Social Impact Assessment Report

October: 2021

Project ID: P154990

Sub-Project: Improvement & Up-gradation of Shadipura-Khanpeth-Sumbal Road Sub-Project (District Bandipora) Kashmir (Package-2)

> Jhelum Tawi Flood Recovery Project (World Bank Funded)

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ABBREVIATIONS

BPL	Below Poverty Line
СВО	Community Based organisations
COI	Corridor of Impact
CPR	Common Property Resources
DC	District Collector
DSC	Design & Supervision Consultant
DED	Detailed Engineering Design
EIA	Environmental Impact Assessment
EP	Entitlement/Eligible Persons
ERA	Economic reconstruction Agency
ESMF	Environment and Social Management Framework
ESSR	Environment & Social Screening Report
EM	Entitlement Matrix
GBV	Gender Based violence
GESI	Gender Equality and Social Inclusion
Govt.	Government
GRC	Grievance Redressal Cell/Committee
HP	Halqa Panchayat
IRC	Indian Road Congress
IDA	International Development Agency
IRAP	International Road Assessment Programme
JTFRP	Jhelum Tawi Flood Recovery Project
J&K	Jammu & Kashmir
DSC	Design & Supervision Consultant
DEA	Department of Economic Affairs
DPR	Detailed Project report
NGO	Non-Governmental Organization

OP	Operational Policy
РАР	Project Affected Person
PAF	Project Affected Family
PDF	Project Displaced Family
PDP	Project Displaced Person
PIU	Project Implementation Unit
PMU	Project Management Unit
РМС	Project Management Consultant
R&R	Resettlement & Rehabilitation
RAP	Resettlement Action Plan
RFCTLAR&R	Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement act, 2013
RDNA	Rapid Damage and Needs Assessment
ROW	Right of Way
RTI	Right to information Act
SAR	Social Assessment Report
SES	Socio- Economic Survey
SEO	Site Engineering Office
SH	State Highway
SIA	Social Impact Assessment
SC/ST	Schedule Caste and Schedule Tribe
SMF	Social Management Framework
SMP	
	Social Management Plan

Definition of Words and Phrases

Affected Persons (APs)

Affected Persons (APs), for this Project, means all the people directly affected by a projectrelated land acquisition that leads to their physical relocation or loss of assets, or access to assets, with adverse impacts on livelihoods. This includes any person, household (sometimes referred to as project affected family), firms, or public or private institutions who on account of project-related land acquisition would have their

- 1. standard of living adversely affected;
- 2. right, title or interest in all or any part of a house, land (including residential, commercial, artisanal mining, agricultural, plantations, forest and/or grazing land), water resources or any other moveable or fixed assets acquired, possessed, restricted or otherwise adversely affected, in full or in part, permanently or temporarily; and/or
- 3. business, occupation, place of work or residence, or habitat adversely affected, with or without displacement. APs therefore include;
 - persons affected directly by the acquisition or clearing of the right-of-way or construction work area;
 - persons whose agricultural land or other productive assets such as mining, trees or crops are affected;
 - persons whose businesses are affected and who might experience loss of income due to project-related land acquisition impacts;
 - persons who lose work/employment as a direct result of project-related land acquisition; and
 - people who lose access to community resources/property as a result of project-related land acquisition.

Census

Census means the pre-appraisal population record of potentially affected people, which is prepared through a count based on the village or other local population data or census.

Compensation

Compensation means payment in cash or kind for an asset to be acquired or affected by a project at replacement costs.

Cut-off-date

Cut-off-date means the date after which people will not be considered eligible for compensation if they are not included in the list of APs as defined by the census. Normally, the cut-off date for the titleholders is the date of the detailed measurement survey.

Displacement

Displacement means either physical relocation or economic displacement directly caused by project-related land acquisition.

Encroachers

Encroachers mean those persons who extend their property beyond that for which they hold a Title are encroachers and would not be eligible for compensation for land for which they do not possess a title.

Entitlement

Entitlement means the range of measures comprising cash or kind compensation, relocation cost, income rehabilitation assistance, transfer assistance, income substitution, and relocation which are due to /business restoration which is due to APs, depending on the type and degree nature of their losses, to restore their social and economic base.

Livelihood Restoration

Livelihood Restoration means the measures required to ensure that APs have the resources to at least restore, if not improve, their livelihoods. Restoration of livelihood of all APs is one of the key objectives of the World Bank's resettlement policy. It requires that people are given the means and assistance necessary for them to improve, or at least restore, their livelihood and living conditions to pre-project levels. Inventory of Losses means the pre-appraisal inventory of assets as a preliminary record of affected or lost assets.

Land Acquisition

Land Acquisition means the process whereby a person is compelled by a public agency to alienate all or part of the land s/he owns, possesses, or uses, to the ownership and possession of that agency, for public purposes, in return for prompt and fair compensation. This includes direct acquisition and easement.

Non-Titled

Non-titled means those who have no recognizable rights or claims to the land that they are occupying and includes people using private or state land without permission, permit, or grant.

Rehabilitation

Rehabilitation means the assistance provided to severely affected APs to supplement payment of compensation for acquired assets to improve, or at least achieve full restoration of, their preproject living standards and quality of life to pre-project level.

Resettlement

Resettlement means all social and economic impacts that are permanent or temporary and are:

- (i) caused by the acquisition of land and other fixed assets,
- (ii) by the change in the use of land, or
- (iii) restrictions imposed on land as a result of the project.

Resettlement Plan

Resettlement Plan means the time-bound action plan with budget setting out resettlement strategy, objectives, entitlements, actions, responsibilities, monitoring, and evaluation.

Structures

Structures mean all structures affected, or to be acquired, by the project such as living quarters, wells, hand pumps, agricultural structures such as rice bins, animal pens, stores/warehouses, commercial enterprises including roadside shops and businesses.

Squatters

Squatters mean the same as a non-titled person i.e. those people without legal title to land and/or structures occupied or used by them. World Bank policy explicitly states that such people cannot be denied assistance to restore livelihoods and living conditions based on the lack of title.

Vulnerable

Vulnerable means any people who might suffer disproportionately or face the risk of being marginalized from the effects of resettlement i.e; (i) single household heads with dependents; (ii) disabled household heads; (iii) poor households; (iv) elderly households with no means of support; (v) the landless or households without the security of tenure; and (vi) ethnic minorities.

Social Impact Assessment (SIA)

Social impact assessment (SIA) is the process of identifying and managing the social impacts of industrial projects. It can also be applied to policies, plans, and programs. SIA is used to predict and mitigate negative impacts and identify opportunities to enhance benefits for local communities and broader society.

Project Area Influence

The area likely to be affected by the project, including all its ancillary aspects, such as power transmission corridors, pipelines, canals, tunnels, relocation, and access roads, borrow and disposal areas, and construction camps, as well as unplanned developments induced by the project (e.g., spontaneous settlement, logging, or shifting agriculture along access roads). The area of influence may include, for example, the area where the project road is located.

Executive Summary

The catastrophic deluge of September 2014 has adverse impact on the the socio-economic aspects of the Union territory of Jammu and Kashmir (erstwhile state) and massive infrastructure damaged in which not only Srinagar but other districts were also affected. It left behind a trail of siltation in most of the water bodies as environmental degradation. In connection to the catastrophic flood, a mission of the World Bank visited the Union territory of Jammu and Kashmir (erstwhile state) during February 1-6, 2015 on request of the Government of India to review and assess the damages to produce a rapid multi-sectoral assessment report of the damages and needs. The RDNA estimates the total damages and loss caused by floods at about INR 211,975 million (US\$ 3,550.45), most of it to housing, livelihoods, and roads and bridges, which combined represented more than 70% of the damages in terms of value.

Based on the RDNA results, restoration works underway, and discussions with the GoJ&K, "Jhelum and Tawi Flood Recovery Project (JTFRP)" will focus on restoring critical infrastructure using international best practice on resilient infrastructure. One of the sub-project identified under Component 2 of JTFRP is the **" Improvement and Upgradation of Shadipura-Khanpeth-Sumbal road" Sub-Project in Bandipora district of Kashmir province.** The proposed subproject has a total length of 6.0 kms and traverses through Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeth villages.

Sub-projects under **"Jhelum and Tawi Flood Recovery Project"** have a prior requirement of screening which is based on three categories; viz., nature of the project, size of the project and location of the project with a sensitive area criteria. The screening for this sub-project has been conducted to identify the potentially significant social issues of the sub-project at an early stage for detailed Environmental and Social impacts. The screening exercise, however, did not envisage any adverse social impact. One of the significant requirements under JTFRP is to disseminate project information by the method of "meaningful public consultation with stakeholders and the general public", which was conducted successfully with the people of Shadipora and khanpeth villages on 15.09.2019.

Project Manager (Transport, Kashmir division), JK ERA, vide letter no ERA/PMT/20/1119 dated 07.09.2020 has issued an encumbrance free certificate which confirms that upgradation and strengthening of the road for a length of 6.0 kms under JTFRP shall be restricted to the existing and available RoW. Further, it is also certified that there are no residential commercial, religious structure or any CPR in the existing RoW. The letter issued by the Project Manager, also refers the certificate (letter no. CE/RBK/HD/7165, dated 14.06.2019) issued by the Chief Engineer,

PWD(R&B) department in which it has been mentioned that the existing RoW for the subproject road is 5.50 meters.

The revenue record of the proposed sub-project could not be obtained from the concern department by JK ERA. Since the revenue record of the proposed sub-project was not available, therefore PMU, JTFRP published a notice in the two local newspapers namely "The Daily Tameel Irshad" and "Kashmir Images" on 15.09.2021, informing general people and those who are likely to be benefitted/affected in particular, about the upgradation of this road sub-project within the existing right of way under World Bank funding. It also called for any objection from the local people regarding use of RoW, along with supporting documentary evidence within 07 days of publication of the notice in the newspaper. The office of Director safeguards did not receive any objection or claim from anyone even after the lapse of one month of the publication of notice in two local newspapers. Thereafter, Director Safeguards issued an official letter vide no. ERA/DSG/PS/94-99 dated 25.10.2021 regarding encumbrance free RoW detailing therein the process followed to reconfirm the ROW ownership status.

Therefore, on the basis of certificate issued by Project Manager (Transport, Division Kashmir), site visits, approved DPR and notice published in the newspaper it can be said that the subproject does not have any adverse impact on the assets or on the livelihood of anyone.

However, if during execution, there is any unanticipated impact of the sub-project on any asset, the issue shall be addressed as per the provisions of Environment & Social Management Framework (ESMF) for the project, applicable policies of the WB and that of U.T of J&K.

1. Background Introduction

1.1 Project Background

In September 2014, Jammu & Kashmir experienced torrential monsoon rains in the region causing major flooding and landslides. The continuous spell of rains from September 2-6, 2014, caused Jhelum, Chenab, and Tawi Rivers as well as many other streams/tributaries to flow above the danger mark. The Jhelum River also breached its banks flooding many low-lying areas in the Kashmir region, including the capital. In many districts, the rainfall exceeded the normal by over 600%. In the Jammu division also, many districts received rainfall above normal. Jammu district itself recorded over 467.3 mm of rainfall during Sept 2014, which is 339% excess of the normal. (source-Indian Meteorological department website). The Indian Meteorological Department (IMD) records precipitation above 244.4 mm as extremely heavy rainfall, and J&K received 558mm of rain in the June- September period, as against the normal 477.4 mm.

Due to the unprecedented heavy rainfall, the catchment areas particularly the low-lying areas were flooded for more than two weeks. Some areas in urban Srinagar stayed flooded for 28 days. Water levels were as high as 27 feet in many parts of Srinagar. The areas from the main tributaries of river Jhelum vis-à-vis Brengi nallah, Vishav nallah, Lider nallah and Sandran nallah started overflowing due to the heavy rainfall causing water levels in Jhelum river to rise. Subsequently, the discharge of the river Suran was 200 thousand cusecs as against an average of 50 thousand cusecs. With the excessive discharge of water, the river Suran affected the basin areas and also took a different course at various locations causing damages to the surrounding villages in the catchment area. Water levels also increased in the rivers of Chenab and Tawi, both of which were flowing above normal levels. Due to the rivers overflowing nearly 20 districts of the Union territory of Jammu and Kashmir (erstwhile state) were impacted.

A joint team led by the **Department of Economic Affairs (DEA), GoI,** with representation from the World Bank visited J&K on October 21, 2014. Subsequently, GoI has sent a request to the World Bank on January 5, 2015, to field a Joint Rapid Damage and Needs Assessment (RDNA) Mission within the Union territory of Jammu and Kashmir (erstwhile state). In response, a mission of the World Bank visited the Jammu and Kashmir (erstwhile state) during February 1-6, 2015 to produce a rapid multi-sectorial assessment report of the damages and needs. The RDNA estimates the total damages and loss caused by floods at about INR 211,975 million (US\$ 3,550.45), most of it to housing, livelihoods, and roads and bridges, which combined represented more than 70% of the damages in terms of value. Public service infrastructure and equipment of hospitals and education centers were also severely damaged and are still not fully operational.

Based on the Rapid Damage Needs Assessment (RDNA) results, restoration works underway, and discussions with the GoJ&K, the project will focus on restoring critical infrastructure using international best practices on resilient infrastructure. Given the Jammu and Kashmir (erstwhile state)'s vulnerability to both floods and earthquakes, the infrastructure will be designed with upgraded resilient features and will include contingency planning for future disaster events. Therefore, the project aims at both restoring essential services disrupted by the floods and improving the design standard and practices in the Jammu and Kashmir (erstwhile state) to increase resilience.

1.2 Project Development Objective¹

The Project Development Objective (PDO) is to support the recovery and increase disaster resilience in targeted areas of the Jammu and Kashmir (erstwhile state) and increase the capacity of the Jammu and Kashmir (erstwhile state) entities to respond promptly and effectively to an eligible crisis or emergency.

