lal Rajbhar	Chhavinath Rajbhar	8127502425	SA-14/79,Baraipur Sarnath Varanasi
67	V-3/1/072	Rajesh Kumar	Rama Ram	8896542934	Khajuhi Sarnath varanasi
68	V-3/1/073	Rasmati devi	Basantu	8005355837	Sa14/24 baraipur sarnath varanasi
69	V-3/1/074	Sajan bhardwaj	Ram ji	8563942129	Sa 10/21ganj sarnath varanasi
70	V-3/1/075	Mithai	Moti lal	9889320534	Sa 14/16 sarnath baraipur varanasi
71	V-3/1/076	Munniya devi	Ramdali	9936513040	Ghurhupur sarnath varanasi
72	V-3/1/077	Radheshyam bhardwaj	Nanhku ram	6386187638	Sa14/18 baraipur sarnath varanasi
73	V-3/1/078	Rajkumar jaiswal	Mishra lal	7071543662	Sa9/97C_a sarnath varanasi
74	V-3/1/079	Kanhaiya lal	Ram Murat	6386364494	SA 13/09 khajuhi sarnath varanasi
75	V-3/1/080	Gum Maya thapa	Dil Bahadur thapa	9335171876	Mauvaiya sarnath varanasi

City Livelihood Management Unit
Durga, Varanasi



SARNATH MEUJIUM TIRAHA SE SARNATH CHAUK TAK(COV)

Sr. No	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
76	V-3/1/081	Nandu seth	Kashinath Seth	9120214189	D-31/37 Ganesh Mahal Shivram Chauraha Varanasi
77	V-3/1/082	Ram Murat	Manka	8756023449	Khajuhi kakrahiya Sarnath Varanasi
78	V-3/1/083	ADARSH PANDEY	RAMJI PANDEY	7905986756	SA 13/21-K-KHAIUHI SARNATH VARANASI
79	V-3/1/086	Yogendra	Rajpati	8726153204	Dulha Garipur Bruno
80	V-3/1/087	Bablu bhardwaj	Buddhu baba ji	8127247099	SA 14/18 Baraipur sarnath varanasi
81	V-3/1/088	Rajendra Prasad singh	Brammdev singh	7524019850	14/58kh-2 baraipur Sarnath Varanasi
82	V-3/1/089	Joginder Kumar	Devnath	7652005536	Dalipur mandarin Varanasi
83	V-3/1/090	Balindra shah	Nagina shah	7784021147	Hiravanpur saranath varanasi
84	V-3/1/091	Harishankar	Rammurat Rajbhar	9793046684	Saraya_2 sultanpur
85	V-3/1/065	Dharmendra Kumar	Rup singh	7844042941	Madaripur jalaun Uttar Pradesh
86	V-3/1/066	Govind Bharadwaj	Somaru Bharadwaj	7844042914	Sa 9/50 Singhpur Sarnath varanasi
87	V-3/1/097	Shiv kumari	Ram dular	8303056443	Sa 17/197 Asoka bihar colony phase _1 paharlya varnasi
88	V-3/1/098	Insad khan	Maqbool khan	9984896716	Sa _91/11 sivpur road purana kanshi ram rod tarna
89	V-3/1/100	Bechu	Bahadur	9580140116	Jayrampur chukha varanasi moonari Uttar Pradesh
90	V-3/1/101	Tara Devi	Santos kumar	7071787638	14/73 Baraipur sarnath varanasi
91	V-3/1/102	Anil kumar	Santosh	7071787638	14/73 Baraipur sarnath varanasi
92	V-3/1/103	Ashok Kumar	Ramsunnar	9026548446	Sa13/47 khajuhi sarnath varanasi
93	V-3/1/104	Lalchandra jain	Baderri Prasad jain	8840724424	Sa-13/282 kakarhiya
94	V-3/1/105	Guru Bachan	Pradep kumar	7985075941	C4/134 saraya Gobradhan
95	V-3/1/106	Rohit Kumar Maury	Heera lal murya	9807783711	SA 10/16H Ganj sarnath varanasi
96	V-3/1/109	Manish Kumar rajbhar	Ramsundra bhardwaj	7071570712	SA 14/41 baraipur sarnath varanasi
97	V-3/1/110	Maalti devi	Ramsundra	7991437304	Sa14/41 baraipur sarnath varanasi
98	V-3/1/111	Manoj Kumar	Ramsundra	8115379142	Sa/ 14/41 baraipur sarnath varanasi
99	V-3/1/113	Salim	Masharuddin	6388451208	Jawahar nagar colony baraipur
100	V-3/1/114	Rekha Devi	Rajesh Rajbhar	7785087839	Sa 10/19 ganj Sarnath varanasi

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SARNATH MEUJIUM TIRAHA SE SARNATH CHAUK TAK(COV)

Sr. No	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
101	V-3/1/116	Munna lal gupta	Hira lal gupta	6388989232	Sa-14/276/3 baralpur varanasi
102	V-3/1/117	Wahida begam	Mohammad khalil khan	8960706278	14/174 baralpur sarnath varanasi
103	V-3/1/118	Shiv Prasad Madanwal	Shambhoo Nath	9695659587	Sa 13/73-K Khajuhi sarnath varanasi
104	V-3/1/119	Parvati rajbhar	Pancham	9198970025	Bayashpur chhahi sarnath varanasi

City Mission Manager
City Mission Management Unit
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b. Sarnath adhunik sulabh shauchalaya to Musium Tiraha-Munnari Road

SARNATH(ADHUNIK SULABH SHAUCHALAY SE MEUIIUM TIRAHE TAK MUNARI ROAD) -COV

Sr. No.	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp Address
1	V-3/16/001	Dhanesh kumar	Kailash nath	9336037024	Kailash nath marg, shinghpur, sarnath, varanasi
2	V-3/16/002	Motichandra	Ramman	8299343737	Ghurhupur asapur sarnath varanasi
3	V-3/16/003	Birabal yadav	late ram nihor yadav	9336015890	pandey ka pura post- tiwaripur varanasi
4	V-3/16/004	Bindu Devi	Ramayan	9648588536	Sa 10/16 Ganj sarnath varanasi
5	V-3/16/005	Somara devi	Lalchand rajbhar	9621083728	Sa3/43ghurahupur sarnath varanasi
6	V-3/16/006	Ram lochan	Mithalal	8858307521	Khurdpuri varanasi
7	V-3/16/007	Vijay Kumar	Mannu	7068775282	Sa 9/81 Ghurahupur Sarnath varanasi
8	V-3/16/008	Radhe shyam rajbhar	Gidar rajbhar	7007631388	SA 9/78 ghurhupur sarnath varanasi
9	V-3/16/009	Rambriksh yadav	Rannu yadav	7985801373	Sa 10/47ganj sarnath varanasi
10	V-3/16/010	Shahid Kamar sharma	Shalikauth nath sharma	9170504067	Singhpur sarnath varanasi
11	V-3/16/011	Mira devi	Raju	7084081191	Ghurhupur sarnath varanasi
12	V-3/16/012	Chandra Kumari Baniyan	Lakt Bahadur Baniyan	7388720850	Sa 14/1-21-k Bisrapur Sarnath varanasi
13	V-3/16/013	Rajendra Prasad	Sonal ram	7355031003	Sa10/34 c-5 ganj sarnath varanasi
14	V-3/16/014	MANKU DEVI	SHYAM LAL	8957097045	SA 9/91 GHURAHUPUR SARNATH VARANASI
15	V-3/16/015	Durgesh Kumar bharadwaj	Rajkumar bharadwaj	9170174473	Sa9/50g ghurahupur sarnath varanasi
16	V-3/16/016	Shivlal Rajbhar	Chhagur	9935377225	Ghurahupur Sarnath varanasi
17	V-3/16/017	Ramesh	Kallu prasad	9616832532	Sa-10/28 ganj sarnath varanasi
18	V-3/16/018	Chandan Maurya	Bechan	8858713526	N 236 munari choubepur
19	V-3/16/019	Ram Charan Chaurasiya	Lalji	8601307369	N 135 chhanhi munari
20	V-3/16/020	Harishchandra	Ramman	8931005049	Sa-9/78 Ghurahupur Sarnath varanasi
21	V-3/16/021	Munib bharadwaj	Changur	9389251197	Sa- Ghurahupur Sarnath varanasi
22	V-3/16/022	Vinod kumar	Baali charan rajbhar	9793790272	Sa13/49 khajuhi sarnath varanasi
23	V-3/16/023	Raju	Panna lal	9695625676	SA 13/46-2 khajuhi sarnath varanasi
24	V-3/16/025	Rajkumar Sharma	Shankar Sharma	7078876511	Singhpur sarnath varanasi

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SARNATH(ADHUNIK SULABH SHAUCHALAY SE MEUJIUM TIRAHE TAK MUNARI ROAD) -COV

Sr. No.	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
25	V-3/16/026	Gulab chand sonkar	Nand ram	8726436121	Gilat Bazar chuppepur cantt Varanasi
26	V-3/16/027	Dileep Kumar Bharadwaj	Shyam ji Bharadwaj	7985385742	Sa 9/44 Ghurahupur sarnath varanasi
27	V-3/16/028	Bablu Yadav	Raju	8887095805	Singhpur Sarnath varanasi
28	V-3/16/029	Ravindra Kumar	Shivlal	9065107795	SA 9/52 ghurhupur sarnath varanasi Uttar Pradesh
29	V-3/16/030	Subhawati devi	Lakhand	8303963080	Sa9/43 ghurhupur sarnath varanasi
30	V-3/16/031	Geeta	Nandala	9793002104	SA 9/97 ghurhupur sarnath varanasi
31	V-3/16/032	Jamuna devi	Paras	8429491216	Ganj sarnath varanasi Uttar Pradesh
32	V-3/16/033	Virendra Kumar Bhardwaj	Chhotthu Rajbhar	9519220625	SA 9/91 ghurhupur sarnath varanasi
33	V-3/16/034	Gurubachan prajapati	Ramkaran prajapati	7784021113	Khajuhi sarnath varanasi
34	V-3/16/035	Mahendra	paras	9807884418	madhupur post chandauli
35	V-3/16/036	Tilak ratan	Priyanshan	8948080146	Ganj saranath varanasi
36	V-3/16/037	Shila Devi	Kalloo	7068524538	Sa-9/90 ghurahupur sarnath varanasi
37	V-3/16/038	Priya ratan	Mehanu lal	8574170605	Sa 10/17 ganj sarnath varanasi
38	V-3/16/039	Mahadev rajbhar	Ramashray	6388525896	SA 14/27 ghurahupur sarnath varanasi
39	V-3/16/040	Anil	Ashok kumar	8004265895	Sa9/91 ghurahupur sarnath varanasi
40	V-3/16/041	Kunta devi	Charan ram	8574124755	SA 9/91 ghurhupur sarnath varanasi
41	V-3/16/042	Ashok kumar	Asramcharan	8004265895	Sa 9/91 ghurahupur sarnath varanasi
42	V-3/16/043	Kumari Devi	Pradip	7388830520	Sa10/16 B1_C sarnath varanasi
43	V-3/16/044	Vikram	Bhulla ram	8127340772	SA 12/15 singhpur sarnath varanasi
44	V-3/16/045	Ram ji	Moti	8306455685	Sa 9/77 ghurahupur Sarnath varanasi
45	V-3/16/046	Sona devi	Late Rajkumaar	6306459685	SA 9/95ghurhupur sarnath varanasi
46	V-3/16/047	Mukesh	Hiralal	9519361156	Sa9/45 ghurhupur ashapur sarnath varanasi
47	V-3/16/048	Rajesh kumar	Devnath	6306902413	Baralpur sarnath varanasi
48	V-3/16/049	Bhaiya lal patel	Shiv ratan patel	8500297696	Sa9/6ghurahupur sarnath varanasi

SARNATH(ADHUNIK SULABH SHAUCHALAY SE MEUIIUM TIRAHE TAK MUNARI ROAD) -CDV

Sr. No.	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
49	V-3/16/050	Suraj	Rikudi	8957715240	SA 0/79 ghurhupur sarnath varanasi
50	V-3/16/051	Vijay Kumar	Natto ram	9598544602	Paterawa sarnath varnasi
51	V-3/16/052	Mini devi	Dukkhu bhardwaj	7084647889	Sa10/0601C ganja sarnath varanasi
52	V-3/16/053	Mumtaj Ahamad	Abdul Ajij	8552833770	817/102 Pathanitola sarnath varanasi
53	V-3/16/054	Shyam ji yadav	Laxman yadav	7844832571	Cholapur pindra varanasi Uttar Pradesh
54	V-3/16/055	Manoj Kumar maurya	Madam Kumar maurya	7505350264	10/77_k_1gan(j sarnath varanasi
55	V-3/16/056	Sanjay kumar	Sagan ram	9695605734	Sa9/47ghuraiapur sarnath varanasi
56	V-3/16/057	DINESH KUMAR	RAJ KUMAR	9005066648	SA 9/59 G GHURAHUPUR SARNATH VARANASI
57	V-3/16/058	Amit jaiswal	Sanjay jaiswal	8565006200	Sa9/97c-3 ghurhupur sarnath varanasi
58	V-3/16/059	Vijayi Yadav	beddu Yadav	7346257824	Harihanpur Post Dhanshwa kadipur varanasi
59	V-3/16/060	Mayanath	Sugriw	7752853509	Sa9/58ghurahupur post sarnath varanasi
60	V-3/16/061	Sanjeev Kumar	Beerbal yadav	8182875187	Bhakhriyar post tiwaripur varanasi
61	V-3/16/062	Gayatri Devi	Vijay	8005255787	Sa_3/92 Ghurhupur sarnath
62	V-3/16/063	Ram Ashish Maurya	Fauji Maurya	7499734036	Sa10/56 ghurhupur sarnath varanasi
63	V-3/16/064	Brijesh	Rajendra prasad	8736032839	Sa-Ghursura Derawa cholapur
64	V-3/16/065	Anil	Bharat ram	8303127356	Sa 9/50 ghurhupur sarnath varanasi
65	V-3/16/066	Pancham	Radheshyam	9532619382	Radhey shyam
66	V-3/16/067	Manoj Rajbhar	Ramchandra	9140002341	Sa 11/13 Khojuhi Kukarahiya Sarnath varanasi
67	V-3/16/068	Ajeet kumar	Baba lal	7071717494	Ghurhupur sarnath varanasi
68	V-3/16/069	Rajendra prashad	Raghunath patel	8574938563	SA 9/26 ghurhupur sarnath varanasi
69	V-3/16/070	Buddha ram	Chhote lal	9115288068	Ghurhupur sarnath varanasi Uttar Pradesh
70	V-3/16/071	Jay Gopal	Rang lal	7539681098	Singhpur sarnath varanasi
71	V-3/16/072	Rajendra	Vijal	7985001875	Madhwa PANDERPUR Varanasi
72	V-3/16/073	Acchhe lal yadav	Bihari lal yadav	8324065236	Kanauli holapur kanali ghazipur Uttar Pradesh

City Mission Manager
City Mission Management Unit
Duda, Varanasi

SARNATH(ADHUNIK SULABH SHAUCHALAY SE MEJJIUM TIRAHE TAK MUNARI ROAD) -COV

Sr. No.	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
73	V-3/16/074	Shakuntala devi	Shuddhuram	7800209509	Singhpur sarnath varanasi
74	V-3/16/075	Tejbhadur	Viljmohan	8382828709	Sa-10/15-B-kha Ganj sarnath varanasi Uttar Pradesh
75		Chandra Mohan	Ganga Prasd Mishra	7376867196	
76		Meera Devi	Tufani	7398538958	
77		Chanda	Manoj	9889242445	
78		Mahendra	Shankar	9598372221	
79		Savitri Devi	Pappu		
80		Anil Rajbhar	Rajendra	8299686858	
81		Ramawadh	Janardan	9984409604	
82		Kamla Vishwakarma	Ram Kishan Mishra	9839260099	
83		Manju	Shivpujan	8957003076	
84		Anita	Chhatthu	6307610085	
85		Chandrawati	Ramsharan Prajapati	9936027461	
86		Suryanath Yadav	Birbal Yadav	8737034111	
87		Ramji	Babu Nandan	9369830822	
88		Munni	Rambali	8175950935	
89		Shanku	Moti		
90		Shyamu	Radheshyam	9519419382	
91		Parmila Devi	Anil Kumar	8381829760	
92		Anoop	Maya Nath	8896226182	
93		Sushma	Uma		

City Mission Manager
City Mission Management Unit
Duda, Varanasi

दीनू पासवा
वहुद्देशीय पर्यवेक्षक (सफाई-नायक)