1.3 Project Components

The project is comprised of the following seven components:

- 1. Reconstruction and strengthening of critical infrastructure
- 2. Reconstruction of roads and bridges
- 3. Restoration of urban flood management infrastructure
- 4. Strengthening and restoration of livelihoods
- 5. Strengthening disaster risk management capacity
- 6. Contingent Emergency Response
- **7.** Implementation Support.

1.4 Sub- Project Background

Component 2 of the "Jhelum and Tawi Flood Disaster Recovery Project" is 'to restore and improve the connectivity disrupted due to the disaster through the reconstruction of damaged roads and bridges. The component will finance and support the reconstruction of about 300 km. of damaged roads and associated drainage works, retaining walls, breast walls, and other structures to increase resilience, designed to be seismic resilient (as per the guidelines of the Bureau of Indian Standards) and concerning topography and

¹ Source: JTFRP- Environmental & Social Management Framework (ESMF), 2015.

hydrology (as per the guidelines of the Indian Roads Congress, the Ministry of Road Transport and Highways), and projected demographic changes.

One of the identified roads undertaken in component 2 for the Improvement and Upgradation is of Shadipura-Khanpeth-Sumbal Road in Bandipora district of Kashmir province. The proposed subproject has a total length of 6.0 kms and traverses through Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeth villages.

1.5 Sub-Project Description

Categorically, it is a single-lane road falling under plain terrain, having low to moderate intensity of commercial vehicles. The Existing BT surface is in fair to poor condition. The average existing carriageway width is 2.5 m which is also lesser than a Standard Single lane road. For Design IRC SP 72: 2015 and IRC SP 20:2015 to be followed. In case of widening, we propose concentric widening. Project road runs in Plain terrain having several sharp U turn with non standard horizontal curves. The land use of the sub-project is open to residential. In general, the proposed cross-section comprises of 5.5 m wide carriageway with 1.000 m wide granular hard shoulder on either side of the c/w.

1.6 Benefits of the Sub-Project

The reconstruction of the proposed road will be a great help to the farmers to transport agricultural products, children would be able to travel faster and safer to go to school, as well as the local people when accessing to basic facilities such as health center/hospital, markets, working place, place of worship, and other areas. Besides that, the road will have fewer bags of dust during the dry season which may aggravate the health condition of the children and elderly; unlike the condition of the road during the rainy season which is muddy and slippery, is risky for the lives of the road users especially those using bicycles and motorcycles.

The project will not cause adverse impacts for the local people including women and there is no cultural heritage and forest that will be affected. During the civil works, there will be minimal social impacts but these are temporary disturbances and will be mitigated under the SMP. Overall, the project will provide long-term benefits for the local people. People expressed full support to the project.

1.7 Need for Social Impact Assessment

Social Impact Assessment (SIA) is a tool for anticipating and mitigating the potentially temporary and permanent adverse impacts of projects. It also helps in enhancing the positive outcomes of the sub-project. SIA alerts project planners (public and private bodies) as to the likely social and economic costs and benefits of a proposed project. The knowledge of the potential costs, when weighed against the likely benefits of a project, helps decision-makers in deciding whether the project should be carried out, with or without modifications, or abandoned completely. The agency carrying out the SIA also develops a mitigation plan to overcome the potential negative impacts on individuals and communities.

The purpose of the SIA is to ascertain whether a project proposed by the developer is truly in the public purpose, and whether the project is located at a site which is least-displacing and requires the bare minimum amount of land.

1.7.1 Need for SIA in Shadipura-Khanpeth-Sumbal road Sub-Project

Social Impact Assessment study in the sub-project road was conducted to identify and assess the land requirement for the proposed sub-project besides identifying the temporary and permanent impacts. Shadipura to Khanpeth sub-project road is going to be improved and upgraded on existing alignment and within the existing RoW is 5.50 meters (annexure 3). No additional land is required for improvement and up-gradation of the road. Though the sub-project does not require private land acquisition, therefore, the Social Impact Assessment was conducted to identify and assess any other impact on the people and communities due to project implementation such as any impact on private assets (of both titleholders and non-titleholders), on the livelihood of people, common property resources or any other type of impacts. Further, it will guide Executing Agency (EA) to prepare a sound Social Management Plan that will provide guidance to the contractor & PIU to manage social issues during execution and post execution.

1.8 Objectives of Social Impact Assessment

The major objectives of the SIA are given below:

- To gather baseline data for assessment of impacts (both direct and indirect);
- To suggest mitigation measures to effectively manage potential adverse impacts;
- To involve local people in the SIA study and project activities.

1.9 The methodology adopted for the SIA

1. Defining the Impact area

The first step undertaken was to define the Area of Impact. For defining the project area (both directly and indirectly), a map that will show the project area was prepared. Besides,

a field visit to the area were undertaken on 15.09.2019 to have a better understanding of the geographic limits of the area and the people living there.

2. Identifying the Information/Data Requirements and their Sources

The existing secondary data (census 2011) on impacts likely to follow from the project was reviewed and used for assessment purposes. This has provided disaggregated data according to caste, religion, sex, and other administrative categories, such as persons below the poverty line.

3. Public Consultations

Project-related information's were shared with all the concerned stakeholders in Shadipora and khanpeth villages on 15.09.2019. This was the first step in developing plans for consultation and participation is to identify stakeholders who will be involved in the consultative processes. The basic questions to consider in identifying stakeholders include:

- Who will be directly or indirectly and positively and negatively affected?
- Who are the most vulnerable groups?
- Who might have an interest or feel that they are affected?
- Who supports or opposes the changes that the project will produce?
- Whose opposition could be detrimental to the success of the project?
- Whose cooperation, expertise, or influence would be helpful to the success of the project?

4. Conducting Screening

Social Impact Assessment (SIA) process began with screening. Screening was undertaken in the very beginning stages of project development. The purpose of screening was to screen out "no significant impacts" from those with significant impacts and get a broad picture of the nature, scale, and magnitude of the issues. This helped in determining the scope of detailed SIA that would be subsequently carried out. The screening results revealed that the project will not have any significant impact. It has been decided that the proposed road will be upgraded in the available RoW and there are no structures either commercial, residential or any CPR in the alignment of the road.

5. Carry Out Scoping in the Field

The next step was scoping. Essentially, this involves a visit to the project site, and consultation with all stakeholders. It is important to confirm their understanding of key issues. On-site appreciation of impacts is indispensable for projects that cause

displacement on a large scale. The local knowledge can be invaluable in finding alternatives that help avoid or at least reduce the magnitude and severity of adverse impacts.

6. Developing a Mitigation Plan

SIA study helps and guides in the preparation of social mitigation and management plan for the envisaged and unanticipated impacts. In this study SMP has been prepared in consultation with the locals, PIU and other stakeholders which will serve as blueprint for managing and mitigating social issues/impacts during execution of the sub-project.

1.10 Structure of SIA Report

To present the findings of the SIA study, following information's have been presented in the following chapters:

Executive Summary

- 1. Introduction & Background
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2. Project Description

2.1 Description of the Project

The Jammu & Kashmir region owing to its geographical and geo-climatic setting is a multihazard prone region that has experienced natural disasters like earthquakes, floods, landslides, avalanches, high-velocity winds, and snowstorms. Most of the project roads in Kashmir Valley fall in plain terrain whereas roads under Jammu Province are passing through hilly terrain. In Kashmir, Floods and flash floods are also frequent. Floods generally occur in the summer when heavy rains are followed by snowmelt. Flooding of the river Jhelum is the main cause of floods in the region. In Jammu province, hill roads are mainly damaged frequently during the beginning of summer due to snowmelt and due to heavy rain. Hill slopes are badly damaged and sliding comes on the roads as there is no such protection work exists towards hill slide slope. Even Jammu Srinagar National Highway is not unturned from it.

In September 2014, the northern region of India experienced torrential monsoon rains in the region causing major flooding and landslides. The continuous spell of rains from September 2nd to 6th, 2014, caused Jhelum and Chenab Rivers as well as many other streams/tributaries to flow above the danger mark. Due to the unprecedented heavy rainfall, the catchment areas particularly the low laying areas were flooded for more than two weeks. As a result, the main tributaries of river Jhelum vis-a-vis Brengi Nallah, Vishav Nallah, Lider Nallah, and Sundran Nallah started overflowing. The water level also increased in the rivers of Chenab and Tawi, both of which the water flowing above normal levels. Due to the rivers overflowing nearly 20 districts were impacted. The total damage and loss caused by the flood is about INR 211,975 million, most of it to housing, livelihoods, and roads and bridges, which combined represented more than70% of the damages in terms of value. Public service infrastructure and equipment of hospitals and education centers were also severely damaged and are still not fully operational.

The project "Jhelum & Tawi Flood Recovery Project" will focus on restoring critical infrastructure using the international best practice of resilient infrastructure. Given the region's vulnerability to both floods and earthquakes, the infrastructure will be designed with upgraded resilient features and will include contingency planning for future disaster events. Therefore, a study followed by detailed reports on flood management aims at both restoring essential services disrupted by the floods and improving the design standards and practices to increase resilience.

Based on the RDNA results, restoration works underway, and discussions with the Govt. of J&K, "Jhelum and Tawi Flood Disaster Recovery Project (JTFRP)" will focus on restoring critical infrastructure using international best practice on resilient infrastructure. Component 2 of JTFRP is 'to restore and improve the connectivity disrupted due to the disaster through the reconstruction of damaged roads and bridges. The project will finance the restoration and improvement of about 27 damaged roads, as per the guidelines of the Indian Roads Congress, the Ministry of Road Transport and Highways.

2.2 Sub-Project Description

Categorically, it is a single-lane road falling under plain terrain, having low to moderate intensity of commercial vehicles. The Existing BT surface is in fair to poor condition. The average existing carriageway width is 2.5 m which is also lesser than a Standard Single lane road. Project road passing through several habitations like Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeit having population more than 1000. As per the Traffic Intensity Projected PCU is less than 2000 till the period 2030. But as per the recommendation of JTFRP, Up-gradation will be proposed for the intermediate lane. In case of widening, we propose concentric widening. Also with the provision of few culverts required. For Pavement Design IRC SP 72: 2015 and IRC SP 20:2015 to be followed. No such significant frequent submergence was reported during the initial study. Also with the provision of few culverts required. No such frequent significant submergence was reported during the initial study.



Figure 1 Map of proposed road

2.3 Project Location

The project road starts from Shadipura village and ends at Khanpeth village. It is a singlelane road falling under plain terrain, having low to moderate intensity of commercial vehicles. The Existing BT surface is in fair to poor condition. The average existing carriageway width is 2.5 m which is also lesser than a Standard Single lane road. For Design IRC SP 72: 2015 and IRC SP 20:2015 to be followed. Also with a provision of few culverts are required. No such significant frequent submergence was reported during the study.GIS Map of the Proposed Sub-project of Improvement & Up-Gradation of Shadipura-Khanpeth-Sumbal Road in District Bandipora has been annexed in annexure 2.

2.4 Details of Existing Project Road

Categorically, it is a single-lane road falling under plain terrain, having low to moderate intensity of commercial vehicles. The Existing BT surface is in fair to poor condition. The average existing carriageway width is 2.5 m which is also lesser than a Standard Single lane road. Project road passing through several habitations like Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeit having population more than 1000. As per the Traffic Intensity Projected PCU is less than 2000 till the period 2030. But as per the recommendation of JTFRP, Up-gradation will be proposed for the intermediate lane. In case of widening, we propose concentric widening. Also with the provision of few culverts required. For Pavement Design IRC SP 72: 2015 and IRC SP 20:2015 to be followed. No such significant frequent submergence was reported during the initial study. Also with the provision of few culverts required. No such frequent significant submergence was reported during the initial study.

2.4.1 The embankment, Carriageway, and Shoulder

The average width of the existing carriageway varies from 2.75 m to 3.00 m with an average shoulder width of 1.00 m resulting in the average formation width varies from 4.75 m to 5.00 m. The details of carriageway, Surface & Shoulder condition, etc are mentioned in Annexure III of DPR.

2.4.2 Horizontal and vertical alignment

Project road runs in Plain terrain having several sharp U-turns with non-standard horizontal curves. The existing vertical profile is good.

2.4.3 Pavement Condition

The existing pavement is flexible for the entire stretch is in fair to poor condition. Condition of pavement severely damaged at several stretches.

2.4.4 Cross Drainage Structures

There are 11 nos. of CD structure in the project road, out of which 10 nos. HP culverts and 1 no Slab culverts exist on the project stretch. Out of these 10 nos. HP culverts 9 nos. are replaced by either 1200 mm dia HP Culvert or Box Culvert as existing are choked due to siltation and in very poor condition. In addition to that, 1 no of Slab Culverts also proposed to replace and reconstruct by Box culvert. The details are given in the table 1.

	Existing Structures						
Sl No.	Chainage	Types	Dia/Span(m)	Width	Width of Head/Parafe t Wall (m)	Condition	
1	0+030	НРС	3 x 1.200	7.932	4.200	Retained	
2	1+400	HPC	-	4.613	-	C & P	
3	4+195	НРС	6 x 0.600	7.244	4.000	C & P	
4	4+225	НРС	1 x 0.300	5.036	0.800	C & P	
5	4+350	НРС	-	4.647	-	C & P	
6	4+380	НРС	1 x 0.600	7.676	0.900	C & P	
7	4+480	НРС	1 x 0.300	5.145	0.750	C & P	
8	4+900	НРС	1 x 0.600	15.016	0.900	C & P	
9	5+110	НРС	-	5.722	-	C & P	
10	5+240	HPC	1 x 0.600	4.674	0.900	C & P	
11	5+580	SC	1 x 2.700	3.518	3.100	Poor	

Table 1: List of existing cross drainage structures

2.4.5 Existing Drain

In this project road, there are only 1212.58 m drain exists at different stretches. Details of existing drains are shown below:

Table 2: Details of the existing drain

Sl No. Cha	ainage Left	Right
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	From	То	Length (m)	
1	0+035	0+135	100	100
2	3+320	3+363	-	43
3	3+507	3+580	-	73
4	3+644	3+716	-	72
5	4+215	4+505	24.7	290
6	4+750	4+900	-	148.09
7	5+065	5+233	-	164.74
8	5+576	5+624	-	39.69
9	5+771	5+922	129.61	-
10	5+936	5+966	27.75	-
	Total Length		282.06	930.52

2.4.6 Existing Pavement Composition

The said road is a very old road that was initially constructed not based on traffic on the section but to give connectivity to hillside villages. Afterward, several maintenance works of the different specifications have been undertaken over the road. Specification adopted for such maintenance widely varies from year to year as well as from stretches to stretches. But during heavy rain in the year 2014, the alignment is severely damaged and connectivity with villages was cut off for a few weeks. Trial Pit Investigation has been conducted for detailing pavement composition at different locations and on average following composition is found as existing hard crust as mentioned in table 4.

The average pavement thickness is 407 mm. The total thickness of the hard crust varies in between 290 mm – 480 mm where existing crust comprises of GSB consists of compacted granular materials having thickness 170 mm to 240 mm thick (average 202 mm), partly disintegrated base course with WBM materials of 120 mm to 175 mm thick (average 139 mm) and Bituminous/ Binder course varying from 50 mm to 110 mm thick (average 68 mm). From Km 0.000 to Km 6.000, the existing BT surface is in fair to poor condition. A detail of pit wise existing pavement compositions is provided below:

Table 3: Details of Existing Pavement Composition

			al	Thickness (mm)			
Location	Side	Description of Layers	Individu (mm)	Surface (Bituminous) in mm	Base Course in mm	Sub-Base Course in mm	Total
		Bituminous	50				
RD 0.000 / TP 1	RHS	WBM	130	50	130	180	360
		Metal Soling	180				
		Bituminous I	50				
		WBM	90				410
RD 0.500	LHS	Metal Soling	60	50	170	190	
/ TP 2		Bituminous II	20				
		WBM	90				
		Metal Soling	100				
		Bituminous I	50	50	150	200	400
		WBM	70				
RD 1.000	LHS	Metal Soling	50				
/ TP 3		Bituminous II	30				
		WBM	60				
		Metal Soling	140				
		Bituminous I	60				
		WBM	70		170	240	480
RD 1.500	RHS	Metal Soling	70	70			
/ TP 4		Bituminous II	30		270		
		WBM	70				
		Metal Soling	170				
		Bituminous I	80				
RD 2.000 / TP 5	RHS	WBM	70	75	175	225	475
		Metal Soling	75				

			al	Thickness (mm)			
Location	Side	Description of Layers	Individu (mm)	Surface (Bituminous) in mm	Base Course in mm	Sub-Base Course in mm	Total
		Bituminous II	30				
		WBM	50				
		Metal Soling	175				
		Bituminous I	50				
RD 2.500	LHS	Bituminous II	60	110	150	220	480
/ TP 6	Lind	WBM	150	110	100	0	400
		Metal Soling	220				
		Bituminous I	40			230	480
RD 3.000	LHS	Bituminous II	50	90	160		
/ TP 7		WBM	160	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100	250	100
		Metal Soling	230				
	LHS	Bituminous I	60	60			370
		WBM	50		110	200	
RD 3.500 / TP 8		Bituminous II	60				
		WBM	70				
		Metal Soling	130				
		Bituminous I	70				
		WBM	70				
RD 4.000 / TP 9	RHS	Bituminous II	70	70	140	190	400
		WBM	60				
		Metal Soling	130				
		Bituminous	70				
KD 4.500 / TP 10	RHS	WBM	120	70	120	180	370
,		Metal Soling	180				

			al		Thickness (mm)			
Location	Side	Description of Layers	Individua (mm)	Surface (Bituminous) in mm	Base Course in mm	Sub-Base Course in mm	Total	
		Bituminous	70					
KD 5.000 / TP 11	LHS	WBM	130	70	130	170	370	
		Metal Soling	170					
		Bituminous I	50					
		WBM	60			180		
RD 5.500 / TP 12	LHS	Bituminous II	30	50	150		380	
,		WBM	60					
		Metal Soling	180					
		Bituminous I	60					
		WBM	80		120	240		
RD 6.000 / TP 13	RHS	Bituminous II	40	60			420	
		WBM	80					
		Metal Soling	160					
Average Thickness from Km 0.000 to Km 6.000			68	139	202			
Minimum 6.000	Minimum Thickness from Km 0.000 to Km 6.000			50	120	170	290	
Maximum Thickness from Km 0.000 to Km 6.000			110	175	240	480		

2.4.7 RoW Details of Sub-Project Road

Project Manager (Transport, Kashmir division), ERA, JTFRP vide letter no ERA/PMT/20/1/19 dated 07.09.2020 provided a non-encumbrance certificate which confirms that the sub-project road does not have any temporary or permanent structure in the whole stretch (annexure 3).The letter issued by the Project Manager, also refers the certificate (letter no. CE/RBK/HD/7165, dated 14.06.2019) issued by the Chief Engineer,

PWD(R&B) department in which it has been mentioned that the existing RoW in the subproject road is 5.50 meters (Annexure 4).

2.4.8 Major Utilities Along The Existing Road

A detailed road inventory survey was carried out at 100 m intervals mainly the proposed alignment. Detail information was collected and utilized for planning, design and cost estimate.

An inventory of the project road has been carried out through dimensional measurement and visual inspection. Features like chainage, terrain and land-use, height of fill or depth of cut, width of pavement and shoulders, important road junctions and geometric deficiencies, utilities etc., were recorded. These surveys were carried out by visual observation supplemented with sample measurements using tape etc. The road inventory has been referenced to the existing km posts established along the roadside.

2.5 Proposed Activities (Improvement & Upgradation)

Sl.No.	Description of item	Details				
1	Road length	Existing – 6.000 km.	Design – 6.000 km			
2	Road Configuration	Existing:- 2.75 m to 3.0 m wide carriageway	Propose:- 5.5m wide carriageway			
3	Terrain	Plain				
4	Land use pattern	Mixed Pattern Open & Resid	ential			
5	Existing Surface of carriageway	Flexible pavement BT surface				
7	Existing Formation Width	4.75 m – 5.00 m				
8	Right of Way (ROW)	5.5 m				
9	Pavement Condition	Fair to Poor				
10	New Flexible Pavement thickness	OGPC-25 mm; BM -50 mm mm	, WBM - 225 mm; GSB-200			
11	Design CBR	5.6 % (Avg. CBR)				
12	Junctions	Minor - 8				
13	Traffic	T9 (15 ESAL to 20 EASL) – Il	RC SP 72 -2015			
14	Cross drainage structures	Existing CD Structure- 11Proposed Culvert- 15HP Culvert - 10 Nos.HP Culvert - 9Slab Culvert - 1 Nos(Reconstruction) & 5				

Table 4: Overview of the proposed road

Sl.No.	Description of item	Details
		Box Culverts - 1 No (Reconstruction)
15	Settlement	Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeit

2.5.1 **Carriageway/ Roadway Width**

In general, the proposed cross-section comprises of 5.5 m wide carriageway with 1.000 m wide granular hard shoulder on either side of the c/w. The camber on either side of the carriageway and hard shoulder is 2.5 % & on shoulder it is 3.0 %. The proposed crosssections are presented in TCS-1 having 5.5 m CW.



 Note:

 1. Existing Bituminous layer to dismantled and re-compacted.

 2. Below Bituminous Macadam, layer thickness (WBM-maximum 225mm/GSB) shall be decided based on re-compacted level and FRL of the proposed road.

Figure 2 proposed cross-section

Sl No	From Ch	To Ch	Av. C/W width available at site	Reqd. C/W	TCS Type	Type of Proposal	Formation width
1	0.000	6.000	2.85	5.5	TCS-1	NC	7.50

Table 5: Details of new construction stretches as per TCS schedule

2.5.2 Horizontal and vertical alignment

Existing alignment is followed to widen and strengthen the existing road and it is found that mostly the required ruling design speed of 40 km/hour is maintained. The existing carriageway will be provided with the required grade after making the provision of a profile corrective course with proper cambers over the existing carriageway surface. Due to land constraints, most of the curve radius is less than 60, henceforth 0.6 m to 0.9 m extra widening provide at those locations as per IRC norms. Horizontal, Vertical Curve, and extra widening. Details are mentioned in annexure IV of DPR.

2.5.3 Improvement of Sight Distance

Improvement of sight distance on the proposed alignment has been taken care of while designing the alignment. However, a necessary road sign has to be provided where speed is restricted wherever required.

2.5.4 Improvement of Cross Drainage Structures

There are 11 nos. of CD structure in the project road, out of which 10 nos. HP culverts and 1 no Slab culverts exist on the project stretch. Out of these 10 nos. HP culverts 9 nos. are replaced by either 1200 mm dia HP Culvert or Box Culvert as existing are choked due to siltation and in very poor condition. In addition to that, 1 no of Slab Culverts also proposed to replace and reconstruct by Box culvert. The details are given in Table 6.

Sl		Existing	s Structures				Proposed Struct	ure
No.	Chainage	Types	Dia/Span(m)	Width	Chainage	Types	Dia/Span(m)	Remarks
1	0+030	Pipe	3 x 0.6	7.932	0+030	HP	3 x 1.2	Replace
2	-	-	-	-	0+960	HP	1 x 1.2	NC
3	1+400	Pipe	-	4.613	1+400	HP	1 x 1.2	Replaced
5	-	-	-	-	2+460	HP	1 x 1.2	NC
8	4+195	Pipe	6 x 0.6	7.244	4+195	HP	3 x 1.2	Replaced
9	4+225	Pipe	1 x 0.3	5.036	4+225	HP	1 x 1.0	Replaced

Table 6: Details of proposed culverts

Sl		Existing	g Structures				Proposed Struct	ure
No.	Chainage	Types	Dia/Span(m)	Width	Chainage	Types	Dia/Span(m)	Remarks
10	4+350	Pipe	-	4.647	4+350	HP	1 x 1.2	Replaced
11	4+380	Pipe	1 x 0.6	7.676	4+380	HP	1 x 1.0	Replaced
12	4+480	Pipe	1 x 0.3	5.145	4+480	HP	1 x 1.0	Replaced
13	4+900	Pipe	1 x 0.6	15.016	4+900	HP	1 x 1.0	Replaced
14	5+110	Pipe	-	5.722	5+110	HP	1 x 1.0	Replaced
15	5+240	Pipe	1 x 0.6	4.674	5+240	HP	1 x 1.2	Replaced
16	5+580	Slab	2.7 X 3.4	3.518	5+580	Box	3.0 x 3.0	Replaced

2.5.5 Pavement Design

After doing the pavement investigation and pavement condition survey, it has been studied thoroughly. After that pavement design has been done as per the following considerations:

- Rehabilitation on existing pavement
- Reconstruction of existing pavement

After Task 1 and Task 2, realignment, as well as the provision of rigid pavements, have been ruled out. Hence, under Task 3 of this project road only following pavement design has been studied:

- Rehabilitation on existing pavement
- Reconstruction of existing pavement

The consultants have worked out the designs for all the above cases based on results of survey/investigations about traffic, axle load spectrum, pavement condition, and strength, subgrade/material properties, etc. The design life adopted in the analysis is 15 years for flexible pavement from the date of opening the road to traffic. Pavement design for various cases has been illustrated in the following paragraphs.

2.5.6 Rehabilitation of existing pavement

Strengthening design involves prudent engineering judgment and decision-making in analyzing and using the various investigations data for the purpose. It may be mentioned that deflection testing (generally use for strengthening design) is primarily related to traffic-associated fatigue cracking of a pavement. If the pavement is exhibiting deformation / without bitumen top surface / poor condition of the bituminous surface, it will be necessary to sample and test/observe component layers before deciding on an overlay/strengthening.

Design of flexible pavement for new construction has been done following "Tentative Guidelines for the Design of Flexible Pavement" (IRC: 37-2018).

The following Survey has been conducted and procedure followed for design and construction:

- 1. Conducted the Traffic Study and based on PCU, lane configuration finalized. In case of land constraint, lane configuration has been restricted Up to the availability of space between properties of both sides.
- 2. In case land availability allows providing required lane configuration to upgrade (widening), rehabilitation and reconstruction considered for these stretches. For the widening portion, mostly concentric widening is considered. After both edge trimming, prepare the original ground for construction of embankment, followed by sub-grade, GSB, WMM, DBM, and BC.
- 3. Raising of Existing Carriageway is not done where roadside establishment exists. On those stretches, reconstruction has been proposed. Where lane configuration is not feasible for an upgrade, the carriageway has been restricted Up to the availability of space between properties of both sides.
- 4. The existing condition of the road is poor. Hence, the BBD test was not carried out. Existing bituminous layer to be dismantled and re-compaction to be done after dismantling bituminous layer. Re-compacted level shall be compared for design level and WBM/GSB (depending upon the level difference of FRL and level after re-compaction). Existing Base and Sub-base layers are generally more than the required thickness than that of new pavement. Widening portion to be constructed from the subgrade as per the design. The top layer of BC and DBM shall be laid simultaneously for the existing carriageway as well as the widening portion.
- 5. Axle Load survey was conducted to find out VDF. Wherever Axle load survey not done standard VDF value considered based on terrain and traffic as per IRC:37-2018.

Soil samples were collected from the sub-grade level after excavating the existing pavement thickness at the selected locations along the carriage way edge. Soil Samples taken to the laboratory were tested for L.L., P.L., and Gradation. Remolded soil samples were thereafter made by compacting at the maximum dry density and OMC. The samples were then soaked for 4 days and then tested for CBR value. For each location,

three such remolded samples were prepared and tested for soaked CBR, and the average value of CBR at each location was determined. The CBR value varies between 5.20 % & 7.20 %. The Average CBR is 5.60 %. CL classified soil is found in sub-grade from Ch 0.000 Km to Ch 6.000 Km, The summary of Test Results is presented herewith in Table 5.4.