C.Sarnath Railway Station

SARNATH RAILWAY STATION ROAD(WTP GATE SE BOUNDRY WALL MOD TAK)- CON

Sr. No.	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
1	V-3/18/001	Manoj kumar rajbhar	Chhedi lal	6391175761	Hiravanpur sarnath varanasi
2	V-3/18/002	Shukhu lal	Panaru ram	9936392537	Sa_13/63 khajuhi saranath varanasi
3	V-3/18/003	Bake bihari	Macho prasad	9793000942	Sa10/48gaej varanasi Uttar Pradesh
4	V-3/18/004	Urmila devi	Chhedi lal gond	8933814557	Sa 14/67 baraipur sarnath varanasi
5	V-3/18/005	Amit kumar prajapati	Murari lal prajapati	8756840861	Sa-13/70-1 khajuhi sarnath varanasi
6	V-3/18/006	SANGAM KUMAR	LALCHAND	9005721056	BARAIPUR SARNATH VARANASI
7	V-3/18/007	Achche lal	Nadia Chauhan	9682245662	Sa-19/114 Ambedakar camp okhla phase -1
8	V-3/18/008	Baijanti	Paravottam	7267872371	Sardha domanpur chiraigaon varanasi
9	V-3/18/009	Vicky Sharma	Rami Sharma	8574075216	Sa_nagepur maripur kundariya
10	V-3/18/010	Lallu prasad bhardwaj	Kanta prasad bhardwaj	8808230931	Sa-10/26 ganj varanasi
11	V-3/18/011	Pramod sharma	Ramsevak sharma	6394913411	Faridpur sarnath sultanpur varnasi
12	V-3/18/012	SHIV KUMAR GOND	LALTA GOND	8726703445	SA 13/46 R KHAJUHI SARNATH VARANASI
13	V-3/18/013	NANDLAL	LATE SITA RAM	8545996210	SA 14/122 HAVELIYA SARNATH VARANASI
14	V-3/18/014	SANJU DEVI	PRADEEP KUMAR	8545996210	PAGHCHEMPUR SHAHABUDDIPUR VARANASI
15	V-3/18/015	SHRAVAN YADAV	BACHCHU YADAV	7905015588	PANDPURSARNATH SULTANPUR VARANASI
16	V-3/18/016	ANJU BHARDWAJ	AJAY BHARDWAJ	8545996210	SA 14/67 BARAIPUR SARNATH VARANASI
17	V-3/18/017	DHARENDRA KUMAR PRAJAPATI	SHIV KUMAR	6306457706	SA- 4/18 DAULATPUR PANDEYPUR VARANASI

City Mission Manager
City Mission Management Unit
Dada, Varanasi

दीपू यादव
नगर मिशन प्रबन्धक (एम०एम०यू०)

SARNATH RAILWAY STATION ROAD(JAIN BOOK STALL SE DIET GATE TAK) COV

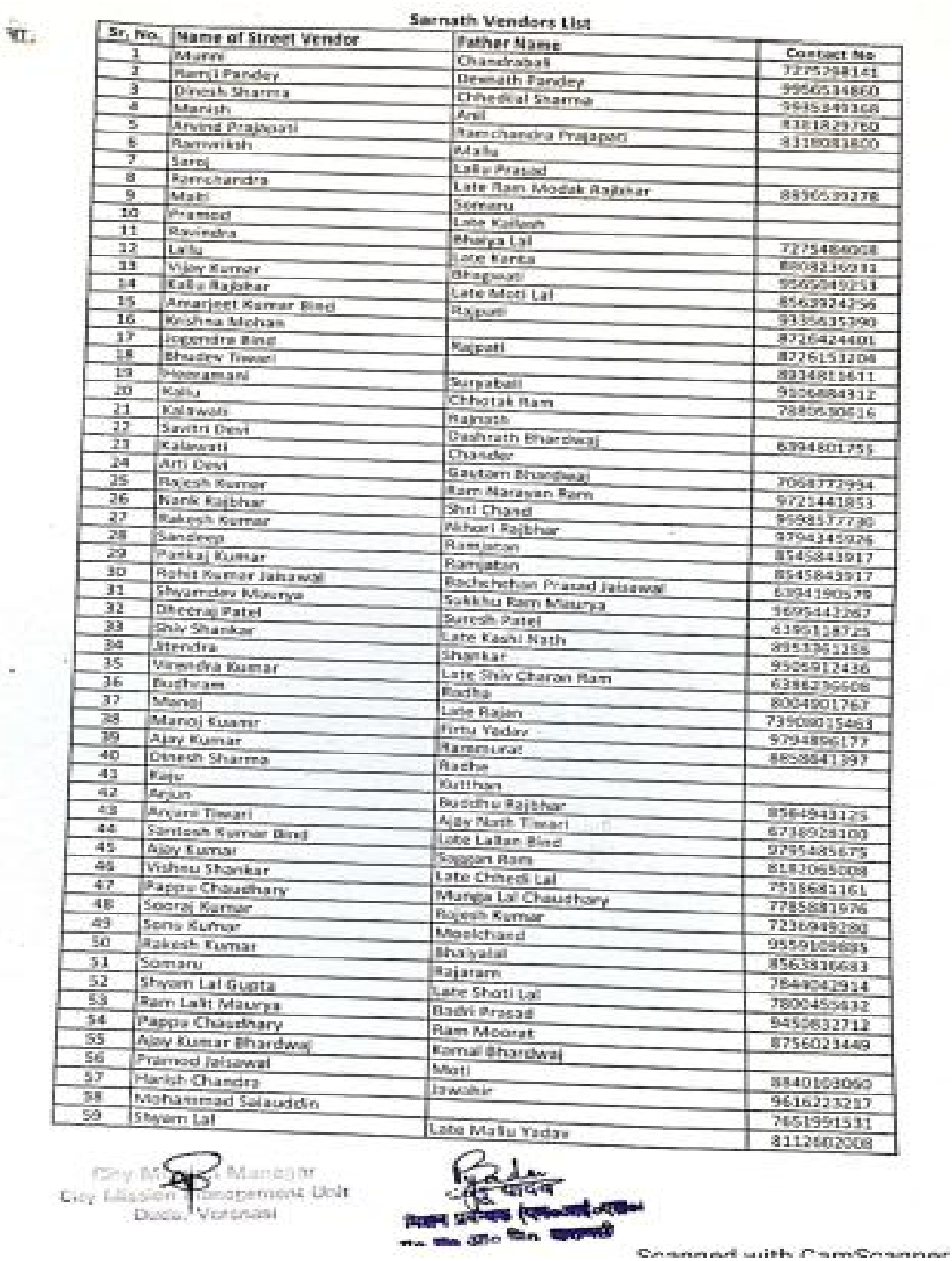
S.no	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
1	V-S/17/001	Jhanna lal jaiswal	Mevalal jaiswal	9918009833	Sa1.5/35 khajuhi sarnath varanasi Uttar Pradesh
2	V-S/17/002	KALAWATI DEVI	RAJNATH	8545074129	SA14/44 BARAIPUR SARNATH VARANASI
3	V-S/17/003	Kallan	Haralal	9795708354	Sa 14/50 Baraipur Sarnath Varanasi
4	V-S/17/004	Mevalal giri	Ramkaran giri	9839057370	Sa14/70Sarnathvaranasi
5	V-S/17/005	MUNNA LAL KANNOUIYA	CHILLAR RAM	9935003175	KHAJUHI SARNATH VARANASI
6	V-S/17/006	Pramod kumar	Kailash Rajbhar	8917756066	Ganj sarnath varanasi
7	V-S/17/007	Radheshyam Ram	Mukhram Ram	8005321432	Wasidchak, Hollpur,sadaiku chack, Gajipur
8	V-S/17/009	RAMCHANDRA BHARDWAJ	RAM MURAT	8896539278	SA 13/99 KHAJUHI SARNATH VARANASI
9	V-S/17/010	Roodal Gupta	Ganga Ram Gupta	9651492332	SA14/272,Baraipur Shaktipeeth , Sarnath, Varanasi
10	V-S/17/011	Ashok biswas	Asadi biswas	9838945669	Sa 14/67a6 burla pur sarnath varanasi
11	V-S/17/012	Bachche lal	Phool chand ram	7860641957	SA 14/16 Baraipur sarnath varanasi
12	V-S/17/014	ABHILESH	RISHI NARAYAN	6306013075	BARAIPUR SARNATH VARANASI
13	V-S/17/015	KANHAIYA	LALTA	7705892275	SA 14/40 BARAIPUR SARNATH VARANASI
14	V-S/17/016	Raul pandey	Santos pandey	6307371403	Faridpur sarnath varanasi
15	V-S/17/017	Shanti devi	Nanduni ram	8528127080	Sa14/93 baraipur sarnath varanasi
16	V-S/17/018	Rohit jaiswal	Bobby jaiswal	7054625220	Sa13/48K4 khajuhi sarnath varanasi
17	V-S/17/019	Tinku jaiswal	Suraj jaiswal	8127758589	Khajuhi sarnath varanasi
18	V-S/17/020	JETENDRA BHARDWAJ	MOTI LAL	9936027454	BARAIPUR SARNATH VARANASI
19	V-S/17/022	Manoj Kumar bhardwaj	Kallu bhardwaj	9956016344	Sa14/18 baraipur sarnath varanasi
20	V-S/17/023	Krishan kumar	Ram murat	7071564965	SA-14/15 baraipur sarnath varanasi
21	V-S/17/025	sikkia begam	Abdul	8318204458	sa 14/63 khajuhi sarnath varanasi
22	V-S/17/026	Rambaba Kannojiya	Sukkhu Lal	9936302537	Sa 13/63 khajuhi Sarnath varanasi
23	V-S/17/028	dhani rajbhar	gopal rajbhar	9793154206	sa14/31_4 baraipur sarnath

यादव

SARNATH RAILWAY STATION ROAD(JAIN BOOK STALL SE DIET GATE TAK) COV

S.no	Vendor Code	Name of Street Vendor	Father Name	Contact No	Temp-Address
24	V-3/17/030	SURAMAN GUPTA	LALCHAND GUPTA	6392660072	HN 235 CHHAKHIN SULTANPUR SARNATH VARANASI 221007
25	V-3/17/033	Anshu bhardwaj	Gotuam bhardwaj	7068772004	SA 14/13 baraipur sarnath varanasi
26	V-3/17/034	Anju devi	Narottam bhardwaj	8528127090	Sa14/43 baraipur sarnath varanasi
27	V-3/17/035	Pintu gupta	Manbodh gupta	9628378715	Salarpur rausagarh Varanasi Uttar Pradesh
28	V-3/17/036	MANJU	RAM HARAT	7268886797	SA 14/37 SARNATH ROAD SARNATH
29	V-3/17/037	NARSINGH PANDEY	B D PANDEY	9839740894	SA 1346 G16 KHAJURI SARNATH VARANASI

D. Rishipattan Road



Sarnath Vendors List

Sr. No.	Name of Street Vendor	Father Name	Contact No
1	Munni	Chandrabali	7275288141
2	Ramji Pandey	Deenath Pandey	9956534860
3	Dinesh Sharma	Chhedilal Sharma	9935489368
4	Manish	Anil	8318829760
5	Arvind Prajapati	Ramchandra Prajapati	8318083800
6	Ramvriksh	Mallu	
7	Suraj	Lallu Prasad	
8	Ramchandra	Late Ram Modak Rajbhar	8853633378
9	Mahi	Somaru	
10	Pramod	Late Kailash	
11	Ravindra	Bhurya Lal	
12	Lallu	Jaggo Ranka	7275488928
13	Vijay Kumar	Bhagwati	8808230911
14	Kallu Rajbhar	Late Moti Lal	9565949253
15	Amarjeet Kumar Bind	Rajputi	8563924356
16	Krishna Mohan		9335835390
17	Jogendra Bind	Rajpati	8726424401
18	Bhudev Tiwari		8726153206
19	Hemramani		8334815611
20	Kallu	Durgabati	9956884312
21	Kalawati	Chhotak Ram	7880530616
22	Savitri Devi	Rajnath	
23	Kalawati	Dashrath Bhardwaj	8394801755
24	Arti Devi	Chander	
25	Rajesh Kumar	Gautam Bhardwaj	7068772934
26	Nanki Rajbhar	Ram Narayan Ram	9721441853
27	Rakesh Kumar	Shri Chand	9598377730
28	Sandeep	Niheri Rajbhar	9794345926
29	Pankaj Kumar	Ramjanm	8545843917
30	Rohit Kumar Jaiswal	Ramjatan	8545843917
31	Shyamdev Maurya	Bachchchan Prasad Jaiswal	6394190579
32	Dheeraj Patel	Sukkhu Ram Maurya	9695442267
33	Shiv Shankar	Suresh Patel	6396138725
34	Jitendra	Late Kashi Nath	8953953255
35	Virendra Kumar	Shankar	9565912436
36	Bugharn	Late Shiv Charan Ram	6388239508
37	Manoj	Radha	8004901767
38	Manoj Kuamr	Late Rajan	7350903546
39	Ajay Kumar	Pintu Yadav	9794896177
40	Dinesh Sharma	Ramsurat	8858841397
41	Raju	Radhe	
42	Arjun	Kutthan	
43	Anjani Tiwari	Buddhu Rajbhar	8564943125
44	Santosh Kumar Bind	Ajay Nath Tiwari	6738928109
45	Ajay Kumar	Late Lallan Bind	9795485675
46	Vishnu Shankar	Soggan Ram	8182065008
47	Pappu Chaudhary	Late Chhedi Lal	7518681161
48	Sooraj Kumar	Munga Lal Chaudhary	7785881976
49	Sonu Kumar	Rajesh Kumar	7236949280
50	Rakesh Kumar	Mookhand	9559108693
51	Somaru	Bhaiyalal	8563910683
52	Shyam Lal Gupta	Rajaram	7849042914
53	Ram Lakh Maurya	Late Shoti Lal	7800455832
54	Pappu Chaudhary	Badri Prasad	9455832712
55	Ajay Kumar Bhardwaj	Ram Moorat	8756023449
56	Pramod Jaiswal	Komal Bhardwaj	
57	Harish Chandra	Moti	8840103060
58	Mohammad Salauddin	Jawahir	9616233237
59	Shyam Lal		7651991531
		Late Mallu Yadav	8112502008

City Manager
City Mission Management Unit
Dada, Varanasi

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Sarnath Vendors List

Sr. No.	Name of Street Vendor	Father Name	Contact No
60	Karan	Bulatan Chouhan	8726627349
61	Kishan Vishwakarma	Bablu Vishwakarma	7652049008
62	Ajay Maurya	Indra Dev Maurya	9904951483
63	Rajkumar	Mata Prasad	8858219027
64	Vikash Maurya		
65	Sanjay		8009461565
66	Vinod Sharma	Late Hari Sharma	8574279756
67	Dreelip Kumar	Late Pyare Lal	9651862244
68	Radheshyam	Shiv Narayan	7007631388
69	Sikander	Satya Narayan	7007631388
70	Rajkumar Sharma	Shankar Sharma	
71	Bhullen	Pattar	
72	Dinesh Kumar Yadav	Ghurahu Yadav	9919941670
73	Moti Chand	Late Ramman	8239242737
74	Yogesh Singh	Rukdeep Singh	9651408350
75	Moti Vishwakarma		
76	Pappu Prasad	Late Narayan Prasad	8808057680
77	Shanti	Late Chhavi Nath Rajbhar	
78	Randeep Pasad Gautam	Patiram	7887057157
79	Kamala Devi	Late Pancham	6391175857
80	Gopal	Pancham	9793154206
81	Bechu Rajbhar	Late Chhavi Nath Rajbhar	8127502425
82	Mahesh	Chhavi Nath	9140333177
83	Sooraj	Late Prem Nath	8423306788
84	Ganesh	Late Chhavi Nath Rajbhar	8423306788
85	Oijay Kumar	Brijlal	8545844236
86	Munna Devi		9103817273
87	Jaishankar	Late Nakkhu	6394376115
88	Shara Devi	Ramesh	
89	Shanti Devi	Late Narottam	
90	Pappu Shankar	Late Shankar Ram	8887848897
91	Laxman Yadav		
92	Rishi Narayan	Late Lalchand	9839592210
93	Rajesh	Late Dubare	
94	Deepak	Pancham	9198970025
95	Bhaiya Lal	Late Shambhu Nath	8565968561