Design of flexible pavement for new construction has been done by following "Guidelines for the Design of Flexible Pavements for Low Volume of Rural Roads" (IRC SP 72: 2015). This is described as following:-

DESIGN OF FLEXIBLE PAVEMENT

As per IRC: SP:72-2015

Average Daily Traffic in Season

Animal drawn Carts = 2 MCV (Laden)	3
Cycles & Cycle Rickshaws / Hand Cart	7
2 Axles, LCVs & Mini Bus	155
Agricultural Tractor- Trailers + (Animal drawn Carts = 2 MCV (Laden))=	108
Cars & Jeeps	113
Motor Cycles	82
Total	468

Average Daily Traffic During the Season (T) = 468 Design CBR (%) = 5.60 AADT = T+(1.2nTt)/365 = 468+(1.2x1x468x90)/365 606 Here n = 1 t = 90 days Multiplying Factor for Harvesting Season Here n = No of days in one Harvesting Season t =

After opening of road to traffic, AADT =	606 x (1.06)^2	
After opening of road to traffic, AADT =	681	-
Assuming an initial growth rate of 6%		

From the given traffic count data, the proportions of HCV and MCV out of the ADT of 681 work out as under:

Heavy Commercial Vehicles (HCV) =	155 x 681/468=	226
Medium Heavy Commercial Vehicles (MCV) =	108 x 681/468=	157
Projected Design Traffic (CVPD) =		383

Traffic count data does not given the proportion of unladen and laden vehicles, it is assumed that these are equal in number.

Heavy Commercial Vehicles (HCV) (Laden)	=	113
Heavy Commercial Vehicles (HCV) (Unladen)	=	113
Medium Heavy Commercial Vehicles (MCV) (Laden)	=	79
Medium Heavy Commercial Vehicles (MCV) (Unladen)	=	78

Taking the VDF value from para 3.4.4 from IRC:SP: 72-2015,

The ESAL applications per day =

- = HCV x 2.86 + HCV x 0.31 + MCV x 0.34 + MCV x 0.02
- = 113 x 2.86 +113 x 0.31 +79 x 0.34 +78 x 0.02
- = 386.63

Cumulative ESAL applications over 10 years @ 6% growth rate

= 4811 x 386.63 = **18,60,077.00**

Traffic Categories	Cumulative ESAL App	ulative ESAL Applications				
T01	10,000.00 -	30,000.00				

Т02	30,000.00	-	60,000.00
т03	60,000.00	-	1,00,000.00
T04	1,00,000.00	-	2,00,000.00
T05	2,00,000.00	-	3,00,000.00
Т06	3,00,000.00	-	6,00,000.00
Т07	6,00,000.00	-	10,00,000.00
Т08	10,00,000.00		15,00,000.00
Т09	15,00,000.00		20,00,000.00

Determination of Pavement Layers: The Pavement composition of different layers has been done as per Fig below of IRC SP72:2015.



Figure 3 Pavement Design Catalogues for Gravel/Granular Bases and Sub bases

2.5.7 Traffic Safety and Other Appurtenances

Following road furniture and miscellaneous items have been designed keeping safety aspects in mind.

I. Road Markings

Road Markings on the carriageway and the objects within and adjacent to the roadway are used as a means of guiding. They promote road safety and ensure smooth flow of traffic in the required paths of travel.

The location and type of marking lines, material, and the colour is followed using IRC: 35-2015 – "Code of Practice for Road Markings".

The road markings were carefully planned on carriageways, intersections, and bridge location

II. Road Signs

Road signs were planned to supply information, to regulate traffic by imparting messages to the drivers. The type, locations, sizes were planned using IRC: 67-2012 "Code of Practice for Road Sign".

Sl no	Sign		Size	
	Fig No	Description		Nos
1	14.02	Give Way	900 Equilateral	8
2	14.23	Overtaking Prohibited	600 Equilateral	0
3	15.01	Left Hand Curve	600 Equilateral	7
4	15.02	Right Hand Curve	600 Equilateral	7
5	15.03	Right Hairpin Curve	600 Equilateral	0
6	15.04	Left Hairpin Curve	600 Equilateral	0
7	15.05	Right Reverse Bend	600 Equilateral	2
8	15.06	Left Reverse Bend	600 Equilateral	2
9	15.07	Series of Bends	600 Equilateral	0
10	15.09	Side Road Right	600 Equilateral	3

Table 7: Details of Road Signages
11	15.10	Side Road Left	600 Equilateral	3
12	15.18, 15.19, 15.20, 15.21	Intersection	600 Equilateral	8
13	15.23	Narrow Road Ahead	600 Equilateral	0
14	15.24	Road Widens	600 Equilateral	0
15	15.34	School Ahead	600 Equilateral	0
16	15.35	Build Up Area	600 Equilateral	6
17	15.72	Chevron(Normal)		0
18	15.76	Object Hazard(Left)	90 cm x 30 cm rectangular	32
19	15.77	Object Hazard(right)	90 cm x 30 cm rectangular	32
20	16.02	Directional Sign		4
21	16.04	Directional Sign	60 cm x 90 cm rectangular	4
22	16.06	Place Identification Sign	60 cm x 45 cm rectangular	8
23	14.37	Maximum Speed Limit	600 mm dia	0
24	15.30,15.31	Start & End of Dual Carriageway	600 Equilateral	0
25	17.07	Hospital Ahead	600 Equilateral	0
	1	1	Total	126

III. Delineators

The role of delineators is to provide visual assistance to the driver about the alignment of the road ahead, especially at night. Reflectors are used on the delineators for better night visibility. IRC: 79-1981 "Recommended Practice for Road Delineators" was followed to plan location details. Two types of road delineators were planned i.e. hazard markers and object markers. Hazard markers are to define obstructions like guardrails, and abutments adjacent to the carriageway, for instance at culverts and bridges. Object markers are used to indicate hazards and obstructions within the vehicle flow path, at channeling islands close to intersections.

IV. Crash Barrier

W Type Metal crash barriers are proposed/ provided for the safety of the traffic on the stretches on approaches of bridges. It is also proposed on the curves for the safety of traffic irrespective of embankment height as per NHAI Circular (NHAI/PH-II/NHDP/ADB/GM (NS)-I dated May 19, 2004).

V. Parapet Wall

Parapet walls are provided along the edge of the shoulders at the valley side throughout the project stretch excluding the settlement areas. These are provided to prevent the vehicles from toppling over.

3. Legal and Regulatory Framework

This section deals with the laws, regulations, and policies, of the Government of India, the State Government, and the World Bank, related to environmental and social issues. Only the laws, regulations, and policies relevant to the project are discussed here. This section needs to be updated as to when new laws, regulations, and policies are made and enforced or the existing ones are revised.

3.1 Operational Policies of World Bank

The safeguard policies, the triggers for each policy, as well as the status of their relevancy for the proposed project are presented in the table below:

Operational Policy	Key Features	Applicability
Involuntary Resettlement (OP 4.12)	Physical relocation and land loss resulting in: (i) relocation or loss of shelter; (ii) loss of assets or access to assets; (iii) loss of income sources or means of livelihood, whether or not the affected people must move to another location.	Not Applicable The sub-project has no impact on any private asset.
Indigenous Peoples (OP 4.10)	If there are indigenous peoples in the project area, and potential adverse impacts on indigenous peoples are anticipated, and indigenous peoples are among the intended beneficiaries.	Not Applicable The sub-project does not adversely impact any Schedule caste/tribe population.
Physical Cultural Resources (OP 4.11)	The policy is triggered by projects which, prima facie, entail the risk of damaging cultural property (e.g. any project that includes large- scale excavations, movement of earth, surface environmental changes or demolition).	Not applicable No impact on any cultural resources.

Table 8: World Bank's Operational Policies

3.2 World Bank's Environment Health and Safety Guidelines

The Environmental, Health, and Safety (EHS) Guidelines are technical reference documents with general and industry-specific examples of Good International Industry Practice (GIIP).

The EHS Guidelines contain the performance levels and measures that are generally considered to be achievable in new facilities by existing technology at reasonable costs. Application of the EHS Guidelines to existing facilities may involve the establishment of site-specific targets, with an appropriate timetable for achieving them. The applicability of the EHS Guidelines should be tailored to the hazards and risks that may occur in the sub-project on the basis during pre-construction, construction, and operation phases.

3.3 National & Policies of U.T. of J&K

S.No.	Acts/Policies/Rules	Relevance to this project	Applicability in the sub-project
1	The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 The old act is Land Acquisition Act, 1894 and it is replaced by the new Act RFCTLARR,2013	The Act has provisions to provide fair compensation to those whose land is taken away, brings transparency to the process of acquisition of land to set up factories or buildings, infrastructural projects, and assures rehabilitation of those affected.	Not Applicable. This sub-project does not have adverse impact on private assets.
2	State Land Acquisition Act 1990 (1934 AD)	The State Land Acquisition Act1990 (1934 AD) is in force in the state of Jammu and Kashmir. This Act provides the legal framework for land acquisition for public purposes in J&K. It enables the State Government to acquire private lands for a public purpose, and seeks to ensure that no person is deprived of land except under the Act.	Not Applicable. This sub-project does not have adverse impact on private assets.

Table 9: Applicable National & Policies of U.T. of J&K

S.No.	Acts/Policies/Rules	Relevance to this project	Applicability in the sub-project
5	Jammu and Kashmir Common Lands (Regulation) Act, 1956	An Act to regulate the rights in common lands. Provide relief to the user of the lands, used for common purposes like roads, streets, lanes, pathways, water channels, drains, wells, tanks, or any other source of water supply to the villagers in general. Provision for the prohibition of encroachments over such common lands and public places and eviction thereof and in case of encroachments, to restore the rights of the users. Provision for assigning land for extension of "Village Abadi", if existing land is inadequate for the habitation of the villagers at any point of time.	There is no requirement of common land for this sub-project. Therefore, it's not applicable.

3.4 Other Central and State acts which may be applicable in the Subproject:

- Minimum Wages Act, 1948
- Contract Labor Act, 1970
- The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013
- The Bonded Labor System (Abolition) Act, 1976
- Child Labor (Prohibition and Regulation) Act 1996 along with Rules, 1988
- Children (Pledging of Labor) Act, 1933 (as amended in 2002)
- The Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995
- The Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Rules, 1996
- Untouchability Offences Act, 1955
- The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act, 1989
- The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Rules, 1995

- Disaster Management Act 2005: specifies that while providing compensation and relief to victims of disasters there shall be no discrimination on the grounds of sex, caste, community, descent or religion.
- The Jammu and Kashmir Protection of Human Rights Act 1997
- The Jammu and Kashmir Natural Calamities Destroyed Areas Improvement Act, 1955:
- The Jammu and Kashmir Right to Information Act 2004
- Backward Classes Commission Act, 1997
- Persons with Disabilities Act, 1998
- J&K Reservation Act, 2004

4. Socio-Economic Profile of the Project Impact Area²

4.1 Physical features

Bandipora is newly carved District from erstwhile Baramulla District .The district is surrounded by Himalayan Mountains having Kargil District on north, Kupwara in West, Baramulla in south and Ganderbal in east. The district is a hilly & backward district with moderate climate. District Headquarters Bandipora is well connected by road . Bandipora is about 47 KM by road to Srinagar,(Capital of Jammu & Kashmir).

4.2 Location and size

The District Bandipore lies between 34.4167N latitude to 74.6500E longitude and is one of the districts of oval shaped Kashmir valley on the height of 1,581 to 1,578 meters. The total area of the district is 345 sq. km and it ranks 14th in the stated in the State.

4.3 Physiography

Bandipore is situated on the banks of Wular, the largest fresh-water lake in Asia which is home to a lot of migratory birds. Inadvertent dumping of the polluted river waters and sewage affluence has led to a pandemic growth of algae in the waters of the Wular which is threatening the lake and its supporting life itself. The main source of pollution to Wular Lake is Jhelum River. Jhelum River carries all the wastes from Srinagar city and other surrounding areas and deposits it in Wular Lake. Despite being the richest wetland of South Asia and Largest Fresh Water Lake in Asia, no steps have been taken to save Wular Lake. Bandipore is also a stepping town to the higher reaches of Razdan, Gurez and Tragbal.

The famous Lolab valley in Kupwara district is adjacent to the Bandipore. It is just 30 km from Bandipore via Aaloosa village. Once this road is upgraded it will become a lifeline of the Lolab valley and it will provide an additional route to the Kupwara district. Bandipore was the connecting link between North India and Central Asia via the Silk Road. At Pazalpora village there was a custom and immigration department which is now a forest check post. There are strong links between Skardu,Gurez and Bandipore.

4.4 Drainage

The valley of Kashmir forms an important geographical region known as "The Lesser Himalayas" or "The Jhelum Valley" while as the other two regions of the state are "The Outer Himalayas" or "The Southern Mountain Region" (Jammu Province) and "The Inner

² Source: https://www.censusindia.gov.in/2011census/dchb/0108_PART_B_DCHB_BARAMULA.pdf

Himalayas" or "the Indus valley (Ladakh and frontier areas). Famous for its rivers, singing streams and beautiful lakes, the valley of Kashmir is interwoven with rivers, streams,

Nallahs, springs and underground water resources. The major river Jhelum of the valley carries the waters of host of streams that flow down from the bordering mountains, main sources which provide water to river Jhelum are NallahBringi, Arapathol, Lidder Arapal, Harwan, Sind, Arin, Madhumati, Pohsu,Viji-Dakil on its left side by Vishav (river), Romsi, Ara Sarsara, Rammunshi, Dodhganga, Sukhnag, Feroze Pora nallah and Ningal. It is the principal river of the valley called locally "Veth" the name Jhelum it has got from the town in the Punjab beneath which it flows

4.5 Climate

The climate of the district is more or less similar to that of other districts of the valley. Areas situated at higher altitudes experience severe cold for major part of the year and are not accessible for more than three months. The district has more temperate climate in summer than in Srinagar. Owing to the proximity of Pir Panjal ranges the three sides of the district are enclosed by high mountains which obstruct the monsoon winds to reach the district and air from Punjab does not freely circulate in the area. The district including the other parts of valley has long period of winter.