City Mission Manager
City Mission Management Unit
Duda, Varanasi

List of Potential Affected Persons

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S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
1	Museum Tiraha	Sarnath Chauraha	Kallu	M	Motilal	OBC	300	Covered Cart		Handicraft
2	Museum Tiraha	Sarnath Chauraha	Dilip Kumar	M	Jitendara Kumar	SC	400	Covered Cart	SC	Handicraft
3	Museum Tiraha	Sarnath Chauraha	Santosh Kumar Bind	M	LT. Lallan Bind	SC	400	Cabin	SC	Snacks
4	Museum Tiraha	Sarnath Chauraha	Virendra Kumar	M	Shivcharan	SC	400	Covered Cart	SC	Juice/Ice-cream
5	Museum Tiraha	Sarnath Chauraha	Bechu	M	Bahadur	SC	300	Covered Cart	SC	Toys
6	Museum Tiraha	Sarnath Chauraha	Manoj Kumar	M	LT. Babulal	SC	300	Covered Cart	SC	Handicraft
7	Museum Tiraha	Sarnath Chauraha	Ravi Shankar	M	Harishchandra	OBC	300	Covered Cart		Handicraft
8	Museum Tiraha	Sarnath Chauraha	Virendra Bhardawaj	M	Chotu Rajbhar	OBC	400	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
9	Museum Tiraha	Sarnath Chauraha	Mahendara Bhardawaj	M	Sindhu Ram	OBC	500	Covered Cart		Handicraft
10	Museum Tiraha	Sarnath Chauraha	Rajesh Kumar	M	Harishchandra	OBC	300	Covered Cart		Handicraft
11	Museum Tiraha	Sarnath Chauraha	Ajay Kumar	M	Radheshayam	OBC	500	Covered Cart		Handicraft
12	Museum Tiraha	Sarnath Chauraha	Sonu	M	Mulchand	OBC	600	Covered Cart		Handicraft
13	Museum Tiraha	Sarnath Chauraha	Pankaj	M	Rajaram	OBC	300	Covered Cart		Handicraft
14	Museum Tiraha	Sarnath Chauraha	Pappu Rajbhar	M	Rammurat Rajbar	OBC	300	Covered Cart		Handicraft
15	Museum Tiraha	Sarnath Chauraha	Rammurat	M	Madhika Rajbhar	OBC	300	Covered Cart		Handicraft
16	Museum Tiraha	Sarnath Chauraha	Gobind Bhardwaj	M	Somaru	OBC	400	Covered Cart		Handicraft
17	Museum Tiraha	Sarnath Chauraha	Suresh Bardwaj	M	Surajbali	OBC	500	Open Cart		Fruit & Vegetable
18	Museum Tiraha	Sarnath Chauraha	Gopal Rajbar	M	Panacham Ram	OBC	400	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
19	Museum Tiraha	Sarnath Chauraha	Aniket Kumar	M	Manoj Kumar	OBC	400	Open Cart		Fruit & Vegetable
20	Museum Tiraha	Sarnath Chauraha	Chanda Devi	F	Manoj Kumar	OBC	300	Covered Cart	FHH	Handicraft
21	Museum Tiraha	Sarnath Chauraha	Suraj Kumar	M	Prem Nath	OBC	500	Covered Cart		Snacks
22	Museum Tiraha	Sarnath Chauraha	Ganesh Rajbar	M	Chhawinath	OBC	400	Covered Cart		Handicraft
23	Museum Tiraha	Sarnath Chauraha	Chotelal Yadav	M	Batuk Lal Yadav	OBC	300	Cabin		Tea Shop
24	Museum Tiraha	Sarnath Chauraha	Ashok Bind	M	Lallan Bind	OBC	300	Cabin		Snacks
25	Museum Tiraha	Sarnath Chauraha	Manoj Kumar	M	Rajendra Parasad	OBC	500	Cabin		Tea Shop
26	Museum Tiraha	Sarnath Chauraha	Kirinmohan Kumar	M	Rambrikchh Ram	SC	400	Covered Cart	SC	Juice/Ice-cream
27	Museum Tiraha	Sarnath Chauraha	Chandmohan Mishra	M	Ganga Parsad Misra	GEN	200	Covered Cart		Juice/Ice-cream
28	Museum Tiraha	Sarnath Chauraha	Rekha Devi	F	Rajesh Rajbhar	OBC	400	Open Cart	FHH	Juice/Ice-cream

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
29	Museum Tiraha	Sarnath Chauraha	Malti Devi	F	Somaru Ram	OBC	300	Open Cart	FHH	Fruit & Vegetable
30	Museum Tiraha	Sarnath Chauraha	Somaru Ram	M	Khiru Ram	OBC	300	Open Cart		Ground Nuts
31	Museum Tiraha	Sarnath Chauraha	Lallu Bhardwaj	M	Kanta Bardwaj	OBC	200	Open Cart		Ground Nuts
32	Museum Tiraha	Sarnath Chauraha	Harishankar Raj	M	Rammurat Rajbar	OBC	400	Covered Cart		Handicraft
33	Museum Tiraha	Sarnath Chauraha	Dharmedar Kumar	M	Ram Singh	SC	500	Covered Cart	SC	Juice/Ice-cream
34	Museum Tiraha	Sarnath Chauraha	Jitendra	M	Shankar	OBC	300	Cabin		Snacks
35	Museum Tiraha	Sarnath Chauraha	Rakesh Rajbhar	M	Nihori	OBC	500	Covered Cart		Handicraft
36	Museum Tiraha	Sarnath Chauraha	Ghansyam	M	Prabhash Ram	SC	400	Open Cart	SC	Juice/Ice-cream
37	Museum Tiraha	Sarnath Chauraha	Sandeep Rajbhar	M	Ramjatan	OBC	300	Covered Cart		Handicraft
38	Museum Tiraha	Sarnath Chauraha	Jogendar	M	Devnath	OBC	300	Footpath		Tatoo
39	Museum Tiraha	Sarnath Chauraha	Pankaj	M	Ramjatan	OBC	400	Footpath		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
40	Museum Tiraha	Sarnath Chauraha	Rohit Jaiswal	M	Bachan Jaiswal	OBC	400	Covered Cart		Handicraft
41	Museum Tiraha	Sarnath Chauraha	Dhiraj Kumar Patel	M	Suresh Patel	OBC	400	Covered Cart		Handicraft
42	Museum Tiraha	Sarnath Chauraha	Ajay Bhardwaj	M	Kamla Parsad	OBC	400	Covered Cart		Handicraft
43	Museum Tiraha	Sarnath Chauraha	Syamdev Maurya	M	Shukhuram	OBC	400	Covered Cart		Fancy/Cosmetics
44	Museum Tiraha	Sarnath Chauraha	Vijay Rajbhar	M	Chedi Rajbhar	OBC	500	Covered Cart		Handicraft
45	Museum Tiraha	Sarnath Chauraha	Ajay Kumar	M	Saggan Ram	OBC	500	Covered Cart		Handicraft
46	Museum Tiraha	Sarnath Chauraha	Parkash Chand	M	Babulal	OBC	400	Covered Cart		Handicraft
47	Museum Tiraha	Sarnath Chauraha	Surendar Rajbhar	M	Mulchand	OBC	500	Covered Cart		Handicraft
48	Museum Tiraha	Sarnath Chauraha	Sunil Kumar	M	Ashok Kumar	OBC	500	Covered Cart		Handicraft
49	Museum Tiraha	Sarnath Chauraha	Ram Sahare	M	Harishchandra	OBC	400	Covered Cart		Handicraft
50	Museum Tiraha	Sarnath Chauraha	Santosh Kumar	M	Bhagwan Das	OBC	500	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
51	Museum Tiraha	Sarnath Chauraha	Rajesh Kumar	M	Saggan Ram	OBC	500	Covered Cart		Handicraft
52	Museum Tiraha	Sarnath Chauraha	Dharmedar Kumar	M	Chatthu Rajbhar	OBC	300	Open Cart		Fruit & Vegetable
53	Museum Tiraha	Sarnath Chauraha	Vijay Kumar	M	Saggan Ram	OBC	500	Covered Cart		Handicraft
54	Museum Tiraha	Sarnath Chauraha	Raju	M	Rajaram	OBC	500	Open Cart		Ground Nuts
55	Museum Tiraha	Sarnath Chauraha	Sunil Rajbhar	M	Rajesh Rajbhar	OBC	500	Covered Cart		Handicraft
56	Museum Tiraha	Sarnath Chauraha	Vijay Shankar	M	Chedi Lal	OBC	400	Covered Cart		Handicraft
57	Museum Tiraha	Sarnath Chauraha	Raju Rajbhar	M	Nandu	OBC	500	Covered Cart		Handicraft
58	Museum Tiraha	Sarnath Chauraha	Pappu Chaudri	M	Mungalal	OBC	300	Covered Cart		Juice/Ice-cream
59	Museum Tiraha	Sarnath Chauraha	Gorakh Parjapati	M	Buddhu Parjapati	OBC	500	Open Cart		Juice/Ice-cream
60	Museum Tiraha	Sarnath Chauraha	Ram Brikchh	M	Mallu Bhardwaj	OBC	300	Covered Cart		Handicraft
61	Museum Tiraha	Sarnath Chauraha	Ajay Kumar	M	Rammurat Rajbar	OBC	300	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
62	Museum Tiraha	Sarnath Chauraha	Pramod Jaisawal	M	Motilal Jaisawal	OBC	300	Covered Cart		Snacks
63	Museum Tiraha	Sarnath Chauraha	Salim	M	Nashruddin	OBC	500	Cabin		Handicraft
64	Museum Tiraha	Sarnath Chauraha	Raju	M	Rajkumar	OBC	400	Covered Cart		Snacks
65	Museum Tiraha	Sarnath Chauraha	Suraj Kumar	M	Rajesh	OBC	600	Covered Cart		Handicraft
66	Museum Tiraha	Sarnath Chauraha	Ramadhar Parjapati	M	Buddhu Parjapati	OBC	500	Covered Cart		Handicraft
67	Museum Tiraha	Sarnath Chauraha	Yogendar	M	Rajpati	OBC	200	Cabin		Snacks
68	Museum Tiraha	Sarnath Chauraha	Gurucharan Parjapati	M	Ram Karan Parjapati	OBC	400	Covered Cart		Handicraft
69	Museum Tiraha	Sarnath Chauraha	Sashikant Rai	M	Sadanand	OBC	400	Covered Cart		Handicraft
70	Museum Tiraha	Sarnath Chauraha	Anjani Tiwari	M	Ajay Nath Tiwari	GEN	300	Covered Cart		Handicraft
71	Museum Tiraha	Sarnath Chauraha	Teichacriyane Alijabethe	F	Nehru Lal	OBC	500	Footpath	FHH	Office

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
72	Museum Tiraha	Sarnath Chauraha	Ramchand Bhardwaj	M	Ram Murat	OBC	300	Covered Cart		Handicraft
73	Museum Tiraha	Sarnath Chauraha	Jitedra Bhardwaj	M	Motilal	OBC	400	Covered Cart		Handicraft
74	Museum Tiraha	Sarnath Chauraha	Subhash Bhardwaj	M	Rajedara Parasad	OBC	400	Covered Cart		Handicraft
75	Museum Tiraha	Sarnath Chauraha	Somaru	M	Pancham	OBC	300	Covered Cart		Handicraft
76	Museum Tiraha	Sarnath Chauraha	Narayan Parsad	M	Ramsurat	OBC	300	Covered Cart		Handicraft
77	Museum Tiraha	Sarnath Chauraha	Saroj Bhardwaj	M	Lallu Bhardwaj	OBC	300	covered Cart		Handicraft
78	Museum Tiraha	Sarnath Chauraha	Rajesh Rajbhar	M	Ram Dular	OBC	400	Covered Cart		Snacks
79	Museum Tiraha	Sarnath Chauraha	Manish Rajbhar	M	Ramsundar	OBC	400	Covered Cart		Handicraft
80	Museum Tiraha	Sarnath Chauraha	Govind	M	Ramdulare	OBC	400	Covered Cart		Snacks
81	Museum Tiraha	Sarnath Chauraha	Pappu Sankar	M	Shankar Bhardwaj	OBC	500	Covered Cart		Snacks

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
82	Museum Tiraha	Sarnath Chauraha	Manoj Kumar	M	Fikhu	OBC	300	Covered Cart		Handicraft
83	Museum Tiraha	Sarnath Chauraha	Ram Avadh Yadav	M	Shankar	OBC	300	Covered Cart		Handicraft
84	Museum Tiraha	Sarnath Chauraha	Chandan	M	Shambhu	OBC	300	Covered Cart		Snacks
85	Museum Tiraha	Sarnath Chauraha	Vijay Gupta	M	Bhagwati Gupta	OBC	300	Covered Cart		Juice/Ice-cream
86	Museum Tiraha	Sarnath Chauraha	Ranh Dhir Parsad	M	Patiram	SC	300	Covered Cart	SC	Juice/Ice-cream
87	Museum Tiraha	Sarnath Chauraha	Radha Devi	F	Rajnarayan Yadav	OBC	300	Cabin	FHH	Paan/Cigarette
88	Museum Tiraha	Sarnath Chauraha	Ashok Kumar	M	Dharwaru	OBC	300	Covered Cart		Fancy/Cosmetics
89	Museum Tiraha	Sarnath Chauraha	Sadabrich Bhardwaj	M	Lal Ji	OBC	400	Covered Cart		Handicraft
90	Museum Tiraha	Sarnath Chauraha	Raju	M	Vishnu	OBC	400	covered Cart		Handicraft
91	Museum Tiraha	Sarnath Chauraha	Ranjit	M	Babulal	OBC	500	Covered Cart		Handicraft
92	Museum Tiraha	Sarnath Chauraha	Munna Gupta	M	Hira Lal	OBC	300	Covered Cart		Juice/Ice-cream

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
93	Museum Tiraha	Sarnath Chauraha	Anil Kumar	M	Santosh Kumar	OBC	400	Covered Cart		Handicraft
94	Museum Tiraha	Sarnath Chauraha	Jay Lal Rajbhar	M	Tufani	OBC	300	Covered Cart		Snacks
95	Museum Tiraha	Sarnath Chauraha	Rajesh	M	Ram Narayan	OBC	500	Cabin		Paan/Cigarette
96	Museum Tiraha	Sarnath Chauraha	Hiramani Devi	F	Surajbali	OBC	400	Open Cart	FHH	Fruit & Vegetable
97	Museum Tiraha	Sarnath Chauraha	Arti Bhardwaj	F	Gautam Bhardwaj	OBC	300	Cabin	FHH	Paan/Cigarette
98	Museum Tiraha	Sarnath Chauraha	Tinku Rajbhar	M	Bachau Rajbhar	OBC	400	Cabin		Handicraft
99	Museum Tiraha	Sarnath Chauraha	Nirmla Devi	F	Bhikhu	OBC	200	Open Cart	FHH	Poster
100	Museum Tiraha	Sarnath Chauraha	Kalawati Devi	F	Rajnath Bhardwaj	OBC	300	Open Cart	FHH	Fruit & Vegetable
101	Museum Tiraha	Sarnath Chauraha	Lalmani Devi	F	Sankar Rajbhar	OBC	400	Open Cart	FHH	Fruit & Vegetable
102	Museum Tiraha	Sarnath Chauraha	Basmati Devi	F	Basantu	OBC	300	Open Cart	FHH	Fruit & Vegetable
103	Museum Tiraha	Sarnath Chauraha	Manoj Kumar	M	Syam Sundar	OBC	400	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
104	Museum Tiraha	Sarnath Chauraha	Ravindra Rajbhar	M	Bhaiyalal	OBC	400	Covered Cart		Handicraft
105	Museum Tiraha	Sarnath Chauraha	Kallu	M	Chotak	SC	200	Footpath	SC	Cobbler
106	Museum Tiraha	Sarnath Chauraha	Vinod	M	Lalli	OBC	300	Open Cart		Toys
107	Museum Tiraha	Sarnath Chauraha	Dipak Bhardwaj	M	Vinod Bhardwaj	OBC	300	Covered Cart		Handicraft
108	Museum Tiraha	Sarnath Chauraha	Buddu Ram	M	Chotelal	OBC	300	Covered Cart		Fancy/Cosmetics
109	Museum Tiraha	Sarnath Chauraha	Suresh Kumar	M	Hanuman Das	OBC	500	Covered Cart		Snacks
110	Museum Tiraha	Sarnath Chauraha	Rajesh Kumar	M	Rajaaram	OBC	300	Covered Cart		Juice/Ice-cream
111	Museum Tiraha	Sarnath Chauraha	Kanhiya Lal	M	Ramsurat	OBC	400	Covered Cart		Handicraft
112	Museum Tiraha	Sarnath Chauraha	Kanhiya Rai	M	Rajendar Rajbahr	OBC	400	Covered Cart		Handicraft
113	Museum Tiraha	Sarnath Chauraha	Komal	M	Sriram	OBC	300	Covered Cart		Handicraft
114	Museum Tiraha	Sarnath Chauraha	Rakesh Kumar	M	Bhaiyalal	OBC	300	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
115	Museum Tiraha	Sarnath Chauraha	Saggan Ram	M	Achebar	OBC	400	Covered Cart		Handicraft
116	Museum Tiraha	Sarnath Chauraha	Tufani Rajbhar	M	Motichand	OBC	300	Covered Cart		Handicraft
117	Museum Tiraha	Sarnath Chauraha	Lalak Rajbhar	M	Srichand Rajbhar	OBC	400	Cabin		Paan/Cigarette
118	Museum Tiraha	Sarnath Chauraha	Dinesh Sharma	M	Chedi Lal Sharma	OBC	300	Cabin		Barber
119	Museum Tiraha	Sarnath Chauraha	Bechu Lal Rajbhar	M	Chhavinath Rajbhr	OBC	400	Covered Cart		Snacks
120	Museum Tiraha	Sarnath Chauraha	Nandu Seth	M	Kashi Nath Seth	OBC	600	Covered Cart		Fancy/Cosmetics
121	Museum Tiraha	Sarnath Chauraha	Om Parkash Modnawal	M	Shambhu Nath	OBC	500	Covered Cart		Snacks
122	Museum Tiraha	Sarnath Chauraha	Raju	M	Vijay Parsad	OBC	400	Covered Cart		Snacks
123	Museum Tiraha	Sarnath Chauraha	Ajay Bhardwaj	M	Keshav Bhardwaj	OBC	400	Covered Cart		Handicraft
124	Museum Tiraha	Sarnath Chauraha	Sitara Devi	F	Ramesh Chand	OBC	300	Covered Cart	FHH	Fancy/Cosmetics

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
125	Museum Tiraha	Sarnath Chauraha	Jatashankar Rajbhar	M	Nanku	OBC	500	Cabin		Paan/Cigarette
126	Museum Tiraha	Sarnath Chauraha	Shivsankar Bharadwaj	M	Kashi Nath Rajbhar	OBC	300	Covered Cart		Snacks
127	Museum Tiraha	Sarnath Chauraha	Diljas Kumar	M	Brijlal	OBC	300	covered Cart		Juice/Ice-cream
128	Museum Tiraha	Sarnath Chauraha	Shanti Devi	M	Narottam	OBC	300	Open Cart		Ground Nuts
129	Museum Tiraha	Sarnath Chauraha	Ramlalit	M	Badri	OBC	500	Covered Cart		Handicraft
130	Museum Tiraha	Sarnath Chauraha	Amarjeet Bind	M	Rajpati	OBC	300	Cabin		Snacks
131	Museum Tiraha	Sarnath Chauraha	Dina Bhardwaj	M	Ramasankar	OBC	500	Covered Cart		Handicraft
132	Museum Tiraha	Sarnath Chauraha	Susama Devi	F	Uma Bhardwaj	OBC	400	Open Cart	FHH	Fruit & Vegetable
133	Museum Tiraha	Sarnath Chauraha	Buddhiram Bind	M	Radhe	OBC	200	Cabin		Snacks
134	Museum Tiraha	Sarnath Chauraha	Munni Devi	F	Chandrabali	OBC	400	Open Cart	FHH	Fruit & Vegetable

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
135	Museum Tiraha	Sarnath Chauraha	Kalawati Devi	F	Channar	OBC	300	Open Cart	FHH	Fruit & Vegetable
136	Museum Tiraha	Sarnath Chauraha	Gurubachan Gupta	M	Pardeep Gupta	OBC	400	Open Cart		Watch shop
137	Museum Tiraha	Sarnath Chauraha	Lalu	M	Munna Lal	OBC	400	Covered Cart		Handicraft
138	Museum Tiraha	Sarnath Chauraha	Gulu	M	Majanu	OBC	400	Covered Cart		Handicraft
139	Museum Tiraha	Sarnath Chauraha	Mitai	M	Motilal	OBC	300	Open Cart		Fruit & Vegetable
140	Museum Tiraha	Sarnath Chauraha	Vahoda Begam	F	Mohammad Khalil Khan	GEN	500	covered Cart	FHH	Handicraft
141	Museum Tiraha	Sarnath Chauraha	Samsher Rajbhar	M	Misri Lal	OBC	400	Covered Cart		Handicraft
142	Museum Tiraha	Sarnath Chauraha	Sajan Bhardwaj	M	Ramji	OBC	400	Covered Cart		Handicraft
143	Museum Tiraha	Sarnath Chauraha	Lalchand Jain	M	Bdari Prasad Jain	GEN	400	Covered Cart		Handicraft
144	Museum Tiraha	Sarnath Chauraha	Adarsh Pandey	M	Ram Ji pandey	GEN	300	Cabin		Tea Shop

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
145	Museum Tiraha	Sarnath Chauraha	Ram ji Pandey	M	Devnath Pandey	GEN	400	Footpath		Snacks
146	Museum Tiraha	Sarnath Chauraha	Tara Devi	F	Santosh Kumar	OBC	500	Covered Cart	FHH	Snacks
147	Museum Tiraha	Sarnath Chauraha	Rahit Kumar Maurya	M	Hira Lal Maurya	OBC	300	Open Cart		Juice/Ice-cream
148	Museum Tiraha	Sarnath Chauraha	Rohit Bhardwaj	M	Banarasi Bhardwaj	OBC	300	Covered Cart		Handicraft
149	Museum Tiraha	Sarnath Chauraha	Anil Gupta	M	Shankar Lal	OBC	500	Covered Cart		Snacks
150	Museum Tiraha	Sarnath Chauraha	Meera Devi	M	Tufani Rajbhar	OBC	300	Covered Cart		Handicraft
151	Museum Tiraha	Sarnath Chauraha	Parwati	F	Pancham Rajbhar	OBC	400	Covered Cart	FHH	Handicraft
152	Museum Tiraha	Sarnath Chauraha	Sani Bhardwaj	M	Moti Chand	OBC	400	covered Cart		Handicraft
153	Museum Tiraha	Sarnath Chauraha	Chhotu	M	Ramnath	OBC	300	Covered Cart		Garments

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
154	Museum Tiraha	Sarnath Chauraha	Om Prakash	M	Bhagwan Das	OBC	400	Covered Cart		Handicraft
155	Museum Tiraha	Sarnath Chauraha	Sunil Kumar	M	Rajendra Parasad	OBC	500	Covered Cart		Handicraft
156	Museum Tiraha	Sarnath Chauraha	Suresh Bhardwaj	M	Nihori Lal	OBC	500	Covered Cart		Handicraft
157	Museum Tiraha	Sarnath Chauraha	Ram Lochan	M	Aganu Rajbhar	OBC	300	Open Cart		Toys
158	Museum Tiraha	Sarnath Chauraha	Anil Rajbhar	M	Ram Lochan	OBC	300	Covered Cart		Handicraft
159	Museum Tiraha	Sarnath Chauraha	Somaru	M	Raja Ram	OBC	500	Covered Cart		Handicraft
160	Museum Tiraha	Sarnath Chauraha	Shivsankar Bhardwaj	M	Chhedi Lal	OBC	500	Covered Cart		Handicraft
161	Museum Tiraha	Sarnath Chauraha	Dipak Shukla	M	Uma Sankar Shukla	OBC	400	Covered Cart		Handicraft
162	Museum Tiraha	Sarnath Chauraha	Vishnu Sanakar	M	Chhedi Lal Rajbhar	OBC	500	Covered Cart		Handicraft
163	Museum Tiraha	Sarnath Chauraha	Shiv Lal	M	Videshi Ram	OBC	300	Covered Cart		Handicraft
164	Museum Tiraha	Sarnath Chauraha	Bhudev Tiwari	M	Radhe Shyam	OBC	300	Covered Cart		Juice/Ice-cream

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
165	Museum Tiraha	Sarnath Chauraha	Pappu Lal	M	Suddhu Parjapati	OBC	300	Covered Cart		Juice/Ice-cream
166	Museum Tiraha	Sarnath Chauraha	Lakshmi Sankar	M	Chhedi Lal	OBC	400	Covered Cart		Handicraft
167	Museum Tiraha	Sarnath Chauraha	Kutthan Bhardwaj	M	Narottam	OBC	200	Open Cart		Fruit & Vegetable
168	Museum Tiraha	Sarnath Chauraha	Kaju Kumar	M	Kutthan Bhardwaj	OBC	300	Covered Cart		Handicraft
169	Museum Tiraha	Sarnath Chauraha	Balindar Shah	M	Nagina Shah	ST	300	Covered Cart	ST	Snacks
170	Museum Tiraha	Sarnath Chauraha	Irshad Khan	M	Makbul Khan	GEN	400	Covered Cart		Handicraft
171	Museum Tiraha	Sarnath Chauraha	Gum Maya Thapa	M	Dilbahadur Thapa	OBC	300	Covered Cart		Snacks
172	Museum Tiraha	Sarnath Chauraha	Rajendar Parsad	M	Brahmdev singh	GEN	400	Covered Cart		Water Bottle
173	Museum Tiraha	Sarnath Chauraha	Lachaman Yadav	M	Mahadev Yadav	OBC	500	Cabin		Tea Shop

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
174	Museum Tiraha	Sarnath Chauraha	Ramchandra Parjapti	M	Suddhu Parjapati	OBC	400	Covered Cart		Handicraft
175	Museum Tiraha	Sarnath Chauraha	Ashok Kumar	M	Ransunnar	OBC	300	Covered Cart		Handicraft
176	Museum Tiraha	Sarnath Chauraha	Rishi Narayan	M	Lal Chand	OBC	300	Covered Cart		Handicraft
177	Museum Tiraha	Sarnath Chauraha	Vikki Parjapati	M	Pappu Lal Parjapati	OBC	400	Covered Cart		Handicraft
178	Museum Tiraha	Sarnath Chauraha	Malti Devi	M	Ram Sundar	OBC	300	Open Cart		Fruit & Vegetable
179	Museum Tiraha	Sarnath Chauraha	Raj Kumar	M	Mishri Lal	OBC	300	Covered Cart		
180	Museum Tiraha	Sarnath Chauraha	Anup Kumar	M	Mayanath	OBC	300	Open Cart		Fruit & Vegetable
181	Museum Tiraha	Sarnath Chauraha	Ram Bachan	M	Mithai Lal Rajbhar	OBC	400	Covered Cart		Handicraft
182	Museum Tiraha	Sarnath Chauraha	Shanti Devi	F	LT. Chhavi Nath	OBC	300	Covered Cart	FHH	Paan/Cigarette
183	Museum Tiraha	Sarnath Chauraha	Vijay Kumar Bharadwaj	M	Rajendra Parasad	OBC	400	Covered Cart		Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
184	Station Road	Station Road	Urmila Devi	F	Chhedi Lal Gond	ST	200	Open cart	FHH	Fruit & Vegetable
185	Station Road	Station Road	Parmod	M	Ram Sevak	OBC	400	Cabin		Barber
186	Station Road	Station Road	Munna Lal Kannujiya	M	Chillar Ram	OBC	400	Cabin		Washerman
187	Station Road	Station Road	Vikki Sharma	M	Ram Ji Sarma	OBC	400	Cabin		Barber
188	Station Road	Station Road	Akhilesh	M	Rishi Narayan	OBC	400	Covered cart		Snacks
189	Station Road	Station Road	Baij Nath	M	Pursottam	ST	300	open cart	ST	Fruit & Vegetable
190	Station Road	Station Road	Ache Lal	M	Nagadu	OBC	300	Covered cart		Snacks
191	Station Road	Station Road	Sanju Devi	F	Pradeep Kumar	OBC	200	Footpath	FHH	Potter
192	Station Road	Station Road	Sanagm Kumar	M	Lal Chandra	OBC	200	Cabin		Green Grocer
193	Station Road	Station Road	Amit Kumar Prajapati	M	Murari Lal Prajapati	OBC	300	Cabin		Paan/Cigarette
194	Station Road	Station Road	Rahul Pandey	M	Santosh Kumar Pandey	GEN	200	Cabin		General Store

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
195	Station Road	Station Road	Shravan Yadav	M	Bachchu Yadav	OBC	200	Cabin		Juice/Ice-cream
196	Station Road	Station Road	Rajkumar	M	Methai Lal	SC	300	Cabin	SC	Juice/Ice-cream
197	Station Road	Station Road	Ashok Viswash	M	Anandi Viswash	GEN	300	Cabin		Handicraft
198	Station Road	Station Road	Kallan	M	Nandlal Rajbhar	OBC	400	Cabin		Handicraft
199	Station Road	Station Road	Sukkhu Lal	M	Panaru	OBC	400	Cabin		Washerman
200	Station Road	Station Road	Manoj Kumar	M	Chedi Lal	OBC	300	Open cart		Fruit & Vegetable
201	Station Road	Station Road	Shiv Kumar Gond	M	Lalata Prasad	ST	300	Open cart	ST	Fruit & Vegetable
202	Station Road	Station Road	Roodal Gupta	M	Lt. Gangaram Gupta	OBC	200	Cabin		Paan/Cigarette
203	Station Road	Station Road	Jhanna Lal Jaiswal	M	Lt. Mevalal	OBC	400	Cabin		Tailor
204	Buddha Theme Park	Suheldev Tiraha	Dilip Bhardwaj	M	Syamji	OBC	300	Covered Cart		Snacks

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
205	Buddha Theme Park	Suheldev Tiraha	Shiv Parkash Modanwal	M	Shambhu Nath	OBC	400	Covered Cart		Snacks
206	Buddha Theme Park	Suheldev Tiraha	Dinesh Kumar	M	Raj Kumar	OBC	600	Covered Cart		Water Bottle
207	Buddha Theme Park	Suheldev Tiraha	Abhishek Yadav	M	Nandlal Yadav	OBC	400	Cabin		Juice/Ice-cream
208	Buddha Theme Park	Suheldev Tiraha	Nandlal Yadav	M	Ajay Yadav	OBC	600	Cabin		Tea Shop
209	Buddha Theme Park	Suheldev Tiraha	Ram Ji	M	Babu Nandan	OBC	200	Covered Cart		Water Bottle
210	Buddha Theme Park	Suheldev Tiraha	Virendra Bhardwaj	M	Chhatthu Rajbhar	OBC	600	Cabin		Fruit & Vegetable
211	Buddha Theme Park	Suheldev Tiraha	Suraj	M	Rambali	OBC	300	Covered Cart		Juice/Ice-cream
212	Buddha Theme Park	Suheldev Tiraha	Harish Chand	M	Ramman	OBC	300	Cabin		Tea Shop

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
213	Buddha Theme Park	Suheldev Tiraha	Mahadev	M	Ram Sahare	OBC	600	Covered Cart		Handicraft
214	Buddha Theme Park	Suheldev Tiraha	Vijay Kumar	M	Mannu	OBC	400	Open cart		Nuts and Beans
215	Buddha Theme Park	Suheldev Tiraha	Anil Rajbhar	M	Rajendra	OBC	600	Covered Cart		Handicraft
216	Buddha Theme Park	Suheldev Tiraha	surya nath	M	Birbal Yadav	OBC	300	Covered Cart		Handicraft
217	Buddha Theme Park	Suheldev Tiraha	Syam Lal	M	Malllu Yadav	OBC	200	Cabin		Paan/Cigarette
218	Buddha Theme Park	Suheldev Tiraha	Harishchandra	M	Jawahir	OBC	300	Covered Cart		Painter
219	Buddha Theme Park	Suheldev Tiraha	Sanjay Kumar	M	Sggan Ram	OBC	300	Covered Cart		Handicraft
220	Buddha Theme Park	Suheldev Tiraha	Teja Bahadur	M	Brijmohan	OBC	300	Cabin		Paan/Cigarette

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
221	Buddha Theme Park	Suheldev Tiraha	Meera Devi	M	Kaju Rajbhar	OBC	300	Open cart		Fruit & Vegetable
222	Buddha Theme Park	Suheldev Tiraha	Shushil Kumar Sarma	M	Shobha Nath	OBC	400	Cabin		Barber
223	Buddha Theme Park	Suheldev Tiraha	Priya Ratan	M	Nehru Lal	OBC	400	Covered Cart		Handicraft
224	Buddha Theme Park	Suheldev Tiraha	Tilak Ratana	M	Priya Ratan	OBC	400	Covered Cart		Handicraft
225	Buddha Theme Park	Suheldev Tiraha	Mahenadra Seth	M	Paras	OBC	300	Covered Cart		Juice/Ice-cream
226	Buddha Theme Park	Suheldev Tiraha	Ram Brikchh	M	Ramu Yadav	OBC	400	Cabin		Paan/Cigarette
227	Buddha Theme Park	Suheldev Tiraha	Mahendra	M	Shanakar	OBC	300	Open cart		Snacks
228	Buddha Theme Park	Suheldev Tiraha	Bindu Devi	F	Ramayan	OBC	400	Open cart	FHH	Handicraft