4.6 Soils

Kashmir valley the heaven on the earth is known for its paddy, saffron, orchards and stately trees are grown on soils. The study of soils as found in the valley assumes a great significance. According to recent soil surveys conducted a wide spread tendency towards acidity has been detected. Green manuring, legume plant cultivation and liming of soils have been advised as the measures to enrich these soils by soil scientists. The soil on the flanks of the river Jhelum is most fertile as it gets periodically renewed and enriched with fresh deposition of slit by recurrent floods. The soils on highlands and Karewas are different at different places and their fertility depends upon the site, nature of soil and altitude of the places. According to the intensive study of the soils conducted in the valley, the bottoms are covered with alluvial soils rich in organic matter and nitrogen content

4.7 Flora and Fauna

Flora

Floristic wealth found in different parts of the district is the outcome of the environmental complex like physical configuration, altitude, soil and climate variables. The vegetation in

the region underwent a tremendous change during the glacial phase of the Pleistocene. During this period the Pir Panjal mountain range prevented the southwest monsoon from entering the valley. Thus broad leaf evergreen species disappear to a large extent and a coniferous type of vegetation grows in abundance. The flora of Kashmir displays a vivid transition from a narrow beet of sub-tropical through temperature, sub-alpine to alpine zones. The marshes swamps and lakes form important habitats in the district and support characteristic halophytic, reed-swamp and hydrophilic vegetation respectively.

Fauna

The rich water resources in the shape of lakes, springs and streams enable various species of fish to grow in abundance. The charming-side valleys of varied scenery and meadows covered with lovely self-growing wild flowers of all colors attract different kinds of birds during different seasons of the year and thus enrich the bird life in this district. A large variety of birds particularly ducks in large flocks, fly to Kashmir in winter and some of them also breed here.

4.8 Population

As per population results of 2011 Census District Bandipore accounts for 392232 persons comprising of 207680 males and 184552 females.

4.9 Sex Ratio

According to census 2011, district had a sex ratio of 889 females for every 1000 males

4.10 Literacy

Average literacy rate of Bandipora in 2011 were 56.28 compared to 39.01 of 2001. If things are looked out at gender wise, male and female literacy were 66.88 and 44.34 respectively.

4.11 Cropping Patterns

The agriculture system and cropping pattern of the district are largely governed by the terrain, slope nature of soil, the prevailing agro climatic, socio-economic condition and proportion of area under various crops at a point of time is known as cropping pattern.

Yea r	Pad dy	Mai ze	Wh eat	Gri m	Oth er Mill ets	Pul se	Tot al Foo d	Fru its	Vegeta bles	Spi ces	Oth er foo d	Tot al food	Fod der	Oil see ds	Tot al area sow
											cro ps				n

Table 10: Area under crops (in hectares)

20	97	50	00	15	271	17	168	23	910	00	00	200	118	52	217
08-	33	83				58	60	04				74	1	5	00
09															

Source: - District Statistical Handbook (2008-09)

4.12 Horticulture

Horticulture plays an important role in the development of economy of the district. A major portion of land is under fruit trees among these the most important are 1) Apple 2) Walnut 3) Almond 4) Grapes 5) Pears and 6) Cherry. Horticulture has assumed great importance in the state and makes a handsome product contribution to the state domestic product. An area of 7016 Hectares has been brought under fruit orchards.

4.13 Irrigation

Major portion of cultivable land has irrigation facilities. According to the data supplied by Planning Department the gross area irrigated in the year 2008-09 stood at 11890 hectares. Irrigation is mainly provided by canals and only a small portion of land is irrigated by other sources of irrigation.

4.14 Animal Husbandry

Livestock rearing is an important occupation of villagers of the valley, folks in general and migratory population in particular. Every effort is made by the Government to provide proper health coverage and high quality breeding facilities, so as to improve the health quality of animals. Livestock census conducted in the district accounts for below given livestock heads:

Species	Number of heads/birds				
1	2				
1. Cattle	113343				
2. Buffalo	922				
3. Sheep	183300				
4. Goats	53170				
5. Other (Specify)	0				
Total	350735				
Poultry Birds	239452				

Table 11: Livestock and Poultry population as per livestock census (2008-09)

4.15 Socio-Economic Profile of Sub-Project villages

The socio-economic profile of the village falling under the proposed sub-project is given below:

Village Shadi Pora- Shadi Pora is a large village located in Sonawari Tehsil of Bandipora district, Jammu and Kashmir with total 246 families residing. The Shadi Pora village has population of 2021 of which 1069 are males while 952 are females as per Population Census 2011.

In Shadi Pora village population of children with age 0-6 is 272 which makes up 13.46 % of total population of village. Average Sex Ratio of Shadi Pora village is 891 which is higher than Jammu and Kashmir state average of 889. Child Sex Ratio for the Shadi Pora as per census is 1030, higher than Jammu and Kashmir average of 862.

Shadi Pora village has lower literacy rate compared to Jammu and Kashmir. In 2011, literacy rate of Shadi Pora village was 46.48 % compared to 67.16 % of Jammu and Kashmir. In Shadi Pora Male literacy stands at 51.12 % while female literacy rate was 41.15 %.

In Shadi Pora village out of total population, 903 were engaged in work activities. 43.63 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 56.37 % were involved in Marginal activity providing livelihood for less than 6 months. Of 903 workers engaged in Main Work, 154 were cultivators (owner or co-owner) while 14 were Agricultural labourer.

Village Rakh Shilvat- Rakh Shilvat is a large village located in Sonawari Tehsil of Bandipora district, Jammu and Kashmir with total 507 families residing. The Rakh Shilvat village has population of 3771 of which 2039 are males while 1732 are females as per Population Census 2011.

In Rakh Shilvat village population of children with age 0-6 is 619 which makes up 16.41 % of total population of village. Average Sex Ratio of Rakh Shilvat village is 849 which is lower than Jammu and Kashmir state average of 889. Child Sex Ratio for the Rakh Shilvat as per census is 715, lower than Jammu and Kashmir average of 862.

Rakh Shilvat village has lower literacy rate compared to Jammu and Kashmir. In 2011, literacy rate of Rakh Shilvat village was 43.27 % compared to 67.16 % of Jammu and Kashmir. In Rakh Shilvat Male literacy stands at 54.35 % while female literacy rate was 30.66 %.

In Rakh Shilvat village out of total population, 1653 were engaged in work activities. 41.62 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 58.38 % were involved in Marginal activity providing livelihood for less than 6 months. Of 1653 workers engaged in Main Work, 303 were cultivators (owner or co-owner) while 47 were Agricultural labourer.

Village Tirgam- Tirgam is a large village located in Sonawari Tehsil of Bandipora district, Jammu and Kashmir with total 592 families residing. The Tirgam village has population of 4485 of which 2276 are males while 2209 are females as per Population Census 2011.

In Tirgam village population of children with age 0-6 is 732 which makes up 16.32 % of total population of village. Average Sex Ratio of Tirgam village is 971 which is higher than Jammu and Kashmir state average of 889. Child Sex Ratio for the Tirgam as per census is 781, lower than Jammu and Kashmir average of 862.

Tirgam village has lower literacy rate compared to Jammu and Kashmir. In 2011, literacy rate of Tirgam village was 37.81 % compared to 67.16 % of Jammu and Kashmir. In Tirgam Male literacy stands at 46.06 % while female literacy rate was 29.66 %.

In Tirgam village out of total population, 1360 were engaged in work activities. 49.56 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 50.44 % were involved in Marginal activity providing livelihood for less than 6 months. Of 1360 workers engaged in Main Work, 243 were cultivators (owner or co-owner) while 55 were Agricultural labourer.

Village Najin-Najin is a medium size village located in Sonawari Tehsil of Bandipora district, Jammu and Kashmir with total 147 families residing. The Najin village has population of 1370 of which 742 are males while 628 are females as per Population Census 2011.

In Najin village population of children with age 0-6 is 221 which makes up 16.13 % of total population of village. Average Sex Ratio of Najin village is 846 which is lower than Jammu and Kashmir state average of 889. Child Sex Ratio for the Najin as per census is 700, lower than Jammu and Kashmir average of 862.

Najin village has lower literacy rate compared to Jammu and Kashmir. In 2011, literacy rate of Najin village was 26.46 % compared to 67.16 % of Jammu and Kashmir. In Najin Male literacy stands at 32.52 % while female literacy rate was 19.55 %.

In Najin village out of total population, 236 were engaged in work activities. 89.83 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 10.17 % were involved in Marginal activity providing livelihood for less than 6 months. Of 236 workers engaged in Main Work, 96 were cultivators (owner or co-owner) while 2 were Agricultural labourer.

Village Gund Khalil- Gund Khalil is a large village located in Sonawari Tehsil of Bandipora district, Jammu and Kashmir with total 312 families residing. The Gund Khalil village has population of 2164 of which 1142 are males while 1022 are females as per Population Census 2011.

In Gund Khalil village population of children with age 0-6 is 200 which makes up 9.24 % of total population of village. Average Sex Ratio of Gund Khalil village is 895 which is higher than Jammu and Kashmir state average of 889. Child Sex Ratio for the Gund Khalil as per census is 739, lower than Jammu and Kashmir average of 862.

Gund Khalil village has lower literacy rate compared to Jammu and Kashmir. In 2011, literacy rate of Gund Khalil village was 48.93 % compared to 67.16 % of Jammu and Kashmir. In Gund Khalil Male literacy stands at 54.63 % while female literacy rate was 42.69 %.

In Gund Khalil village out of total population, 1467 were engaged in work activities. 26.31 % of workers describe their work as Main Work (Employment or Earning more than 6 Months) while 73.69 % were involved in Marginal activity providing livelihood for less than 6 months. Of 1467 workers engaged in Main Work, 98 were cultivators (owner or co-owner) while 75 were Agricultural labourer.

5. Analysis of Alternatives

For this sub-project, the analysis of alternatives has been made, considering the "with and without project scenarios" which considered the potential social impacts, both positive and negative, of the sub-project.

5.1 'Without' and 'With' Project Scenario'

5.1.1 'Without' Project Scenario

Development of the project road is essential for the betterment economy of Kashmir Province. Categorically, it is a single-lane road falling under plain terrain, having low to moderate intensity of commercial vehicles. During heavy rain in the year 2014, the alignment was severely damaged and connectivity with villages cut off for few weeks time. Project road passing through several habitations like Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeit having population more than 1000.

5.1.2 'With' Project Scenario

District is famous for fruits such as apple, apricot, plum almond etc. proposed sub-project will facilitate the movement of fruit growers to the markets and therby will save their time also. Restoration of roads will also serve as supply/rescue lines in the event of a disaster. Since the existing road stretch is in poor condition, therefore its upgradation and improvement will provide people access to avail basic services such as schools, hospitals, district headquarters throughout year. The sub-project will not require any private land acquisition and is not impacting any other private asset. This has been confirmed through discussion with engineers from PIU and PMU, JTFRP (Kashmir division) and certified by them as well.

The sub-project will not require any private land acquisition and will not impact any other private asset. This has been confirmed through discussion with engineers from PIU and PMU, JTFRP (Kashmir division) and site visits done by technical team of DPR consultants. Further, Project Manager (Transport, Kashmir division), JK, ERA, vide letter no ERA/PMT/20/1126 dated 07.09.2020 has issued an encumbrance free certificate which confirms that upgradation and strengthening of the road for a length of 12.688 kms under JTFRP shall be restricted to the existing and available RoW which is 5.50m (annexure 3).

6. Stakeholder's Consultation

Stakeholder's Consultation is basically concerned with involving, informing and consulting the public in planning, implementation and other decision-making activities. It tries to ensure that due consideration is given to public views, concerns, and preferences when decisions were made.

One of the key aims of the stakeholder engagement exercise is to ensure that all relevant stakeholders are provided with the opportunity to express their concerns and opinions, which are incorporated as early as possible in the project development: at planning, implementation and operation phase and in the efforts to minimize the potential unexpected opposition of the proposed project and potential adverse effects to the environment and society at large.

6.1 Identification of Stakeholder

Stakeholder's identification is the process of identifying stakeholders considering the legitimate representatives or the project-affected groups and whose views should take precedence in stakeholder consultations. Good practice suggests that as long as stakeholder groups are offering a perspective that is relevant to the project, there is no need to determine whether these stakeholder groups are the main representatives of the stakeholders or not. Since the sub-project does not have any adverse impact in terms of land or asset acquisition, therefore, the key stakeholders in the project corridor were the local people, Gram Panchayat, PIU and PMU.

6.2 Objective of Stakeholder's Consultation

The specific objectives of the consultations are geared towards:

- Informing the stakeholders about the project and its potential impacts.
- Obtaining local and traditional knowledge that may be useful in decision making.
- Facilitating consideration of alternatives, mitigation measures, and trade-offs (if any).
- Ensuring that important impacts are not overlooked and benefits are maximized
- Reducing chances of conflict through early identification of contentious issues
- Providing an opportunity for stakeholders to influence the Project design and operational plan in a positive manner.
- Improving transparency and accountability of decision making.
- Increasing public confidence in the SIA process.

- To gather baseline data for assessment of impacts (both direct and indirect) on the communities of the project area;
- To suggest appropriate mitigation measures to effectively manage potential adverse impacts;
- To do the socio-economic profiling of the project;
- To involve Gram Panchayat and its member's in the SIA study and project activities.
- To involve the stakeholders especially the people of the project impact area in the project activities.

6.3 Approach for Consultation

A very sensitive and pro people approach was adopted to engage locals in the sub-project activities. Probable minimal impacts during construction period along with other project related information were shared with the concerned stakeholders in order to instil faith and confidence among them about the proposed project and its activities.

Following steps were taken to engage stakeholders.

- 1. Site visits and informal meetings with the local to know their views and perceptions about the sub-project.
- 2. Reconnaissance survey and transect walks.
- 3. Informing the locals about probable non-significant temporary impacts during construction period
- 4. Understanding their needs and requirement.
- 5. Collection of Baseline information.

6.4 Details of Public Consultation in sub-project road

Public consultations had been organised in the nearby villages to disseminate the project concept and plan among the stakeholder. Consultations were conducted successfully with the people of Shadipora and khanpeth villages on 15.09.2019 (annexure 9).

6.5 Information's Shared

The following information was shared with the people:

- About project and its source of assistance, its implementation/execution etc.
- Information on perceived benefits from the proposed sub-project including travel time, fuel costs, noise, and air pollution.
- Information of perceived losses from the proposed sub-project during execution stage in terms of inconvenience to public, air and noise pollution, etc.

- Occurrence of disaster like floods, cloud burst in past.
- Construction activity whether causing any type of health hazard or not? And mitigation measures.
- Discussion among the public for sharing of information related to project, environment policy of World Bank direct and indirect impacts of improvement/ construction work on the environment.
- Any loss of land/structure/ business or other community property due to construction activity?
- Safeguarding of religious/ cultural places like Mosques, Shrine along project road during the construction phase.
- Any impact on trees and measures to be taken for saving scheduled trees in close vicinity of the proposed road.
- Possible types of problems faced by the locals in their daily activities due to construction work.
- Livelihood generation by involving local labour with the project during the construction stage of the project.

PIU,ERA (Kashmir division) ensured that the requisite social management measures shall be incorporated in SMP and public consultation shall be a regular process during all stages of the sub-project execution to solve any issues arising out of proposed works.

6.6 Feedback received

People have expressed keen interest in the proposed sub-project. The local people are expecting a good road to be developed and are aware of the upcoming work. People, in general, were very enthusiastic about the benefits of the sub-project in terms of reduction in travel time and fuel cost. The major problems faced by people is related to the dilapidated condition of the existing road. In the time of emergency, like accidents, fast commutation is very difficult and sometimes impossible during rainy and winter. People are ready to extend all types of support during the execution of the sub-project as their major difficulties will overcome after completion of the sub-project. The sub-project during the construction stage will generate employment opportunities for locals.

7. Analysis of Social Impacts

7.1 Impact on Land

The total length of the sub-project road for reconstruction is 6.0 KMs. The average width of the existing carriageway varies from 2.75 m to 3.00 m with an average shoulder width of 1.00 m resulting in the average formation width varies from 4.75 m to 5.00 m. The proposal is to develop it to the intermediate level for whoch encumberance free RoW is available.

Project Manager (Transport, Kashmir division), ERA, JTFRP vide letter no ERA/PMT/20/1/19 dated 07.09.2020 provided a non-encumbrance certificate which confirms that the sub-project road does not have any temporary or permanent structure in the whole stretch (annexure 3). The letter issued by the Project Manager, also refers the certificate (letter no. CE/RBK/HD/7165, dated 14.06.2019) issued by the Chief Engineer, PWD(R&B) department in which it has been mentioned that the existing RoW in the sub-project road is 5.50 meters (Annexure 4).

The revenue record of the proposed sub-project could not be obtained from the concern department by JK ERA. Since the revenue record of the proposed sub-project was not available, therefore PMU, JTFRP published a notice in the two local newspapers namely "The Daily Tameel Irshad" and "Kashmir Images" on 15.09.2021 (annexure 5) informing general people and those who are likely to be benefitted/affected in particular, about the upgradation of this road sub-project within the existing right of way under World Bank funding. It also called for any objection from the local people regarding use of RoW, along with supporting documentary evidence within 07 days of publication of the notice in the newspaper. The office of Director safeguards did not receive any objection or claim from anyone even after the lapse of one month of the publication of notice in two local newspapers. Thereafter, Director Safeguards issued an official letter vide no. ERA/DSG/PS/94-99 dated 25.10.2021 regarding encumbrance free RoW detailing therein the process followed to reconfirm the ROW ownership status (annexure 6).

Therefore, on the basis of certificate issued by Project Manager (Transport, Division Kashmir), site visits, approved DPR and notice published in the newspaper it can be said that the sub-project does not have any adverse impact on the assets such as structures, land or on livelihood of anyone.

However, during execution, if there will be any unanticipated impact in terms of land requirement or acquisition of any asset, same shall be brought into the notice of the World Bank and it will be addressed as per the applicable provisions given in the ESMF of the Project, applicable WB policies and that of U.T of J&K.

7.2 Impacts on Structures

The proposed alignment is devoid of any structure i.e. residential, commercial, and religious or any CPR. Same has been confirmed by the Project Manager (Transport, Kashmir division) by issuing a a non-encumbrance certificate (vide letter no ERA/PMT/20/1/19 dated 07.09.2020) which confirms that the sub-project road does not have any temporary or permanent structure in the whole stretch (annexure 3). Strip plan of the road annexed as Annexure 7 also confirms that there is no structure inside the alignment of the proposed road.

7.3 Impacts on Livelihood

There is no commercial structure either temporary or permanent in the proposed alignment of the road. Further, there is no squatter on the road earning livelihood by using the available RoW and none has encroached upon the road. Therefore, there will be no impact on livelihood in the project corridor due to this project.

8. Mitigation Measures

8.1 Social Management Plan

The Social Impact Assessment study does not envisage any significant adverse impact of the sub-project i.e. there is no involuntary displacement and land acquisition. Further, there is no temporary or permanent impact of any kind on the livelihood of people. Structures proposed shall be improved in the existing RoW. Technical department from PMU & PIU JTFRP have made required modifications in design at initial stages to avoid negative impact as a part of mitigation measures.

The Social Management Plan suggests the mitigation measures needs to be adopted during execution to deal with unanticipated impact of the sub-project.

8.2 Objectives

The main objective of the Social Management Plan is to mitigate the various adverse social impacts which may arise during the pre-construction, construction, and post-construction of the sub-project. The objective of SMP in preconstruction, construction & post-construction stages are as follows:

Pre-construction Stage:

To discuss the design and technical proposal with the stakeholders to know their suggestions and inputs. To inform them about the project, its funding, land requirements, and policies and guidelines of funding agencies and applicable to the project.

Construction Stage:

To ensure that the provision of the SMP (Social Management Plan) is strictly followed and implemented by strengthening implementation arrangement.

To address the construction stage social impacts arising due to various project activities en route the corridor and particularly at habitations through specific measures that need to be applied across and certain specific measures that shall be determined on a case by case basis.

Post-construction Stage:

To ensure that all the issues that arose during the construction stage shall be addressed properly. In case land and other assets utilized by the EA or contractor shall be restored to the satisfaction of communities and owners of that assets.

8.3 Scope

The Social Management Plan (SMP) in the sub-project, consists of the set of mitigation, monitoring and institutional measures to be taken during the pre-construction, construction, and operation stages of the project to eliminate adverse social impacts, to compensate them, offset them, or to reduce them to acceptable levels following the mitigation hierarchy. The plan also includes the actions needed for the implementation of these measures.

The major components of the Social Management Plan are:

- Mitigation of potentially adverse impacts;
- Integration of SMP with Project in construction and operation phases;
- Institutional Capacity Building and Training;
- Monitoring during project implementation and operations;

8.4 Context for the SMP

This Social Management Plan for Shadipura to Khanpeth sub-project road is based on Social Impact Assessment study during which site visits were carried out in the project corridor. Consultations and meetings were conducted with the people and project design was discussed and evaluated on the ground.

The sub-project does not have any impact on private land and all the construction activities will be carried out within the available ROW. There would be no impact on the private assets, CPRs and any other religious property due to any project activities. Project Manager (Transport, Kashmir division), ERA, JTFRP vide letter no ERA/PMT/20/1/19 dated 07.09.2020 provided a non-encumbrance certificate which confirms that the sub-project road does not have any temporary or permanent structure in the whole stretch. The letter issued by the Project Manager, also refers the certificate (letter no. CE/RBK/HD/7165, dated 14.06.2019) issued by the Chief Engineer, PWD(R&B) department in which it has been mentioned that the existing RoW in the sub-project road is 5.50 meters. There can be few temporary impacts due to construction activities and to address these impacts, a Social Management Plan has been prepared which lays down mitigation measures that needs to implemented for any impact on site. SMP will be implemented by the contractor under the supervision of PMU & PIU, JTFRP.

8.5 Methodology for SMP Preparation

The comprehensive social management approach for the project involves following key steps and processes.

- Screening of social impacts during the SIA study
- Public consultation with the stakeholders.
- Discussion of Technical Proposal with the stakeholders.
- Transect walk and Identification of issues that can crop up during the construction stage.
- Development of measures aimed at avoiding, mitigating, and offsetting, or reducing impacts to levels that are socially accepted during implementation and operation of the project road.

8.6 Probable social issues that may arise during the construction stage

- Loss of land due to land-slides resulting from hill cutting activities.
- Cracks in structures or damage due to construction works e.g. hill cutting activities
- Temporary short duration or prolonged disruption to services such as water supply, power supply etc.
- Temporary Disruption to traffic movement leading to time delays.
- Possibility of gender-based violence arising from influx of migrant labour for construction works.
- Labour influx issues may arise if contractor will employ the manpower from outside
- Labour issues like unequal wages to men and women, discrimination in employment opportunities, Child labour.
- Inconvenience and Nuisance to Public due to accumulation of excavated earth
- Stagnation of water leading to mosquito breeding and public health problems.
- Spread of diseases at construction and camp sites due to influx of labour like HIV AIDs, COVID 19 etc.

8.7 Social Management Plan

Based on the findings and issues identified during SIA study, Social Management Plan has been prepared for the sub-project. The mitigation measures for the potential impacts are presented in form of a matrix according to the sequential flow of activities in the project life cycle. These measures would be further updated by Contractor during the implementation of the SMP. The Social Management Plan will be a part of Bid document.

Table 12: Social Management Plan

Sl.N o.	Project Phase/Activity	Issues/ Potential impacts	Proposed Mitigation Measures	Responsib ility	Monitoring Agency/ Frequency
Planr	ning/Pre-construe	ction Phase			
1	Pre- construction phase	 Sharing of design with the community. Utilization of private land temporarily if required Provision of alternative access to the community for commuting wherever required. Restoration and relocation of Common Property Resources if any 	 Consultation with local community and stakeholder engagement. Written consent from the community or owner of the land required for stocking construction material temporarily. Involving locals wherever any issue arises 	Contractor	PIU
Const	ruction Phase		M	Contractor	
	innux of labor	 Construction Camp Locations Selection, Design, and Lay-out. Conflict with the community due to social and cultural differences with the host community. The potential impact of spreading infectious diseases from labor to the local or vice versa. Possibility of Sexual abuse and assault in the labor camps or otherwise. Drug abuse, gambling, etc. 	 Minimize labor influx as much as possible by engaging the local labour force. Ensure labor camps for the labor (Away from religious places and localities to the extent possible). Awareness of the health and sanitation for the labor. Ensure the least contact between the host community and the labor. Awareness of sexual assault & drug abuse. 	Contractor	Monthly Monitoring
		• Facilities for the Labour in camp and on the worksite	 Providing accommodation facilities to the migrant laborers with proper ventilations. Provision for safe drinking water and appropriate cooking arrangement at labor camps; Provision of Separate toilet and bathing facilities for men and women Provision of medical facility which includes first aid kit at the camp site and also ambulance facility to take patients to the hospital in case of emergency. 	Contractor	PIU/ PMU Monthly Monitoring

SI.N o.	Project Phase/Activity	Issues/ Potential impacts	Proposed Mitigation Measures	Responsib ility	Monitoring Agency/ Frequency
			• Proper drainage facility at the camp site along with water sewerage treatment facilities. No waste water should be discharge to any surrounding area without required permission and proper treatment.		
			 Provision of prayer rooms as per the religious beliefs of the workers. Safe storage facilities for the gas cylinder, petroleum, and other chemicals, used by laborers. 		
			 Proper solid waste collection and disposal system at the camp site. The camp should have proper security arrangements, like a Security fence. 		
			 Preparing a code of conduct for the migrant workers. Conducting awareness programme about sexually transmitted diseases among the migrant workers, laborers and for the community around project site; 		
			 Awareness program on COVID-19. Provision of hand sanitizer, masks in the labor camps 		
			 Provision a separate accommodation for COVID- 19 infected labors or persons engaged by the contractor. 		
			 Provision of creche on site for children. Training programs for construction workers in basic sanitation and health care issues (e.g., how to 		
			avoid malaria and transmission of sexually transmitted infections (STI) HIV/AIDS. • Labour Registration		
			 Awareness program for labor rights No employment of child 		

Sl.N o.	Project Phase/Activity	Issues/ Potential impacts	Proposed Mitigation Measures	Responsib ility	Monitoring Agency/ Frequency
			labor.		
		• Registration of Complaints received from labor.	 Arrangement to register and redress the grievance of workers. Grievance Redressal System for the project to address such issues including sexual harassment at the workplace 	Contractor	PIU/ PMU Monthly Monitoring
		 Equality of opportunity to work. Equal Pay for equal work Preference to the Women Laborers 	 To be ensured throughout the project cycle. Maintenance of payment registers by the contractor. 	Contractor,	PIU/ PMU Monthly Monitoring
3	Community Health and Safety	 Injury & sickness due to construction work and movement of heavy vehicles, contamination, or other natural or human-made hazards. 	 Provision of access to the community, shops, religious places during the construction phase. Better marking and signage. Provision of alternative transportation routes for vehicles and ambulances wherever required. Undertaking regular surveillance at the site to check on Hygiene conditions for disease control. Treating mass awareness on HIV and STDs and COVID-19. Ensure the least contact between the labor and the local population. Sharing grievance redressal system with the community and displaying contact numbers at the site to register any grievances due to the project. contamination of water bodies due to stocking of construction material etc. Safeguarding pedestrians' safety including women, children. During construction of side, drains provide temporary/safe access to shops, kids, hospital/clinic, religious places, etc. Community Consultation 	Contractor	PIU/ PMU Monthly Monitoring
Λ	Occupational	• Injury and cicknoss of	Community Consultation Provide training on health	Contractor	
4	health and safety	labor	 Provide training on health and safety to all the workers. Provide PPE to workers as 	Contractor	Monthly Monitoring