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
229	Buddha Theme Park	Suheldev Tiraha	Ram Avadh	M	Janardana	OBC	300	Cabin		Book Stall
230	Buddha Theme Park	Suheldev Tiraha	Gulab Chand Sonkar	M	Nandram	OBC	500	Covered Cart		Juice/Ice-cream
231	Buddha Theme Park	Suheldev Tiraha	Shakuntla	M	Shuddhu ram	OBC	200	Footpath		Water Bottle
232	Buddha Theme Park	Suheldev Tiraha	Munni Devi	M	Dukkhu Bharwaj	OBC	400	Cabin		Paan/Cigarette
233	Buddha Theme Park	Suheldev Tiraha	Kumari Devi	M	Pardeep	OBC	500	Covered Cart		Handicraft
234	Buddha Theme Park	Suheldev Tiraha	Amit Jaisawal	M	Sanjay Jaisawal	OBC	500	Covered Cart		Handicraft
235	Buddha Theme Park	Suheldev Tiraha	Kamla Viswakarma	M	Ram Kishun	OBC	300	Footpath		Wood Items
236	Buddha Theme Park	Suheldev Tiraha	Chandan Maurya	M	Bechan Maurya	OBC	500	Open cart		Juice/Ice-cream

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
237	Buddha Theme Park	Suheldev Tiraha	Jamuna Devi	F	Paras	OBC	300	Open cart	FHH	Nuts and Beans
238	Buddha Theme Park	Suheldev Tiraha	Parmila Devi	F	Anil	OBC	500	Covered Cart	FHH	Handicraft
239	Buddha Theme Park	Suheldev Tiraha	Manish Bhardwaj	M	Anil	OBC	500	Open cart		Fruit & Vegetable
240	Buddha Theme Park	Suheldev Tiraha	Rajendra Parsad	M	Sanai Ram	OBC	300	Cabin		Paan/Cigarette
241	Buddha Theme Park	Suheldev Tiraha	Arvind Parjapti	M	Ramchand Parjapati	OBC	300	Open cart		Juice/Ice-cream
242	Buddha Theme Park	Suheldev Tiraha	Sheela Devi	F	Kallu	OBC	300	Open cart	FHH	Fruit & Vegetable
243	Buddha Theme Park	Suheldev Tiraha	Manoj Kumar Maurya	M	Madan Maurya	OBC	400	Cabin		Snacks
244	Buddha Theme Park	Suheldev Tiraha	Ache Lal Yadav	M	Bihari Lal	OBC	500	Cabin		Snacks

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
245	Buddha Theme Park	Suheldev Tiraha	Syam Ji Yadav	M	Lachhman Yadav	OBC	500	Cabin		Tea Shop
246	Buddha Theme Park	Suheldev Tiraha	Geeta	F	Nandlal	OBC	300	Open cart	FHH	Fruit & Vegetable
247	Buddha Theme Park	Suheldev Tiraha	Shubhawati Devi	F	Lalchand	OBC	300	Covered Cart	FHH	Snacks
248	Buddha Theme Park	Suheldev Tiraha	Shiv Lal	M	Chhangur	OBC	300	Cabin		Paan/Cigarette
249	Buddha Theme Park	Suheldev Tiraha	Somara Devi	F	Lalchand	OBC	200	Open cart	FHH	Nuts and Beans
250	Buddha Theme Park	Suheldev Tiraha	Manju Devi	F	Shiv Poojan	OBC	400	Open cart	FHH	Fruit & Vegetable
251	Buddha Theme Park	Suheldev Tiraha	Aneeta Devi	F	Chhatthu Rajbhar	OBC	400	Open cart	FHH	Fruit & Vegetable
252	Buddha Theme Park	Suheldev Tiraha	Ram Ashish Maurya	M	Faudi Maurya	OBC	400	Covered Cart		Snacks

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
253	Buddha Theme Park	Suheldev Tiraha	Moti Chand	M	Ramman	OBC	300	Covered Cart		Tea Shop
254	Buddha Theme Park	Suheldev Tiraha	Raj Kumar	M	Shankar	OBC	300	Covered Cart		Snacks
255	Buddha Theme Park	Suheldev Tiraha	Ram Charan	M	Lal Ji	OBC	400	Cabin		Paan/Cigarette
256	Buddha Theme Park	Suheldev Tiraha	Vijay Yadav	M	Baddu	OBC	400	Covered Cart		Snacks
257	Buddha Theme Park	Suheldev Tiraha	Ramesh Kumar	M	Kallu Parsad	OBC	500	Cabin		Paan/Cigarette
258	Buddha Theme Park	Suheldev Tiraha	Kunta Devi	F	Ram Charan	OBC	200	Open cart	FHH	Nuts and Beans
259	Buddha Theme Park	Suheldev Tiraha	Ashok Kumar	M	Ram Charan	OBC	300	Open cart		Fruit & Vegetable
260	Buddha Theme Park	Suheldev Tiraha	Birbal Yadav	M	Ram Nihor Yadav	OBC	400	Cabin		Juice/Ice-cream

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
261	Buddha Theme Park	Suheldev Tiraha	Sanjiv Kumar	M	Birbal Yadav	OBC	300	Cabin		Tea Shop
262	Buddha Theme Park	Suheldev Tiraha	Chandravati	F	Ram Karan	OBC	200	Cabin	FHH	Tea Shop
263	Buddha Theme Park	Suheldev Tiraha	Gurubachan Parjapati	M	Ram Karan	OBC	200	Cabin		Paan/Cigarette
264	Buddha Theme Park	Suheldev Tiraha	Durgesh Kumar Rajbhar	M	Raj Kumar	OBC	600	Cabin		Paan/Cigarette
265	Buddha Theme Park	Suheldev Tiraha	Vinod Kumar	M	Kalicharan	OBC	300	Covered Cart		Snacks
266	Buddha Theme Park	Suheldev Tiraha	Dhanesh Kumar	M	Kailash Nath	OBC	300	Cabin		Barber
267	Buddha Theme Park	Suheldev Tiraha	Munib	M	Chhangur	OBC	300	Cabin		Repairing
268	Buddha Theme Park	Suheldev Tiraha	Syamu Rajbhar	M	Radhe Syam	OBC	300	Open cart		Fruit & Vegetable

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
269	Buddha Theme Park	Suheldev Tiraha	Jai Gopal	M	Rang Lal	GEN	200	Cabin		Egg Seller
270	Buddha Theme Park	Suheldev Tiraha	Ravindara	M	Shiv Lal	OBC	300	Cabin		Paan/Cigarette
271	Buddha Theme Park	Suheldev Tiraha	Sanku	M	Moti	OBC	200	Cabin		Snacks
272	Buddha Theme Park	Suheldev Tiraha	Sikandar	M	Satyanarayan	OBC	300	Covered Cart		Fruit & Vegetable
273	Buddha Theme Park	Suheldev Tiraha	Ram Ji	M	Moti	OBC	300	Open cart		Fruit & Vegetable
274	Buddha Theme Park	Suheldev Tiraha	Babloo Yadav	M	Rajju	OBC	300	Cabin		Tea Shop
275	Buddha Theme Park	Suheldev Tiraha	Munniya Devi	F	Ram Bali	OBC	500	Open cart	FHH	Nuts and Beans
276	Buddha Theme Park	Suheldev Tiraha	Sona Devi	F	Rajkumar	OBC	200	Open cart	FHH	Fruit & Vegetable

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
277	Buddha Theme Park	Suheldev Tiraha	Maya Nath	M	Sugriv	OBC	300	Open cart		Fruit & Vegetable
278	Buddha Theme Park	Suheldev Tiraha	Rajesh Kumar	M	Dev Nath	OBC	300	Cabin		Barber
279	Buddha Theme Park	Suheldev Tiraha	Pancham	M	Radhe Syam	OBC	300	Cabin		Repairing
280	Buddha Theme Park	Suheldev Tiraha	Mukesh	M	Heera Lal	OBC	500	Cabin		Repairing
281	Buddha Theme Park	Suheldev Tiraha	Mumtaj Ahamad	M	Abdul Ajeej	OBC	300	Cabin		Toy
282	Buddha Theme Park	Suheldev Tiraha	Bhaiya Lal	M	Shivratan	OBC	300	Open cart		Fruit & Vegetable
283	Buddha Theme Park	Suheldev Tiraha	Radhe Shyam	M	Shiv Narayan	OBC	600	Cabin		Paan/Cigarette
284	Buddha Theme Park	Suheldev Tiraha	Dinesh Yadav	M	Ghurahu	OBC	500	Cabin		Tea Shop

S.No.	Start Point	End Point	Name of the Affected Person	M/F	Name of Husband/ Father	Caste	Daily Income in Rs.	Details of Loss	Vulnerable	Business
285	Buddha Theme Park	Suheldev Tiraha	Bhullan	M	Pattar	OBC	300	Open cart		Fruit & Vegetable
286	Buddha Theme Park	Suheldev Tiraha	Rajendra Parsad	M	Raghunath Patel	OBC	400	Covered Cart		Handicraft

ANNEXURE 4: CONSENT TAKEN FROM VENDORS FOR SHIFTING IN VENDING ZONES

Consultation meeting with Roadside vendors was held and project scope and its objectives was discussed in details. It was informed that all the vendors listed in DUDA will be accommodated in vending zone that will be developed under this project.

We, vendors in Dharampala road are fully satisfied with the design and scope briefed by you, we have no objection to shift in the newly vending zones that will be developed under this project

Location

Date

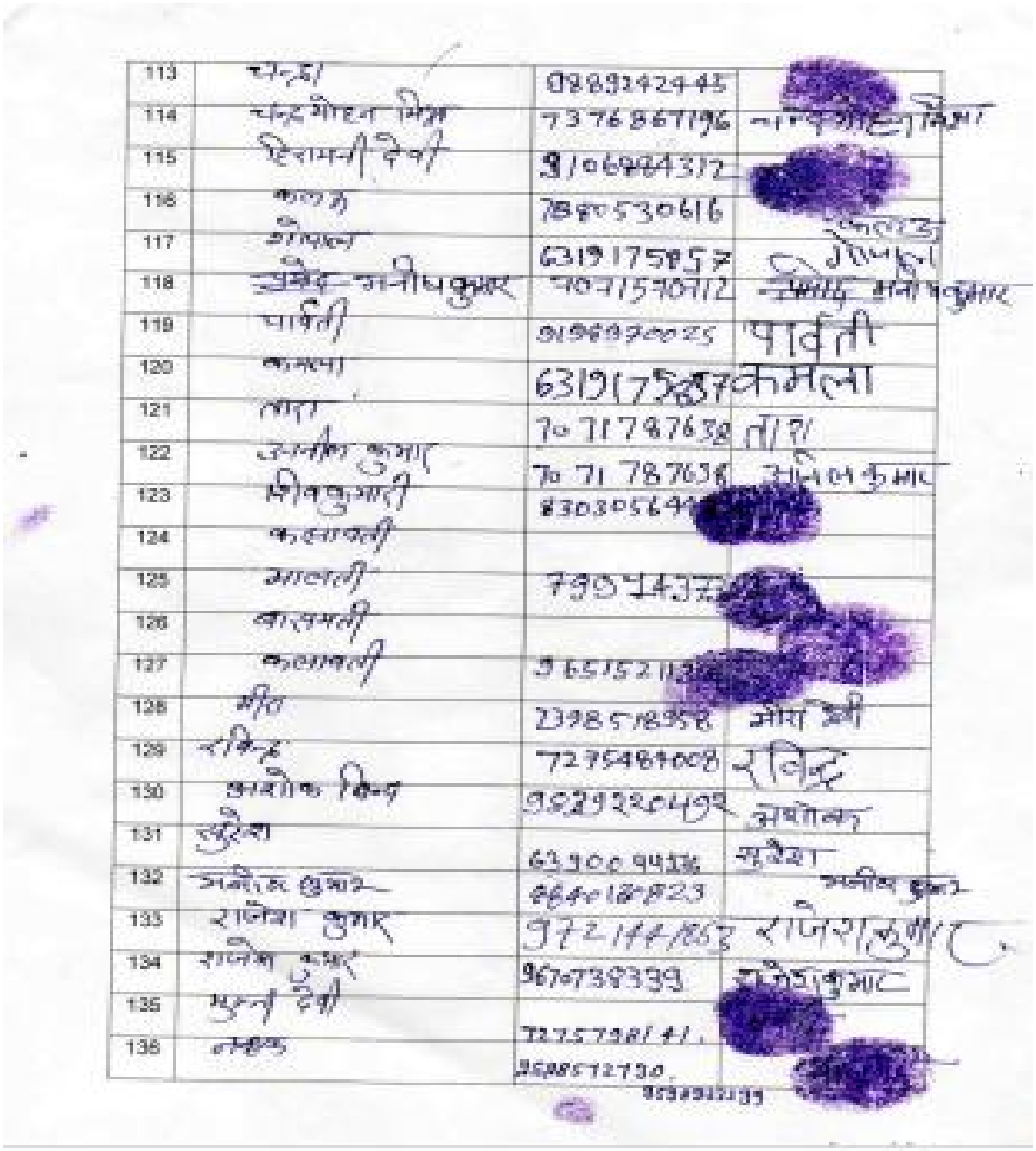
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27	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]
32	[illegible]	[illegible]	[illegible]
33	[illegible]	[illegible]	[illegible]
34	[illegible]	[illegible]	[illegible]
35	[illegible]	[illegible]	[illegible]
36	[illegible]	[illegible]	[illegible]
37	[illegible]	[illegible]	[illegible]
38	[illegible]	[illegible]	[illegible]
39	[illegible]	[illegible]	[illegible]
40	[illegible]	[illegible]	[illegible]

41	रामसूरत	8726027669	रामसूरत
42	मधु कुमार	8156231419	मधु कुमार
43	मुन्ना लाल गुप्ता	6388989232	मुन्ना गुप्ता
44	संदीप	8545843914	संदीप
45	पंकज कुमार	8545843917	पंकज कुमार
46	जोगेन्द्र कुमार	8090512649	जोगेन्द्र कुमार
47	हरि अग्रवाल	9634006040	हरि अग्रवाल
48	राजू गुप्ता	6393799385	राजू गुप्ता
49	रोहित अग्रवाल	6394199419	रोहित अग्रवाल
50	धर्मेन्द्र पटेल	6395113425	धर्मेन्द्र पटेल
51	प्रभुदेव गौर्या	9455492866	प्रभुदेव गौर्या
52	गोलू	6394007652	गोलू
53	गोलू	8112516883	गोलू
54	सलीम अख्तर	6388451205	सलीम अख्तर
55	राजीव	7677[illegible]934	राजीव
56	हरि शंकर	6392785528	
57	कुसुमा देवगण	9299242737	कुसुमा
58	राजन राम	9953966996	राजन राम
59	अजय अग्रवाल	9348680282	अजय अग्रवाल
60	[illegible] राजेश	9140093[illegible]	
61	रंजीत	7677177494	रंजीत
62	राम सहाय	7479189230	रामसहाय
63	सुनील	9635798754	सुनील
64	[illegible]	8128888891	सुनील

65	सुरेश कुमार शर्मा	9935939536	सुरेश कुमार शर्मा
66	सत्येंद्र पाठक	9415040813	सत्येंद्र पाठक
67	[illegible]	8294754015	[illegible]
68	[illegible]	8707[illegible]48	[illegible]
69	रघुनाथ कुमार [illegible]	9809976827	रघुनाथ कुमार [illegible]
70	[illegible]		
71	अंजली तिवारी	8738928180	अंजली तिवारी
72	[illegible]		
73	रामवीर [illegible]	9868404[illegible]836	रामवीर
74	विनय कुमार [illegible]	9807143490	विनय कुमार
75	नारायण [illegible]	9119604821	नारायण [illegible]
76	कपिल कुमार	8979236934	कपिल कुमार [illegible]
77	रामदुला कुमार	8172909277	रामदुला
78	[illegible]	6388364[illegible]91	[illegible]
79	अनुज कुमार	6205864139[illegible]	अनुज कुमार [illegible]
80	दिलीप कुमार	9865336[illegible]	
81	मिठाई लाल	7388386274	मिठाई
82	भानु कुमार	9648404130	भानु
83	रतन [illegible]	8563947[illegible]	रतन [illegible]
84	रामसनेही [illegible]	8303502959	रामसनेही
85	चन्दन	9120394466	चन्दन
86	बिरेन्द्र कुमार	6386236[illegible]	बिरेन्द्र कुमार
87	मनोज कुमार	9194836177	मनोज कुमार
88	दिपक कुमार	8[illegible]	दिपक [illegible]