SI.N o.	Project Phase/Activity	Issues/ Potential impacts	Proposed Mitigation Measures	Responsib ility	Monitoring Agency/ Frequency
			 per work requirements. Regular checking of body temperature and other symptoms among the laborers for COVID-19 and maintaining a register. Awareness program on COVID-19. Provision of hand sanitizer, masks in the labor camps and on the sites. Displaying of COVID-19 help line numbers on-site as well as in labor camps. Provide separate toilets for male and female labor at the construction site Provide safe drinking water at the construction site. Providing a separate resting area at the site for breaks during the work period Provide adequate lighting in the construction area and along the roads. Conduct an initial health screening of the laborers working at the construction site, especially those who are coming from outside the project area. Provide first aid facility at the construction site Provide HIV awareness programming, including STI (Sexually Transmitted Infections) and HIV information, education, and communication for all workers on regular basis. 		
5	Gender-Based Violence	 Sexual Exploitation and Abuse (SEA) Workplace Sexual Harassment Human Trafficking Non-SEA 	 Awareness program for the Contractors, Local Communities, and laborers on national laws. Introducing a worker's code of conduct. Displaying of various legal provisions on-site, in labor camps, and at prominent locations in the project area. Ensure that complaints of GBV registered and maintained confidentially in a register. Strict code of conduct for 	Contractor	PIU/ PMU Monthly Monitoring

Sl.N o.	Project Phase/Activity	Issues/ Potential impacts	Proposed Mitigation Measures	Responsib ility	Monitoring Agency/ Frequency
			workers with no tolerance for physical or verbal abuse of women or children.		
Post (Construction Phase				
6	Rehabilitation of site used for camp, storage etc.	 Handing over temporarily used private/ community land to the landholders/ community by the contractor without restoration work and payment of dues/ lease amount. Non-removal of debris and other construction material from the site. 	 Consultation with the private party or Community and restoration of their land. Removal of non-used left over construction material from the site. Payment of lease amount/rent, if any due, to the private party or community for utilization of their resources. 	Contractor	PIU/PMU Within one Month

8.8 Gender Action Plan

8.8.1 Status of Women in J&K

Women constitute around 47% of the total population of the State. The development of women, no doubt, has been a part of the development planning process right from the inception of Five Year Plans but the shift in approach from welfare to development toward women took place in a focused manner in the 6th and 7th Five Year Plans. The 8th Five Year Plan promised to ensure that benefits of development do not by-pass women. The 9th Five Year Plan changed the strategy for women from development to empowerment and emphasis on preparation of a separate Women Component Plan (WCP) by identifying specific Schemes/Projects having a direct bearing on the welfare and development of Women. The 10th Five Year Plan further strengthened the implementation of the Women Component Plan (WCP).

Moreover, the Women and Child Development Department in the Ministry of Social Justice and Empowerment has also enjoined upon the states to monitor closely the flow of benefits of various schemes for the empowerment of women on regular basis. These initiatives have helped in improving the status of women in various spheres to a great extent, but the imbalance still exists which needs to be addressed over the years. The 11th Plan had taken numerous steps forward. However, the targets set out could be only partially achieved. In the 12th plan, the Government's priority would be to consolidate the existing initiatives and interventions relating to women, build upon the achievements and also move beyond to respond to new challenges. The female population of J&K State slashed down from 47.15% of the total population in 2001 to 46.88% in 2011. As per details from Census 2011, Jammu and Kashmir have a population of 1.25 Crore souls over the figure of 1.01 Crore in the 2001 census. The total population of Jammu and Kashmir as per the 2011 census is 12,548,926 of which male and female are 6,665,561 and 5,883,365 respectively indicating a reduced sex ratio of 883. The corresponding figures of male and female as per Census 2001 were 5,360,926 and 4,782,774 respectively indicating a sex ratio of 892. Sex ratio (females per thousand of males) is an important indicator of the social conditions particularly for women's status in any society.

The low sex ratio shows indulgence of artificial interventions, distorting the biological trend and natural balance in terms of the number of females per thousand males. An important concern in the present status of Jammu and Kashmir's demographic transition relates to the adverse sex ratio. The sex-ratio as per census 2011 was 883 which is a matter of great concern and needs to be addressed on priority. Education of the women is very effective tool for women's empowerment not only from the point of view of literacy, but it has inter-linkage with other social parameters viz. population growth, health care, education of children, etc. It enables rural women to acquire new knowledge and technology, required for improving and developing their tasks in all fields, besides availing new opportunities and combating emerging challenges of a dynamic society.

Female education is essential for higher standards of health and improved "maternal competence" which leads to lower infant mortality. It also raises women's economic productivity. Despite its linkage to so many positive outcomes and the progress made over the past 50 years, female literacy remains low in J&K State as compared to men. Jammu and Kashmir's literacy rate has increased by 13% in the last decade i.e. from 55% in the 2001 Census to 68% in the 2011 Census. While female literacy has increased from 42.22% in the 2001 Census to 58.01% in 2011. Gender differential still exists both in rural and urban areas but it is comparatively higher in rural areas. This can be attributed to some factors viz., lack of access to schools, parents feeling insecure about sending girl children to schools, their engagement in agricultural and other domestic activities, etc. Though still being at a disadvantageous position, the womenfolk are breaking the barriers/shackles to get an equal share in basic human rights. With a higher growth rate than male literacy, the goal is expected to be achieved in near future.

8.8.2 Legal Provision Related to Women in J&K

• J&K Protection of Women from Domestic Violence Act, 2010

- Jammu and Kashmir Juvenile Justice (Care and Protection of Children) Act, 2013
- State Commission for Women Act, 1999

8.8.3 Strategy

Suggestive Actions to be taken in the sub-project

- Ensure participation of vulnerable groups in the project activities.
- Ensuring facilities in construction camps.
- Carrying out other responsibilities towards vulnerable groups.

Suggestions for increasing the Women's Participation in the sub-project

- Allow women to take part in the consultation process. Ensure that the women are consulted and invited to participate in group-based activities, to gain access and control over the resources.
- Encourage women to evaluate the project outputs from their point of view and their useful suggestions should be noted for taking necessary actions for further modifications in the project creating better and congenial situation for increasing participation from women.
- Devise ways to make other vulnerable to participate in the project activities.

Involvement during Construction

Wherever possible, women's involvement in construction activities should be encouraged in order to help them have access to benefits of project activities.

Ensuring Facilities in Construction Camps

Foreseeing the involvement of women, both direct and indirect in the construction activities, PMU, PIU & PMC shall ensure certain measures that are required to be taken by the construction contractor towards welfare and well- being of women and children during the construction phase such as:

- **Temporary Housing:** During the construction, the families of laborers/workers should be provided with residential accommodation suitable to nuclear families.
- **Health Centre:** Health problems of the workers should be taken care of by providing basic health care facilities through health centres temporarily set up for the construction camp.
- **Day Crèche Facilities:** It is expected that among the women workers there will be mothers with infants and small children. Provision of a day crèche may solve the

problems of such women, who can leave behind their children in such a crèche and work for the day in the construction activities. If the construction work involves women in its day-night schedules, the provision of such a crèche should be made available on a 24-hour basis.

- **Proper Scheduling of Construction Works:** Owing to the demand of a fast construction work, it is expected that a 24 hours-long work-schedule would be in operation. Engaging women labour during night services should be avoided by the project or can be permitted only after getting written request from the women labour. In this case crèche facilities in the construction camps must be extended to them in the night.
- **Control on Child Labor:** Minors, i.e. persons below the age of 14 years, should be restricted from getting involved in construction activities. It will be the responsibility of the Social and Environmental experts of PMU, JTFRP to ensure that no child laborers is engaged in the activities. PMU& PIU shall keep strong vigilance to ensure the cessation of such exploitation.

8.8.4 Avoiding Gender based violence

The contractor will prepare and implement robust measures to address the risk of genderbased violence that include:

- Mandatory and repeated training and awareness-raising for the workforce about refraining from unacceptable conduct toward local community members, specifically women;
- informing workers about national laws that make sexual harassment and genderbased violence a punishable offense which is prosecuted;
- introducing a Worker Code of Conduct as part of the employment contract and including sanctions for non-compliance (e.g., termination), and (iv) contractors adopting a policy to cooperate with law enforcement agencies in investigating complaints about gender-based violence.

8.9 Labor influx and Labor Management

Since the construction activities are mostly labor intensive by nature, therefore, it is also envisaged that both local and migrant labor shall be employed by the project. These migrant laborers will be accommodated in a temporary campsite within the project area.

8.9.1 Objectives

The influx of migrant labor will have both negative and positive impacts on the nearby community and local environment. The labor will be accommodated in a temporary campsite within the project area which can have a significant interface with the host community. The influx of migrant workers would lead to a transient increase of population near the project area for a limited time. This would put pressure on the local resources such as roads, fuel for cooking, water, etc. Hence, a plan has been designed to demonstrate the:

- Potential impacts associated with the influx on the host population and receiving environment are minimized;
- Provision of safe and healthy working conditions, and a comfortable environment for migrant labor; and
- To ensure compliance with the national labor laws, including guidance provided on the latest COVID 19 epidemic in the country.

8.9.2 General Requirements

All migrant workers are envisaged to be accommodated in a proper temporary campsite within the project area. If migrant workers are accompanied by their families, provisions should be made accordingly. As per the National Acts, the inclusion of requirements for labor camp to be established by contractors during the construction phase of the project. Contractor(s) shall ensure implementation of the following measures to minimise the potential negative impacts of worker accommodation and workers on local communities:

• **Cleanliness and Sanitization**: Pest extermination, vector control, and disinfection are to be carried out throughout the living facilities in compliance with local requirements and/or good practice. In light of the COVID-19 outbreak

and increased risks to community health and safety and occupational health and safety, the contractor needs to put in place appropriate covid containing provisions.

- **Complaints and incident reporting:** A formal Complaints Procedure will be implemented to ensure the timely and transparent response to complaints as received from labor.
- **Labor education:** The workforce will be sensitized to local social and cultural practices through the provision of an induction course for all employees that stipulates expected behaviour;
- Labor behaviour in the campsite provided: A Code of Behaviour governing appropriate behaviour in the accommodation facilities to be kept in place and to be strictly enforced. The contractor shall ensure implementation of the "rules of engagement" between laborers living in the campsite and community and shall be implemented by construction contractors for all engaged laborers.
- Labor Compensation and Accommodation: JTFRP shall ensure that laborers are provided with benefits such as leave, weekly rest day, etc. Accommodation to be provided for the construction labor which covers facilities (including catering facilities, dining areas, washing and laundry facilities, etc.) and supporting utilities.

8.9.3 Hiring & Recruitment Procedures

- The manpower wherever possible shall be locally recruited by the contractor. The following general measures shall be considered for the workforce during their employment tenure:
- The implementing agency in consultation with the PMU will include a code of conduct relating to the accommodation to be signed with the contract document of contractors.
- The contractor shall not employ any person below the age of 18 years nor will have any forced labor; The construction laborers will be provided with documented information regarding their rights under national labor and employment law such as but not limited to Factories Act, Minimum Wages Act, 1948 Trade Unions Act, and Workmen's Compensation Act; 1923
- The first priority for employment of labor should be given those impacted by the project such as landowners who have lost land / donated land;

- No discrimination shall be done by the construction contractor for recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, termination of employment or retirement, and disciplinary practices;
- The contractor to ensure that work hours are set at eight hours a day, 48 hours a week, with a weekly rest day for all engaged labor;
- Every labor is entitled to a maximum of only two hours a day as Overtime (OT) work. OT pay is twice the hourly remuneration;
- The project will ensure that equal wages for male and female workers for work of equal nature or value is maintained;
- A grievance redressal mechanism for workers to be put in place by the contractor to raise workplace concerns. The workers to be informed about the grievance mechanism at the time of recruitment; and
- The Contractor to ensure that they develop and implement a procedure to review the performance of their sub-contractors.
- The procedure developed should include regular inspection of the campsites, maintaining information of labor sourced by sub-contractors;

8.9.4 Worker's Accommodation

The EA has to supervise and monitor the activities performed by their contractor and accommodation facilities provided in the campsite. The following measures shall be provided:

- The laborers to provide with accommodation made of insulating material and locally available building material, etc. along with storage of personal belongings;
- The migrant workers with families will be provided with individual accommodation comprising bedroom, sanitary, and cooking facilities;
- The units to be supported by common latrines and bathing facilities duly segregated for male and female labor; A minimum of 1 unit to 15 males and 1 unit for 10 females shall be provided;
- The contractor shall provide a canteen facility with the facility to cook food of appropriate nutritional value respecting religious/cultural backgrounds;

- All doors and windows shall be lockable and mobile partitions/curtains shall be provided for privacy;
- Dust bins to be provided for collection of garbage and to be removed daily;
- It is also required to provide first aid box in adequate numbers; and
- Ventilation should be appropriate for the climatic conditions and provide workers with a comfortable and healthy environment to rest and spend their spare time.

8.9.5 Security

The contractors shall put in place the following security measures to ensure the safety of the workers. The following measures shall be incorporated:

- Access to the campsite shall be limited to the residing workforce;
- The contractor shall be responsible for deploying an adequate number of guards;
- Adequate, day-time night-time lighting shall be provided;
- The security personnel shall be provided with training to respect the community traditions and in dealing with, use of force, etc.; and
- The rental accommodation shall be provided with firefighting equipment and portable fire extinguishers.

8.9.6 Provisions for Drinking Water

- Access to an adequate and convenient supply of free potable water is a necessity for workers. The domestic water conforming to the IS 10500:2012 supply shall be made available by the contractor.
- The direct usage of water from bore well should not be allowed;
- The Contractor(s) should regularly monitor the quality of drinking water. In case of non-compliance with the Drinking Water Specifications, additional treatment shall be provided, or alternative sources of water supply shall be arranged; and
- All storage container of drinking water to be monitored from becoming polluted or Contaminated.