89	निर्मला देवी	7965386	निर्मला
90	शुकनाचल	[illegible]	[illegible]
91	[illegible]	9656238480	[illegible]
92	मुख्तार सिंह	8004904727	
93	[illegible]	6387800238	[illegible]
94	सुदेव सिंगारी	8934811611	सुदेव सिंगारी
95	[illegible]	8953361255	[illegible]
96	[illegible]	9793521663	[illegible]
97	[illegible]	7782401419	[illegible]
98	सुषमा देवी	8004952644	[illegible]
99	[illegible]	7668400151	[illegible]
100	राधा देवी	8125401363	[illegible]
101	रेखा देवी	7785038839	रेखा
102	[illegible]	9115528869	[illegible]
103	[illegible]	3793046684	[illegible]
104	[illegible]	7785292712	[illegible]
105	मालती	8933964777	मालती
106	[illegible]	8933906177	[illegible]
107	[illegible]	9565045253	[illegible]
108	सुहाना	8800823653	[illegible]
109	[illegible]	8896542034	[illegible]
110	मनोज कुमार सिंह	8534411422	[illegible]
111	[illegible]	8127502415	[illegible]
112	[illegible]	9115394576	[illegible]



113	चन्द्रा	08893429445	
114	चन्द्र मोहन मिश्रा	7376867196	चन्द्र मोहन मिश्रा
115	हेरामनी देवी	9106884312	
116	कलावती	7880530616	कलावती
117	शोभनाथ	6319175857	शोभनाथ
118	[illegible] जगदीश कुमार	7033157077	[illegible] जगदीश कुमार
119	पार्वती	9569390025	पार्वती
120	कमला	6319175857	कमला
121	[illegible]	70 71787638	[illegible]
122	जगदीश कुमार	70 71 787638	जगदीश कुमार
123	शीतल कुमारी	8303056491	
124	कलावती		
125	मालती	7395943722	
126	बालमती		
127	कलावती	9655152113	
128	गीता	2398518958	गीता देवी
129	रविन्द्र	7275481008	रविन्द्र
130	जगदीश सिंह	9529325492	जगदीश
131	सुदेश	6300944136	सुदेश
132	जगदीश कुमार	8640187823	जगदीश कुमार
133	राजेश कुमार	9721447863	राजेश कुमार
134	राजेश कुमार	9670738339	राजेश कुमार
135	सुनन्दा देवी	7325738141	
136	[illegible]	9508572750	

137	दिनेश शर्मा	9935[illegible]368	दिनेश शर्मा
138	रामजी पाण्डेय	9554574860	रामजी पाण्डेय
139	लोकमणी	8127531938	[illegible]
140	मनोज कुमार	9695129015	मनोज कुमार
141	[illegible]	980786[illegible]	[illegible]
142	अरुण पाल	6390534885	[illegible]
143	[illegible]	6394376115	[illegible]
144	सविता देवी	9870115187	सविता
145	दीपक शर्मा	6394504988	Deepak
146	राजेन्द्र प्रसाद सिंह	7524013850	राजेन्द्र सिंह
147	[illegible]	9651504164	[illegible]
148	[illegible]	7844972018	[illegible]
149	[illegible]	9363597054	[illegible]
150	राकेश कुमार	7233846832	राकेश कुमार
151			
152			
153			

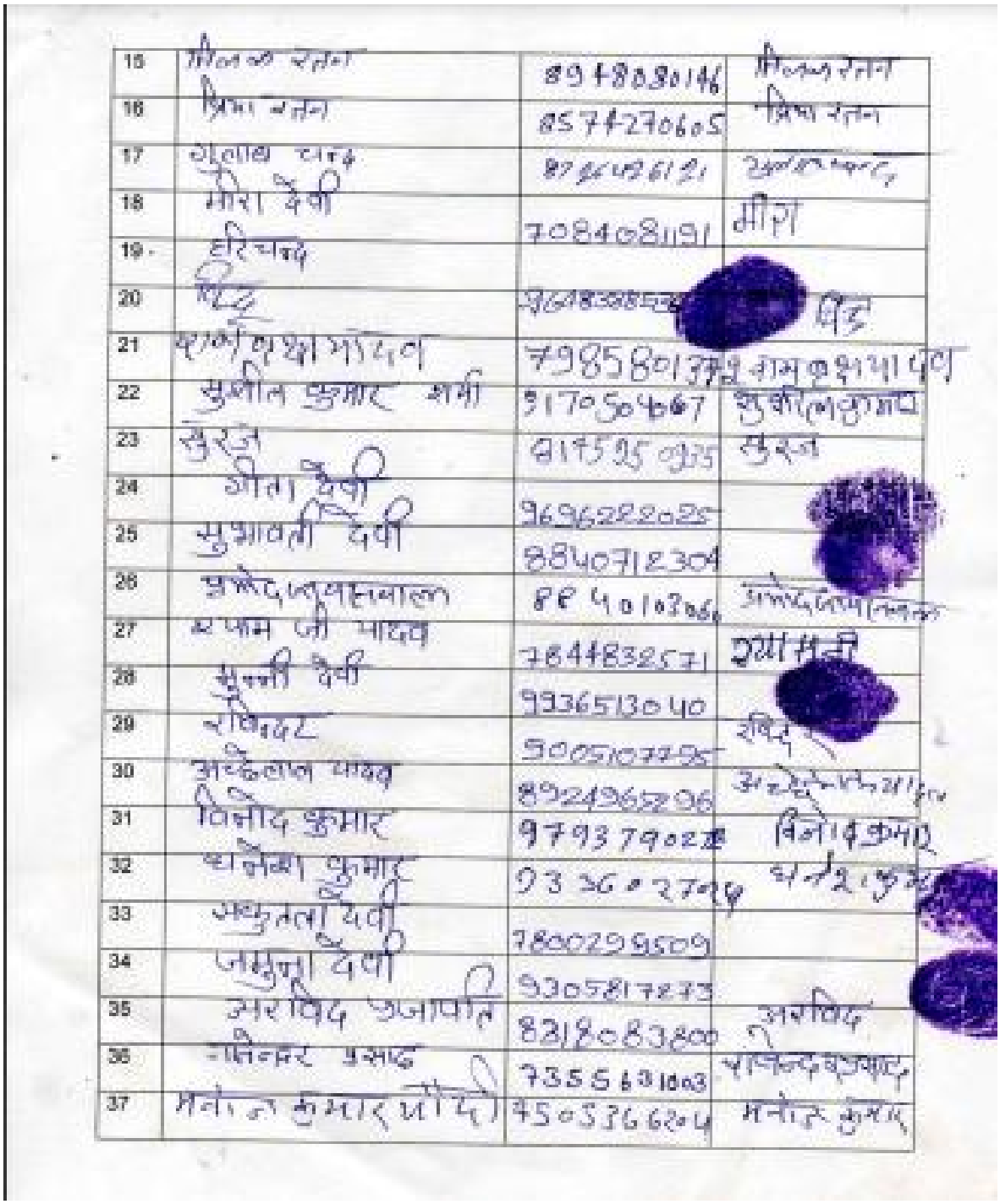
Consultation meeting with Roadside vendors was held and project scope and its objectives was discussed in details. It was informed that all the vendors listed in DUDA will be accommodated in vending zone that will be developed under this project.

We, vendors in Munari Road are fully satisfied with the design and scope briefed by you. we have no objection to shift in the newly vending zones that will be developed under this project

Location

Date

S.No	Name	Contact no	Signature
1	शीला देवी	7379784706	शीला
2	रामजी	6306455685	रामजी
3	चन्दन मौर्य	8853712326	चन्दन मौर्य
4	अमित	6378615605	Amit
5	रामचरण	8858307821	रामचरण
6	महिपत	9598372221	महिपत
7	राम अवध	9984956404	राम अवध
8	अखिलेश कुमार	8259686538	अखिलेश कुमार
9	महेन्द्र सेठ	9807884418	महेन्द्र सेठ
10	कमला विश्वकर्मा	9839260393	कमला विश्वकर्मा
11	सुनी देवी	7084647898	सुनी
12	मनीष	8303127356	मनीष
13	प्रमिला देवी	8381829760	प्रमिला
14	महेन्द्र राजभर	6352885986	महेन्द्र राजभर



15	नीलम रतन	8947830146	नीलम रतन
16	प्रिया रतन	8574270605	प्रिया रतन
17	गुलाब चन्द	8764026121	
18	मीरा देवी	7084081191	मीरा
19	हरिचन्द		
20	[illegible]	[illegible]	[illegible]
21	[illegible]	7985801378	[illegible]
22	सुशील कुमार शर्मा	9170504067	सुशीलकुमार
23	सुरजा	8175950375	सुरजा
24	गीता देवी	9696220225	
25	सुभावती देवी	8840718304	
26	[illegible]	8840103066	[illegible]
27	[illegible]	7844832571	[illegible]
28	सुन्नी देवी	9336513040	
29	रविन्द्र	9005107755	रविन्द्र
30	अच्छेलाल यादव	8924965296	[illegible]
31	विनोद कुमार	9793790228	विनोद कुमार
32	धनेश्वा कुमार	9336027019	[illegible]
33	अकुन्तला देवी	7800299509	
34	जमुना देवी	9305817273	
35	अरविंद प्रजापति	8218083800	अरविंद
36	राजेन्दर प्रसाद	7355631003	राजेन्द्र प्रसाद
37	मनोज कुमार मौर्य	7503736204	मनोज कुमार

38	[illegible]	8574392272	
39	[illegible]	9935377226	[illegible]
40	[illegible]	8357003076	[illegible]
41	[illegible]	7607631388	[illegible]
42	[illegible]	6306509593	[illegible]
43	[illegible]	6306509593	
44	[illegible]	7499734036	[illegible]
45	दुर्गेश कुमार	9170174473	दुर्गेश कुमार
46	दिनेश कुमार	9005966648	दिनेश कुमार
47	[illegible]	9936023961	[illegible]
48	[illegible]	9473871113	[illegible]
49	[illegible]	9936025890	[illegible]
50	[illegible]	8182925183	[illegible]
51	[illegible]	8732039111	[illegible]
52	कुन्ती देवी	9695738757	
53	अशोक कुमार	8574194755	
54	[illegible]	9621930140	[illegible]
55	रमेश कुमार	9616829539	रमेश कुमार
56	[illegible]	7348259429	[illegible]
57	[illegible]	9936613040	
58	[illegible]	9389451197	
59	[illegible]	8601307369	[illegible]
60	[illegible]	8287009805	

61		7518681098	
62		8896496184	
63		8931074078	
64		9519961156	
65		8400497686	
66		9519419382	
67		85745-8563	
68		9532837710	
69			
70		9984232548	
71		9991994620	
72		8295242737	
73		7807631333	
74		9935761350	
75		9935763850	
76		7852050933	
77			
78			
79			

Station Road

Consultation meeting with Roadside vendors was held and project scope and its objectives was discussed in details. It was informed that all the vendors listed in DUDA will be accommodated in vending zone that will be developed under this project.

We, vendors in Station Road are fully satisfied with the design and scope briefed by you, we have no objection to shift in the newly vending zones that will be developed under this project

Location

Date

S.No	Name	Contact no	Signature
1	विमली शर्मा	9574075116	विमली शर्मा
2	वेदनाथ	7267972371	
3	[illegible]	6391175761	[illegible]
4	[illegible]	8726703445	[illegible]
5	प्रमोद कुमार शर्मा	8009776628	
6	राहुल पाठे	6307371403	राहुल पाठे
7	मुन्ना लाल कन्नौजिया	9935693175	मुन्ना लाल
8	संपू देवी	8738053286	संपू देवी
9	कमल गुप्ता	9651992322	कमल गुप्ता
10	अमित कुमार प्रजापति	8756640861	अमित कुमार
11			
12			
13			

ANNEXURE 5: MINUTES OF STAKEHOLDER CONSULTATION HELD ON 27.06.2020

कार्यालय–संयुक्त निदेशक पर्यटन
वाराणसी एवं विन्ध्याचल मण्डल, वाराणसी।
फोन नं0 0542–2505033, ई–मेल: uptvns@gmail.com

पत्रांक 388 / प0के0वा0–योजना / 20 दिनांक 28 जून, 2020

सेवा में,
महानिदेशक पर्यटन /
मुख्य परियोजना निदेशक,
उ0प्र0 प्रो0 पुअर पर्यटन विकास परियोजना,
पर्यटन निदेशालय, लखनऊ।

विषयः**विश्व बैंक सहायतित् उ0प्र0 प्रो– पुअर पर्यटन विकास परियोजना के अन्तर्गत सारनाथ (जनपद–वाराणसी) के समेकित पर्यटन विकास के सम्बन्ध में**

महोदय,

कृपया उपरोक्त विषयक निदेशालय के पत्रांक–073 दिनांक 25.06.2020 का संदर्भ ग्रहण करने का कष्ट करें जिसके माध्यम से अवगत कराया गया है कि विश्व बैंक सहायतित् उ0प्र0 प्रो–पुअर पर्यटन विकास परियोजना के अन्तर्गत सारनाथ के पर्यटन विकास कार्यों को सम्मिलित कराये जाने का निर्णय लिया गया है, जिसके दृष्टिगत जनपद वाराणसी के सारनाथ में सरकारी / निःशुल्क भूमि पर विश्व बैंक की सहायता से सम्पादित हो सकने वाली योजनाओं का प्रस्ताव एक सप्ताह के भीतर उपलब्ध कराने हेतु अनुरोध किया गया है।

तदक्रम में इसी विषय में मा0 पर्यटन मंत्री जी द्वारा दिनांक 27.06.2020 को आयोजित समीक्षा बैठक में सारनाथ में कराये जा सकने वाले कार्यो के विषय में स्थानीय विधायक व मा0 मंत्री श्री रविन्द्र जायसवाल तथा आयुक्त, वाराणसी मण्डल, वाराणसी द्वारा प्रदत्त सुझावों व विभाग के प्रस्ताव के आधार पर निम्नलिखित कार्य निर्धारित / निर्णित किये गये हैं:–

क0स0	कार्य का विवरण
1.	सम्पूर्ण सारनाथ परिक्षेत्र में प्रोमिनाड / पाथ–वे का निर्माण। (सुहेलदेव तिराहा– म्युजियम–सारनाथ चौराहा–रेलवे स्टेशन– सुहेलदेव तिराहा)।
2.	सारनाथ में स्थित सभी अन्तर्राष्ट्रीय बौद्ध स्थलों / मन्दिरों को मुख्य मार्ग से लास्ट माईल कनेक्टिविटी।
3.	म्यूजियम तिराहे एवं सारनाथ चौराहे पर ऑटोमैटिक बोलार्ड्स के साथ–साथ स्ट्रीट पेडेस्ट्रीएशन का निर्माण।
4.	धर्ममाल मार्केट का रिनोवेशन / उच्चीकरण।
5.	सारनाथ स्थित राही पर्यटक आवास गृह का उच्चीकरण
6.	सम्पूर्ण सारनाथ परिक्षेत्र में सी0सी0टी0वी0 / वाई–फाई / एल0ई0डी0 स्क्रीन निर्माण। (सुहेलदेव तिराहा– म्युजियम–सारनाथ चौराहा– सुहेलदेव तिराहा)।

क्रमशः 2 / ...

7.	विजिटर सेंटर/पर्यटक पुलिस थाना
8.	चौराहों का सौन्दर्यीकरण (सुहेलदेव तिराहा, म्यूजियम तिराहा, सारनाथ चौराहा)
9.	सारनाथ रेलवे स्टेशन एवं रिंग रोड से महात्मा बुद्ध एवं काशी की छवि के अनुरूप थिमैटिक गेट की स्थापना
10.	साइनेज की स्थापना
11.	म्यूजियम तिराहे से सारनाथ चौराहे तक की मैट्रिक वेंडिग निर्माण।
12.	स्कील डेवलॅपमेन्ट सेन्टर का निर्माण।
13.	डियर पार्क का आधुनिकीकरण/उच्चीकरण
14.	बड़े नाले का सॉलिड वेस्ट मैनेजमेन्ट करते हुए ढ़के जाने का कार्य।
15.	आध्यात्मिक पुस्तकालय की स्थापना।
16.	दिव्यांग जनों के गोल्फ कोर्ट प्रदान कर पर्यटन क्षेत्र से जोड़ने का कार्य

कृपया तद्नुसार अवगत होने का कष्ट करें।

संलग्नक–यथोक्त।

भवदीय

(अविनाश चन्द्र मिश्र)
संयुक्त निदेशक पर्यटन,
वाराणसी एवं विन्ध्याचल मण्डल,
वाराणसी।

पृ0पत्रांक ——— /2020 समदिनांकित।

प्रतिलिपि निम्नलिखित को सादर सूचनार्थ प्रेषितः–

1. आयुक्त, वाराणसी मण्डल, वाराणसी।
2. जिलाधिकारी, वाराणसी को सादर सूचनार्थ प्रेषित।

(अविनाश चन्द्र मिश्र)
संयुक्त निदेशक पर्यटन,
वाराणसी एवं विन्ध्याचल मण्डल,
वाराणसी।

आयुक्त, वाराणसी मण्डल, वाराणसी की अध्यक्षता में विश्व बैंक सहायतित परियोजना के अर्न्तगत सारनाथ के पर्यटन विकास हेतु आयोजित बैठक का कार्यवृत्त– 27/6/2020

बैठक में उपस्थित अधिकारियों की सूची संलग्न है:–

1– बैठक में यह मत स्थिर हुआ कि सारनाथ में पार्किंग की नितांत आवश्यकता है। संयुक्त निदेशक पर्यटन द्वारा अवगत कराया गया कि इस मद में भूमि क्रय हेतु बजट व्यवस्था नहीं है। तद्क्रम में आयुक्त महोदय द्वारा यह निर्देशित किया गया है कि पार्किंग का कार्य हेतु भूमि वाराणसी विकास प्राधिकरण द्वारा क्रय की जा सकती है। तद्पश्चात परियोजना का कियान्वयन इसी भूमि पर किया जाय।

Land

2– परियोजना हेतु भूमि की उपलब्धता तथा अन्य कार्यो के परीक्षण हेतु उप जिलाधिकारी, सदर, टाउन प्लानर, वाराणसी विकास प्राधिकरण, अधीक्षण पुरातत्व विद् सारनाथ, पर्यटक अधिकारी, पुलिस विभाग के क्षेत्राधिकारी, अधिशाषी अभियन्ता लोक निर्माण विभाग, नगर निगम एवं गंगा प्रदूषण के अधिकारियों की टीम गठित की गयी। उक्त टीम भूमि की उपलब्धता, भूमि क्रय सम्बन्धी प्रस्ताव का परीक्षण तथा अन्य कराये जाने वाले कार्यो का एक सप्ताह के भीतर अपनी रिपोर्ट आयुक्त महोदय के समक्ष प्रस्तुत करेगें।

Report in one week

3– बैठक में यह मत स्थिर हुआ कि चौखण्डी स्तूप से म्यूजियम तिराहा होते हुए सारनाथ रेलवे स्टेशन तक प्रोमिनाड का कार्य कराया जाये। इस प्रोमिनाड/ पाथ–वे पर कैरिज वे, वाकेबल स्ट्रीट, प्लान्टेशन, लाइटिंग इत्यादि का कार्य अर्न्तराष्ट्रीय स्तर का कराया जाय। इस कार्य को डी0पी0आर0 में सम्मिलित कराया जाय।

NoC

4– उक्त कार्य को कराते समय समस्त यूटीलिटिज को अन्डर ग्राउण्ड केविलिंग इत्यादि की अन्डर ग्राउण्ड व्यवस्था कराया जाये।

NOC from UPPCL & Nagar Nigam

5– उक्त कार्य हेतु गंगा प्रदूषण से आख्या प्राप्त कर ली जाय, कि उनके द्वारा सारनाथ क्षेत्र में जिन भी स्थलों पर भविष्य में कार्य कराया जाना हो, उसका विवरण पर्यटन विभाग को उपलब्ध करा दिया जाये। गंगा प्रदूषण इकाई तथा जल निगम द्वारा यदि भविष्य में इन क्षेत्रो में जहां भी आवश्यकता हो कार्य का चिन्हाकन कर उसे परियोजना में सम्मिलित कर लिया जाये।

6– प्रस्तावित टूरिस्ट फैसिलिटेशन सेन्टर (पर्यटक थाना) में एक कामन टिकट सिस्टम की भी स्थापना की जाय। साथ ही डिजिटल इन्टरप्रेटेशन माल महल की भांति बनाया जाये।

7– जिन 26 मंदिरों तक पहुँच मार्ग के निर्देश मा0 पर्यटन मंत्री की विगत बैठक में प्रदान किये गये थे। उन सभी मंदिरों तक पहुँच मार्ग के निर्माण का कार्य भी डी0पी0आर0 में सम्मिलित कर लिया जाये।

PRIYADARSHINI NOC

CE/PSD 11/7/2020

क्रमशः————————2

1/7/2020

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8– वेंडिग जोन का सर्वे कराकर इलेक्ट्रिक कार्ट वेंडर्स को प्रदान करने के प्रस्ताव को भी सम्मिलित कर लिया जाये।

9– सारनाथ में दो प्रवेश द्वारों कमशः रेलवे स्टेशन एवं रिंग रोड की ओर से थिमेटिक गेट बनाये जाने के साथ हवेलिया चौराहे के दुन्दर्यीकरण के प्रस्ताव को भी परीक्षण के उपरान्त डी0पी0आर0 में सम्मिलित करा लिया जाये।

10– पुस्तकालय की स्थापना बुद्धा थीम पार्क में किया जाये।

11– सी0सी0 टी0वी0 वाई–फाई तथा एल0ई0डी0 स्कीन पूरे सारनाथ परिक्षेत्र में स्थापित कर कन्ट्रोल रूम पर्यटक थाना सारनाथ में बनाया जाये।

12– अगली बैठक में समस्त प्रस्तावित कार्यो को गूगल मैप पर चिन्हाकित करा कर पावर प्वाइंट प्रस्तुतिकरण किया जाये।

13– उक्त कार्य हेतु स्टेक होल्डर बैठक भी आयोजित कर ली जाये।

14– समस्त कार्यो का वीडियो वाक थ्रू बनाया जाये।

बैठक सधन्यवाद समाप्त की गयी।

अनुमोदित।

(दीपक अग्रवाल)
आयुक्त, वाराणसी मण्डल,
वाराणसी।

दिनांक 07.9.2020 को जा० मंत्री जी एवं आयुक्त महोदय की बैठक सम्पन्न हुई थी।

दिनांक 01.07.2020 को आयुक्त महोदय की अध्यक्षता में विश्व बैंक सहायतित उ0प्र0 प्रो–पुअर पर्यटन विकास परियोजना के अन्तर्गत सारनाथ (जनपद–वाराणसी) के समेकित पर्यटन विकास के सम्बन्ध में आहूत बैठक में उपस्थिति

क्र0 सं0	नाम	पदनाम	हस्ताक्षर	मोबाइल नं0
1.				
2.				
3.	कौशल राज शर्मा	जिला अधिकारी		
4.	राहुल पाण्डेय	अधिशासी अधिकारी, वीडीए		7578102802
5.	Mayank Rai	नगर आयुक्त		7800000900
6.	[illegible]	ADM(G)	RVS	9454417029
7.	[illegible]	ADM City		9454417630
8.	अनिल कुमार दुबे	सहायक अभि॰ VDA		7518102825
9.	[illegible]	J.E P.W.D		9452012066
10.	[illegible]	[illegible]		9565509913
11.	[illegible]	JE PWD		9415826913
12.	Anand Lal	AE PDPWD		9450534923
13.	Ankur Srivastava	EE-CD Jal Nigam		9473944277d
14.	[illegible]	D.D. Tourism		9412333523
15.	Navendra Singh	पुलिस निरीक्षक VDA		7518102824
16.	Abhay Kumar	A.E. Nagar Nigam		8601872615
17.	Dr. N.K. Sinha	S.A, ASI		7739444223
18.	Dinesh Kumar Dohare	E.E		9450963577
19.	Deepak Goyal	C.P.M. Bridge corpn.		9415231928

2020/505

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दिनांक 01.07.2020 को आयुक्त महोदय की अध्यक्षता में विश्व बैंक सहायतित उ0प्र0 प्रो–पुअर पर्यटन विकास परियोजना के अन्तर्गत सारनाथ (जनपद–वाराणसी) के समेकित पर्यटन विकास के सम्बन्ध में आहूत बैठक में उपस्थिति

क्र0 सं0	नाम	पदनाम	हस्ताक्षर	मोबाइल नं0
1.	Rajneesh K. Singh	J.C.A. A.S.I.		9452344444
2.	Mahendra Kumar Srivastava	SDM Sadar Varanasi		9454417040
3.	Shyam K. Singh	SP		9454461874
4.				
5.				
6.				
7.				

ANNEXURE 5(A): MINUTES OF STAKEHOLDER CONSULTATION HELD ON 29.10.2021

वाराणसी विकास प्राधिकरण, वाराणसी।

विश्व बैंक सहायतित उ0प्र0 प्रो–पुअर विकास परियोजना के अन्तर्गत सारनाथ बुद्धिस्ट सर्किट परियोजना के सम्बन्ध मे उपाध्यक्ष, वाराणसी विकास प्राधिकरण की अध्यक्षता में दिनांक 29.10.2021 को सायं 3:00 बजे आयुक्त कार्यालय सभागार, वाराणसी में सम्पन्न बैठक में निम्न अधिकारियों/फर्मों के प्रतिनिधियों द्वारा प्रतिभाग किया गया–

1. श्री दुष्यन्त कुमार मौर्या, अपर नगर आयुक्त, न.नि.।
2. श्री डी.के. पुरी, एडिशनल डी.सी.पी. ट्रैफिक।
3. श्री मोइनुद्दीन, मु0अभि0, नगर निगम।
4. श्री द्वारका सिंह, मु0अभि0, यू0पी0पी0सी0एल0।
5. श्री ए.के. सिंह, अधी.अभि., जल निगम।
6. श्री आशुतोष श्रीवास्तव, अधी.अभि. वा0वि0प्रा0।
7. श्री आनन्द कुमार मिश्रा, अधि0अभि0, वा0वि0प्रा0।
8. श्री अनिल दुबे, सहा0अभि0, वा0वि0प्रा0।
9. श्री एल.बी. दूबे, सिविल इंजीनियर, बी.डी.ए.।
10. श्री एस0के0 रंजन, पी.एन. गंगा प्रदूषण।
11. श्री एस.पी. पाण्डेय, पी.एम. के.के. कंस्ट्रक्शन बिल्डर्स।
12. श्री0 बी0के0 श्रीवास्तव, ए.एस.ओ. उ0प्र0 प्रदूषण नियंत्रण बोर्ड।
13. श्री दीपक अग्रवाल, एस.सी. यू0पी0पी0सी0एल0।
14. श्री रघुवेन्द्र कुमार, महाप्रबन्धक, जल कल।
15. श्रीमती प्रिया सिंह, टी.आई.ओ. टूरिज्म।
16. श्री चन्द्रशेखर चौहान, टीम लीडर, एस.टी.सी.।
17. श्री ज्योति मिश्रा, डायरेक्टर, एडीपीएल।
18. श्री डा.एस.के. त्रिपाठी, बी.एस.सी.एल.।
19. श्री अनिल कुमार सिंह, सहायक आर्कियोलाजिस्ट।
20. श्रीमती जया सिंह, पी.ओ. डूडा।

कार्यवृत्त

विश्व बैंक सहायतित उ0प्र0 प्रो–पुअर विकास परियोजना के अन्तर्गत सारनाथ बुद्धिस्ट सर्किट परियोजना के सम्बन्ध में दिनांक 29.10.2021 को बैठक सम्पन्न हुई। उक्त बैठक में परियोजना के सम्बन्ध में निम्नलिखित बिन्दुओं पर विचार–विमर्श किया गया तथा आवश्यकतानुसार निर्देश दिये गये–

- परियोजना हेतु एजेन्सी मे0 के0के0 कंस्ट्रक्शन एण्ड बिल्डर्स द्वारा नियुक्त आर्किटेक्ट द्वारा परियोजना का विस्तृत प्रस्तुतीकरण किया गया।
- परियोजना में आर्किटेक्ट द्वारा बताया गया कि बुद्धा थीम पार्क में पार्किंग की व्यवस्था की गयी है जिसमें एक ही ओर से आने–जाने की व्यवस्था है। रास्ता संकीर्ण होने के कारण आवागमन में असुविधा होगी, जिसपर पुलिस अधीक्षक–यातायात द्वारा भी इस प्रकरण उठाया गया। उक्त प्रकरण में यह निर्देशित किया गया कि पार्किंग में ही दूसरी तरफ एक्जिट प्वाइंट का प्लान कर लिया जाय।
- परियोजना में अण्डरग्राउण्ड केबिलिंग कार्य के सम्बन्ध में अधीक्षण अभियन्ता, उ0प्र0 पावर कार्पोरेशन लि0 द्वारा आगणन के सम्बन्ध में जानकारी प्रस्तुत की गयी जिस क्रम में निर्देशित किया गया कि तीन दिन के अन्दर सम्पूर्ण परियोजना के अण्डरग्राउण्ड केबिलिंग का आगणन सर्वे कराकर प्रस्तुत किया जाय। परियोजना हेतु स्थापित किये जाने वाले ट्रांसफार्मर को कम्पैक्ट किये जाने हेतु निर्देशित किया गया।
- परियोजना के सीवर एवं वाटर लाइन पर विस्तृत चर्चा की गयी। आर्किटेक्ट को निर्देशित किया गया कि परियोजना में वाटर लाइन एवं सीवर लाइन को भविष्य के आवश्यकता के अनुसार नगर निगम एवं जलकल विभाग से समन्वय स्थापित कर उनसे सीवर/वाटर लाइन की ड्राइंग प्राप्त कर उनके निर्देशानुसार ही परियोजना में सीवर एवं वाटर लाइन की व्यवस्था की जाय।
- परियोजना मे वेटलैण्ड का प्लान किये जाने हेतु फारेस्ट विभाग से समन्वय स्थापित कर आंगणन तैयार किये जाने के निर्देश दिये गये।

- परियोजना क्षेत्र में वेन्डर्स की संख्या एवं उनके व्यवसाय के प्रकार के सम्बन्ध में डूडा से हस्ताक्षरित सूची प्राप्त कर तद्नुसार ही रीहैबिलिटेशन प्लान तैयार किया जाये। बैठक में उपस्थित परियोजना अधिकारी डूडा से योजना स्थल पर स्थापित वेन्डर्स की प्रमाणित सूची आर्किटेक्ट/कार्यदायी संस्था को उपलब्ध कराने हेतु निर्देशित किया गया।
- परियोजना में सालिड वेस्ट मैनेजमेन्ट कलेक्शन हेतु ऐसे स्थान पर चिन्हित करने के निर्देश दिये गये जहाँ से नगर निगम, वाराणसी द्वारा आसानी से कूड़ा डिस्पोजल कर सके।
- परियोजना के डी0पी0आर0 को विलम्ब को लेकर नाराजगी व्यक्त की गयी तथा यह निर्देशित किया गया कि परियोजना से सम्बन्धित समस्त स्टेकहोल्डरों से समन्वय स्थापित करते हुए प्रत्येक दशा में दिनांक 10.11.2021 तक उपलब्ध कराये अन्यथा की स्थिति में प्रकरण शासन संदर्भित किया जायेगा, जिसके सम्पूर्ण जिम्मेदार परियोजना की एजेन्सी होगी। साथ ही परियोजना के मुख्य कान्ट्रेक्टर को किसी भी मीटिंग में उपस्थित न होने पर नाराजगी व्यक्त की गयी एवं निर्देशित किया गया कि परियोजना से सम्बन्धित आगामी बैठकों में अवश्य प्रतिभाग करें।
- परियोजना हेतु यदि अन्य विभाग से सम्बन्धित कोई प्रकरण हो तो एजेन्सी स्वयं सम्बन्धित विभाग से पत्राचार करते हुए प्राधिकरण को अवगत करायें जिससे प्राधिकरण स्तर से अपेक्षित सहयोग प्रदान किया जा सके।
- परियोजना के आर्किटेक्ट द्वारा बताया गया कि परियोजना में ऋषिपत्तन मार्ग पर कुछ जगहों पर अतिक्रमण है जिसे हटाया जाना आवश्यक है। उक्त अतिक्रमण को हटाने हेतु आर्किटेक्ट को यह निर्देशित किया गया कि वह प्रश्नगत अतिक्रमण को चिन्हित कर अपर नगर आयुक्त को सूचना उपलब्ध करा दे जिस क्रम में नगर निगम, वाराणसी द्वारा उक्त अतिक्रमण हटाने के निर्देश दिये गये।
- बैठक के अन्त में परियोजना के डी0पी0आर0 के सम्बन्ध में पुनः उल्लेख किया गया कि वाराणसी विकास प्राधिकरण को इस योजना हेतु रू0 10.00 करोड़ प्राप्त हो चुके है किन्तु अभी तक फर्म/एजेन्सी द्वारा परियोजना का डी0पी0आर0 प्रस्तुत नहीं किया गया है। आर्किटेक्ट को सख्त निर्देश दिये गये कि प्रत्येक दशा में दिनांक 10.11.2021 तक परियोजना का डी0पी0आर0 प्राधिकरण को उपलब्ध कराना सुनिश्चित करें जिससे डी0पी0आर0 के अनुमोदन हेतु शासन को प्रेषित किया जा सके। विलम्ब की दशा में परियोजना की सम्पूर्ण जिम्मेदारी फर्म/एजेन्सी की होगी।

अन्त में बैठक धन्यवाद प्रस्ताव के साथ समाप्त की गई।

अधीक्षण अभियन्ता

पत्रांक: 531 /वि0प्रा0/नि0/2021–2022 दिनांक: 03.11.2021

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

1–उपाध्यक्ष, वा0वि0प्रा0।
2–सचिव, वा0वि0प्रा0।
3–समस्त समबन्धित विभागीय अधिकारियों को सूचनार्थ।

अधीक्षण अभियन्ता

ANNEXURE 6: DRAFT GUIDELINES FOR THE MANAGEMENT OF ENVIRONMENTAL, HEALTH AND SAFETY IN THE PROJECT CONSTRUCTION SITES

Construction work can be particularly hazardous. Personal protective equipment, fire safety, electrical safety, confined space entry, emergency preparedness, biological safety, chemical safety, hazardous waste disposal, vehicle safety and other precautions are essential for safe construction work.

In this context, draft guideline prepared to ensure the quality standards for effective management of environment, Health and Safety issues in the implementation of world bank supported Pro-Poor Tourism project.

These guidelines are not intended to be a step-by-step procedure for each activity. It is a guideline document that outlines general activities, procedures, and requirements for the project throughout the construction phase of the sub projects. These procedures must always be read and implemented in conjunction with the related Contract Conditions. The construction works shall be undertaken in accordance with Environmental, Health and Safety guidelines under the World Bank supported subproject.

The guidelines are organized are as follows;

Personal Protective Equipment'

Personal Protective Equipment (PPE) provides additional protection to workers exposed to workplace hazards in conjunction with other facility controls and safety systems. The contractor shall provide required PPEs to workmen to protect against safety and or health hazards. Primarily PPEs are required for the following protection:

- Head Protection (Safety helmets)
- Foot Protection (Safety footwear, Gumboot, etc.)
- Body Protection (High visibility clothing (waistcoat/jacket), Apron, etc.)
- Personal fall protection (Full body harness, Rope-gap fall arrester, etc.)
- Eye Protection (Goggles, Welders glasses, etc.)
- Hand Protection (Gloves, Finger coats, etc.)
- Respiratory Protection. (Nose mask, SCBAs, etc.)
- Hearing Protection (Ear plugs, Ear muffs, etc.)

    - Site EHS officer should be maintained record of issue and replacement PPE.
    - Store in charge must maintain 10 % extra PPE of total requirement available in the store.
    - To employee and workers must issue the PPEs without any charge. Workers/Subcontractor should deposit the PPE after completion of their work or no longer use.
    - EHS officer should train workers for the use of PPE
    - PPE compliances should be checked during routine inspection, Safety audit etc.

- Safety shoes and helmet are mandatory PPE during construction work. All employees must wear helmet and safety shoes in all construction project area. No one should be permitted to enter the site without helmet and safety shoes.
- Occasional visitors should be provided helmet from security main gate during construction project round. Safety shoes cannot be insisted upon for such occasional visitors who are on construction project round. Normal shoes can be considered adequate for such occasional visitors.
- Safety helmets should be worn with chin straps in accordance with the following color code:
- All Site-based personnel and visitors to Site must ensure that suitable PPE is worn at all times while on the construction site. Additional PPE must be kept an appropriate to the location.
- Proper maintenance of PPE, including cleaning when dirty and replacement when damaged or worn out. Proper use of PPE should be part of the recurrent training programs for employees

Health and Safety

- Contractor must prepare Environmental, Health and Safety Plan for their respective project construction site under World Bank Project.
- Smoking and eating should be prohibited throughout the workplace except in designated areas.
- Adequate internal and external lighting should be provided by all Contractor at all workspaces
- Only qualified electrician is authorized for any electrical connection, disconnection and maintenance work.
- Instructions given on safety signs must be adhered to at all times.
- Safety sign, Posters and barricades should not be replaced or remove without permission from the EHS officer/ nominated person for EHS.
- Fire extinguishers must not be removed from their designated places except for extinguishing. Location of fire extinguisher must be clearly marked and known to all.
- Any person working on or near operational plant or equipment must be competent and trained in such work.
- Do not allow to touch any hazardous chemicals or unknown item at site except concerned person.
- Work place should be kept neat & clean. Wastage/Debris should be collected at identified areas after the completion of work on daily basis.
- Access should be free from any obstruction at site.
- Only authorized person should be allowed to sit along with driver on the machinery (if required).
- During heavy rain, improper lighting, heavy wind blowing at site, nobody should be allowed to work at height.
- Horse playing, Fighting, Gambling and possession or used of firearms, ammunition, alcoholic beverages and illegal drugs should be prohibited at work site. Any person found in possession of or under the influence of controlled substance or alcohol will be immediately removed from site.

- Report all injuries to Project in charge immediately, no matter how slight they may be.
- Security personnel should be deployed at security posts\ gates and around affected area.
- No Alcoholic beverages or illegal drugs are permitted on work site. The contractor should ensure that personnel is made aware of and fully comply with this prohibition
- Security guards must be ensured no such persons or workers be allowed to the work site during non-working hours, especially if they drunk.
- Un authorized person should not be allowed in the work site without permission from the concerned authority.
- All workmen should be screened before engaging them on the job. Physical fitness of the person to certain jobs like working at height or other dangerous locations to be ensured before engaging the person on work. The final decision rests with the site management to reject any person on the ground of physical fitness
- Workmen under 18 years of age should not be employed at site. No children should be permitted inside the working area.
- Crèche should be provided in workmen colony if female workers is engaged, at construction sites where 20 or more women are ordinarily employed, a hut for children under the age of 6 years shall be provided.
- Contractor should ensure adequate supervision at workplace to the workers. supervisors should ensure that all persons working under them should not create any hazards to self or to co-workers.
- Nobody is allowed to work without wearing safety helmet. Chinstrap of safety helmet should be always on.
- Usage of eye protection equipment should be ensured when workmen are engaged for grinding, shipping, welding and gas-cutting. For other jobs as and when site safety coordinator insists eye protection has to be provided.
- All the dangerous moving parts of the portable / fixed machinery being used should be adequately guarded.
- Other than the electricians with red helmet no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto. All major, minor accidents and near misses to be reported to Project Manager / Site Safety coordinator to enable the management to take necessary steps to avoid the recurrence.
- Adequate firefighting equipment should be made available at workplace and persons are to be trained in firefighting techniques with the co-ordination of Site Safety Coordinator.
- All the unsafe conditions, unsafe acts identified by contractors, reported by site supervisors should be noted down and / or safety personnel to be corrected on priority basis.
- Littering at site is prohibited so that the work area is clean.
- Do not allow to spill any chemical / fuel / substances on ground, which may pollute the environment
- The full body harness should be tied to safe anchoring point

Working at Height

No one should be allowed to work at or more than two meters' height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level. The full body harness with double lanyard should be worn by worker working above 2 meters.

- Ladders being used at site should be adequately secured at bottom and top.
- Material should not be thrown from heights. If required, the area should be barricaded and one person should be posted outside the barricade for preventing the trespassers from entering the area.
- All scaffoldings / work-platforms should be strong enough to take the expected load. The width of the working platform and fall protection arrangements should be maintained as per recommendation of Site Safety coordinator.
- Female workmen are not allowed to work on height & high-risk areas.
- The horizontal life line with adequate strength should be provided or used for the intended purpose only.
- The Contractor shall ensure that work is not carried out at height where it is reasonably practicable to carry out the work safely otherwise than at height.

Barricades

- The Contractor shall ensure the general construction area is protected; barricades must be erected before any excavation, extended as the excavation progresses and maintained until the project is completed.
- The Contractor shall furnish, erect, and maintain all the necessary signs, barricades, lighting, fencing, bridging, and flaggers that conform to the requirements set forth by OSHA.
- The following list provides guidelines for using barriers and guards:
- When necessary, reroute pedestrian and vehicular traffic to completely avoid a construction site.
- Where barricades cannot be installed, safety nets should be installed close to the level of terrace at which danger of fall exists

Stacking

- Construction materials should not be allowed to stored/scattered in the towns as per their convenience.
- TSU/VDA must ensure all the construction materials stored at designated place by the contractor. Materials should be stacked on well drained, firm and unyielding surface. Material should not be stacked so as to impose any undue stresses on walls or other structures.
- Materials should be stacked in such a manner as not to constitute a hazard to passer-by.
- When the materials have to be handled manually, each workman should be instructed by his foreman or supervisor in the proper method of lifting heavy objects.

- Workmen should be provided with suitable equipment for his personal safety as necessary. Supervisors should also take care to assign enough men to each lifting job; the weight carried by each man should be determined by the distance to be moved, difficulty of movement presented, time required, etc.
- Whenever any stack exceeds 1.5 m height, suitable and safe means of access should be provided for the use of workmen and such means of access should not disturb the stability of the stack.
- Appropriate signs should be placed at all storage locations where special conditions exist or where special precautions are necessary.

Emergency

- Contractor must prepare Emergency Preparedness Plan for their respective project construction site under World Bank Project.
- Mobilized the fire squad (security) at emergency site.
- Cordon off the affected area and guide traffic / emergency vehicles and control unnecessary gathering of persons around the site.

Housekeeping

- Contractor must prepare excess earth/debris and other construction materials disposal Plan for their respective project construction site under World Bank Project.
- Adequate time shall be assigned to ensure that good housekeeping is maintained.
- This shall be carried out by team of housekeeping squad.
- The contractor shall be responsible to provide segregated containers for disposal of debris at required places and regular cleaning of the same.
- Proper and safe stacking of material are of paramount importance at yards, stores and such locations where material would be unloaded for future use.
- . Flammable chemicals / compressed gas cylinders shall be safely stored.
- Unused/surplus cables, steel items and steel scrap lying scattered at different places within the working areas shall be removed to the identified location(s).
- All wooden scrap, empty wooden cable drums and other combustible packing materials, shall be removed from work place to the identified location(s).
- Keep the premises clean and free from fire hazards, and maintain the work and materials stockpiles neat and orderly throughout the construction period to permit safe and convenient access and movement of workers.
- Water sprinkling should be done to prevent the spread of debris, dust or other contaminants into the air or surrounding areas at all times.
- Construction debris and rubbish as generated by construction activity should be removed by contractor daily and not allowed to accumulate. It shall be deposited in a designated place.
- Scrap materials for reuse in temporary work shall be segregated and properly stored, protected and covered as for new materials.
- Construction debris removed from the upper levels of the site shall be deposited directly into a Dump sites and it should be transported through covered truck.

- The contractor should remove from the premises and site, all project signs, tools, scaffolding, surplus materials and temporary work and structures upon completion of the work and shall leave the work and the premises clean and acceptable to the owner.
- All surplus earth and debris are removed/disposed of from the working areas to officially designated dumpsites. Trucks carrying sand, earth and any pulverized materials etc. in order to avoid dust or odor impact shall be covered while moving.
- The tires of the trucks leaving the site shall be cleaned with water, wherever the possibility of spillage on carriageways meant for regular road traffic exists.

Traffic Management

- Construction activities may result in a significant increase in movement of heavy vehicles for the transport of construction materials and equipment increasing the risk of traffic-related accidents and injuries to workers and local communities.
- The incidence of road accidents involving project vehicles during construction should be minimized through a combination of education and awareness-raising, and the adoption of traffic safety rules and standard procedures
- Contractor must prepare Traffic Management Plan for their respective project construction site under World Bank Project.
- Contractor shall control the Traffic Management by designated site staff.
- Warn the road user clearly and sufficiently in advance.

    - Provide safe and clearly marked lanes for guiding road users.
    - Provide safe and clearly marked buffer and work zones
    - Provide adequate measures that control driver behavior through construction zones.
    - Provide additional support in the form of a flag man at all times, to assist the operator of the equipment or a heavy transport vehicle
    - Warning signs shall be displayed in the area wherever required
    - Materials hanging over / protruded from the chassis / body of any vehicle especially during material handling shall be indicated by red indicator (red light/flag) to indicate the caution to the road users.
    - No parking of trucks/trolleys, cranes and trailers etc. shall be allowed on roads, which may obstruct the traffic movement.

Temporary Signs

- The Contractor shall provide sign boards mentioning work area or temporary facility area. These signboards shall be properly displayed in appropriate locations.
- The signboard shall be prepared by experienced signboard manufacturer. It shall contain the description in English, Hindi and local language. It shall also contain relevant and appropriate graphics

Routine Inspection

Inspections by the contractor and TSU/VDA Team should be on daily Inspection of site, and equipment (before the start of day)

Education and Training

- Daily basic Tool Box Training should be carryout by the contractors at site before start of the work
- EHS officer should conduct training on EHS in regular interval
- Monthly safety meeting should be conducted by the contractor
- Motivational program for improve & implement Safety at site should be conducted by the contractors

First-aid and Medical Facilities

- Contractor must ensure the availability of adequate number of first Aid facility at respective project construction site under World Bank Project.
- Contractor can tie up with the local hospital for worker's health checkup and emergency treatment facility. Constructor ensure the availability of ambulance at construction site in case of emergency.
- The Constructor will carry out quarterly awareness programme of HIV-AIDS with the help of AIDS control society and contractor must organize Health check-up camp for their site workers at least once in a year.

ANNEXURE 7: GRIEVANCE REDRESSAL MECHANISM (DRAFT)

As per project ESMF, an Integrated Grievance Redressal Mechanism (IGRM) shall be established at the state level and at subproject level where investments have been or will be planned. The GRM shall be established to receive, evaluate, and facilitate the resolution of affected persons' concerns, complaints, and grievances about the social and environmental performance at project level. The aim of GRM is to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns related to the project. The GRM described below has been developed in consultation with stakeholders. The campaign will ensure that the poor, vulnerable and others are made aware of grievance redress procedures and entitlements per project entitlement matrix. Contractors will provide pamphlets to communities prior to start of works and billboards during construction. The pamphlets and billboards will include relevant environmental and social safeguards, GRM information, and contact details of contractors.

- **Local Level Grievance Redressal Cell**. The Local Level Grievance Redressal Cell shall be formed at the town/city level under the Chairmanship of District Magistrate to provide overall subproject guidance and "to sort out issues and remove hindrances, if any". GRC formed at city-level/district level with members composed of: District Collector as Chairperson, and following as members: and Deputy Director-VDA will be Member-Secretary. Public Information Officer, Tourism Office, Varanasi, Civil Engineer, TSU. Grievances cell must have representation of the NGO. GRC will have at least one-woman member.

- **State Level Grievance Redressal Cell**. The State Level Grievance Redressal Cell is already in place for planning and monitoring of work and for resolving issues related to departmental coordination etc. It is headed by Director General Tourism/ Chief Project Director (President) followed by Additional Chief Project Director as Vice president. Project Director of SPCU has nominated as member secretary and Public Information Officer, Directorate of Tourism, Environmental Specialist, SPCU Social Development Specialist, SPCU, Civil Engineer, SPCU are the members of State Level Grievance Redressal Cell. State level GRC will organise a meeting in first week of every third month for redressal of forwarded complaints. All Complaint will be sent to the concerning department in 15 days of date of receipt of complaint by local level GRC. Grievance redressal will complete by concerning department officials in 45 days after receiving complaints.

  Affected persons will have the flexibility of conveying grievances/suggestions by dropping grievance redress/suggestion forms in complaint/suggestion boxes that will be installed by DoT/VDA/District Administration office, DoT-Varanasi.

Following The following channels should be established to receive inquiries/comments and concerns /grievances:

- Toll free phone
- Email
- On-line form
- Regular post/mail
- Suggestion box/Walk-ins

An aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.

Record-keeping. Records of all grievances received, including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date these were effected and final outcome will be kept by TSU and submitted to SPCU. The SPCU will periodically review the functioning of the GRM and record information on the effectiveness of the mechanism, especially on the TSU's ability to prevent and address grievances. The sample Grievance registration format is attached.

Costs. Contractors are required to allocate budget for pamphlets and billboards as part of the EMP. Costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the VDA.

GRIEVANCE REGISTRATION FORMAT

(to be made available in the local language)

The _____Project welcomes complaints, suggestions, queries and comments regarding project implementation.

Aggravated persons may provide grievance with their name and contact information to enable us to get in touch for clarification and feedback.

In case, someone chooses not to include personal details and wants that the information provided to remain confidential, please indicate by writing/typing *(CONFIDENTIAL)* above Grievance Format.

Thank you.

Date		**Place of registration**			
Contact Information/Personal Details					
Name		**Gender**	* Male *Female	**Age**	
Home Address					
Place					
Phone no.					
E-mail					
Complaint/Suggestion/Comment/Question Please provide the details (who, what, where and how) of your grievance below: If included as attachment/note/letter, please tick here:					
How do you want us to reach you for feedback or update on your comment/grievance?					

FOR OFFICIAL USE ONLY

Registered by: (Name of Official registering grievance)	
Mode of communication: Note/Letter E-mail Verbal/Telephonic	
Reviewed by: (Names/Positions of Official(s) reviewing grievance)	
Action Taken:	
Whether Action Taken Disclosed:	Yes No
Means of Disclosure:	