8.9.7 Coking Arrangements

- Places for food preparation are designed to permit good food hygiene practices, including protection against contamination between and during food preparation;
- Adequate personal hygiene including a sufficient number of washbasins designated for cleaning hands with clean, running water; and
- All kitchen floors, ceiling and wall surfaces adjacent to or above food preparation and cooking areas are built using durable, non-absorbent, easily cleanable, non-toxic materials;
- Food preparation tables are equipped with a smooth, durable, easily cleanable, noncorrosive surface made of non-toxic materials.
- To ensure that the fuel need of laborers in the project area does not interfere with the local requirements, necessary arrangements for the supply of fuel to the laborers shall be done by the contractor.

8.9.8 Waste Water Generation

- There will of generation of wastewater from the campsite. About 80% of the water used shall be generated as sewage/wastewater.
- Contractors to ensure that the campsite is equipped with a septic tank and soak pit for disposal of sewage. It is also recommended that the stormwater and sewage system should be separated. The surface water drainage shall include all necessary gutters, downpipes, gullies, traps, catch pits, manholes, etc.
- Sanitary and toilet facilities are constructed of easily cleanable materials. Sanitary and toilet facilities are required to be cleaned frequently and kept in working condition.

8.9.9 Medical facilities

The following medical facilities shall be provided by contractors for the construction workers:

- A first-aid centre shall be provided for the labor within the construction site equipped with medicines and other basic facilities;
- Adequate first aid kits shall be provided in the campsite in an accessible place. The kit shall contain all type of medicines and dressing material;

- The contractor shall identify and train an adequate number of workers to provide first aid during medical emergencies;
- Regular health check-ups shall be carried out for the construction laborers every six month and health records shall be maintained;
- Labors should have easy access to medical facilities and first aider; where possible, nurses should be available for female workers;
- First aid kits are adequately stocked. Where possible a 24/7 first aid service/facility is available.
- An adequate number of staff/workers is trained to provide first aid; and
- Information and awareness of communicable diseases, AIDS, etc. shall be provided to workers.
9. Monitoring and Evaluation

The Project requires detailed supervision, monitoring, and evaluation of the impact on the environment and social aspects. Monitoring is the periodical checking of planned activities, which provides midway inputs, facilitates changes, if necessary, and provides feedback to Project Authority for better management of project activities. It helps in making suitable changes and modifications in safeguard documents during project implementation. Evaluation on the other hand assesses whether the activities have achieved the intended goal and objectives. Thus, monitoring and evaluation are critical to measuring the project performance and fulfillment of project objectives.

To carry out this, PMU has made specific arrangements. The executing agency has a dedicated unit to deal with the social and environmental safeguards. This unit is headed by Director Safeguards who is assisted by full-time Social Safeguards and Environmental Experts. To ensure compliance with the World Banks' social safeguard issues Director Safeguards will monitor and evaluate routine activities. Half-yearly Environmental and Social Audit, of ESMF implementation, will be done by the Technical Audits and Quality Control Consultants. Progress on social safeguards and other issues will be flagged in the MPR and QPRs.

9.1 Safeguards Supervision

This will be done by PMU with the support of PIU and consultants. All the sub-projects will be visited at regular intervals by PMU to check if all safeguard requirements are met and to identify any issues that need to be addressed. PMU should submit quarterly progress reports to The World Bank on safeguards implementation.

9.2 Concurrent Monitoring and Quarterly Reporting

The concurrent internal social monitoring will be done as part of the regular monitoring by the PIU, Implementing Agencies, and TAQAC. However, PMU, with the help of an in-house Social Specialist will do the regular social monitoring of sub-projects for safeguards compliance.

9.3 Safeguards Monitoring Plan

Apart from the quarterly monitoring reports submitted to the World Bank, once every year, the PMU will prepare a report of the environmental and social situation in the project districts including data and analysis of relevant parameters as given in the plan below. This report also should give a listing of relevant new legislation and regulations that have a bearing on the environmental and social performance of the project. PMU will submit this report to The World Bank.

9.4 Independent Safeguard Audits

The PMU will appoint Independent Project Implementation Quality Audit Consultants with expertise in social and environmental safeguards to conduct a half-yearly project quality audit, which will include Environmental and Social Audit of selected sub-projects for compliance with the ESMF.

9.5 Right to Information and Disclosure

The Jammu and Kashmir Right to Information Act 2004 gives the right to persons to obtain any document or information relating to the affairs of the state or public body. In addition to the provisions of the above Act, the JTFRP provides for voluntary disclosure of information and project documents in English, Hindi, and Urdu on the Government and implementing agencies' websites for public consumption.

10. Grievance Redressal Mechanism

Grievance Redressal Mechanism is a process to address people's grievances related to land acquisition, resettlement, and rehabilitation, or any other social issue arising out of the project-related activities; executing agency will establish two bodies, one at a local level (site level) and another at District level. In case, the grievances are not resolved at these two levels, then they will be forwarded to R&R Committee at the Divisional level for this project which will be established under the Divisional Commissioner, Jammu/Srinagar. The grievances will be registered at the Project site. The local level grievance committee will try to resolve the case in a maximum of 14 days. In case the aggrieved person is not satisfied with the decision delivered at the local level or the grievance/s is not resolved, the same shall be forwarded to the district level committee, headed by District Collector. No grievance can be kept pending for more than a month which means the committee has to meet every month. Executing Agency through PMU, JTFRP will monitor the implementation of the decision of the committee. In case the aggrieved party is not satisfied with the proposed redressal measures, it can approach the Divisional Level Redressal Committee, headed by Divisional Commissioner, Jammu/Srinagar. If the aggrieved party is not satisfied with the decision delivered or the committee is not successful in resolving the grievance/s, they can approach the court of law at their own expenses. The committees' composition is detailed below:

10.1 Composition of Grievance Redress Committee (GRC) at various levels of the project

- A. **Grievance Redress** Committee **at Local Level:** This committee/cell will work at the local level i.e. site level. This will be comprised of the following members:
 - a. Engineer from PMU
 - b. Assistant Executive Engineer (PIU)
 - c. Site Engineer (PIU)
 - d. Local Revenue officer
 - e. Social Safeguard Officer
 - f. Ward Member/Halqa Panchayat member
 - g. Women representative (Retired Officer/Academicians/Development Professional)
- B. **Grievance Redress Committee at District Level:** In case of grievance/s are not addressed at the local level or PAP/ aggrieved person is not satisfied with the decision delivered at local level, he/she can approach to the grievance redressal committee constituted at the district level. The following will be the composition of the committee.
 - a) District Collector

- b) Director/Head PIU (Convener)
- c) Nodal officer of the Project Component (PMU)
- d) Nodal Officer (Social Safeguards, PMU)
- e) Representative of PRIs
- f) A Prominent Women (Retired Officer/Academicians/Development Professional)
- g) A senior representative of SC/ST Welfare Board
- C. **Division Level Redressal Committee (DLC)**: In case, grievance/s are not addressed at the local and district level, the same will be forwarded to the Divisional Level Redressal Committee through PMU. The committee will provide a major platform to people who might have objections for the decisions taken at the two previous levels. The committee will look into the grievances of the people and will assign responsibilities to implement the decisions of the committee. This Committee (after formation) will be convened by the Chief Executive Officer, ERA/JTFRP, and headed by Divisional Commissioner Jammu/Srinagar. This committee should meet every quarter to solve any grievance/s and will decide within 03 months of receiving the grievance/complaint. Nodal Officer (Social Safeguards) will coordinate the meetings. This committee and the participating departments about land acquisition and resettlement and rehabilitation.

The following will be the composition of the committee:

- a. Divisional Commissioner, (Chair)
- b. Chief Executive Officer, JPFRP/JK ERA (Convener)
- c. Heads of participating departments
- d. Director Technical (PMU/JTFRP)
- e. A senior representative, one each from BC & EBC and SC & ST Welfare
- f. A senior representative of the revenue department
- g. A senior representative of the Disaster Management Department
- h. Social Safeguard Specialist (Nodal officer, PMU)
- i. A prominent women representative (Retired/ Development Professional/Academician)
- j. A PRI representative
- k. A representative of PAPs who can articulate well.



Figure 4: Structure of GRM

10.2 Approach to GRC

Project Affected Person/aggrieved party can approach GRC for the redress of their grievances through **any** of the following modes:

- **1. Web-based:** The grievance corner will be provided at the website of PIU/PMU so that the affected person can register their complaint online.
- **2. Telecom-based:** If needed a toll-free number will be issued by the PMU/ PIU so that affected people can register their complaints through telephone / mobile phone to the PIU/PMU office.
- **3. Through LGC:** The LGC will collect the problems & issues of the community or affected persons and pass on the same to PIU/PMU and try to resolve them. A grievance register will be maintained by the contractor/PIU at each site office. The phone number of the concerned engineer shall be displayed at the site so that the aggrieved person can contact the concerned site engineer in case of an emergency.

4. Through PMU: PAPs/aggrieved party can register/file grievance/s directly to the PMU also. PMU will enroute the same through PIU to the site engineer who will try to resolve it within the stipulated time and the rest process will follow.

Besides the grievance redress mechanism of JTFRP, the state has an online grievance monitoring system known as Awaz-A-Awam (People's voice). The PAPs can also lodge their grievance online at <u>http://www.jkgrievance.nic.in</u>.

10.3 Legal Options to Aggrieved persons/PAPs

In case PAPs are not satisfied with the decision of GRC at the local/district level and Divisional Level committee, they are free to approach the court of law on their own will and expenses at any time to redress their grievance/s. The general public and PAPs specifically will be informed about the Grievance/s redress committee and mechanism through public consultations, disclosures, and distribution of PIBs. All PIBS will be translated into Urdu and will be distributed to the PAPs.

11. Institutional Arrangement

11.1 Institutional Arrangement in the project

A project steering committee has been set up for the overall strategic guidance and monitoring of the project. It is headed by Chief Secretary and comprises of all involved line departments and additionally departments of planning, environment and social welfare. A Project Management Unit (PMU) for the project (JTFRP), housed in Jammu & Kashmir Economic Reconstruction Agency (JK ERA) is responsible for the overall management of the "Jhelum Tawi Flood Recovery Project (JTFRP)". This PMU is headed by Chief Executive Officer (CEO). Social Development Specialist has been positioned in PMU to provide assistance and support to Director Safeguards to address all safeguard-related issues during documentation, execution, and implementation of ARAP (wherever required) and monitoring.

The Chief Executive Officer (JKERA/JTFRP) will be responsible for overall coordination, reporting, technical assistance, monitoring, and budgeting of all the components associated with the project. The CEO will have the administrative and financial powers for the implementation of the project including the implementation of ARAP wherever required. The Chief Executive Officer (CEO) will be supported by Director Technical, Director Safeguards, Director Planning and Coordination, Director Disaster Management, Executive Engineers, AEEs, and Social Development Specialist. The PMU will be responsible for providing overall policy guidance, training, and capacity-building support to PIU (JK ERA) to ensure compliance with World Bank's Safeguard Policies and applicable Union Territories and other acts, notifications, guidelines, etc. Director Safeguards with the assistance of a Social Development Specialist in EA will ensure that all social safeguards issues are complied with as detailed out in Social Management Plan. Social issues will be coordinated by Social Development Specialist (SDS) within the PMU and PIU. PMU will be assisted by Project Management Consultants (Technical Assistance and Quality Audit Consultants) for technical support and advice, monitoring and impact evaluation, etc.

11.2 Implementation Stage

The sub-project does not involve involuntary displacement, land acquisition, and livelihood loss either temporary or permanent. The Project Implementation Unit is headed by the Project Manager (Transport) in JK ERA. Overall civil work shall be carried out under his supervision and guidance. Director Safeguards with the support of the Social Development Specialist in PMU, JK ERA will ensure compliance with the WB policies and other provisions applicable to the project. For this sub-project, Only Social management Plan needs to be implemented during the execution of the sub-project.

12. Annexures

Annexure1: Environment and Social Screening Data Sheets

Part A: General information

1. Name of the sub-project	Construction Strengthening/Up-gradation of Shadipura-Khanpeth-Sumbal Road (6.000 Km)
2. Type of proposed activity (ti	ick the applicable option and provide details)
• Road	\checkmark
• Bridge	
Fire Station	
Hospital/Health Facility	
Educational Institute	
 Building for Livelihoods 	-
Flood Infrastructure Related	_
Other Public Building	
Any Other (Please Specify)	-
3. Location of the proposed sub	o-project
Name of the Region	Kashmir
Name of the District	Bandipora
Name of the Block	Pattan, Sonarwani, Sumbal, Bandipora
Name of the Settlement	Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Khalil, Turgam, Khanpeit
• Latitude	34°10'43.38"N
 Longitude 	74°40'35.16"E
4a. Proposed Nature of Work	(tick the applicable options)
Minor Repairs	-
• Major Repairs/Rehabilitation	n -

 Upgrading/Major Improvement 	
Expansion of the facility	-
New Construction	-
Any Other	-
4b. Size of the sub-project (approx. area in sq. mt/hac or length in mt/km, as relevant)	6 Km
5. Land Requirement (in hac./sq.mt.))
Total Requirement	Nil. (No land required, PIU certified that work will be done in the available RoW)
Private Land	Nil
• Govt. Land	Nil
Forest Land	Nil
6. Implementing Agency Details (sub	o-project level)
 6. Implementing Agency Details (sub- Name of the Department/Agency 	p-project level) PIU-ERA (Kashmir)
6. Implementing Agency Details (sub- Name of the Department/Agency • Name of the contact person	p-project level) PIU-ERA (Kashmir) Mr. Abdul Wahid
 6. Implementing Agency Details (sub- Name of the Department/Agency Name of the contact person Designation 	 project level) PIU-ERA (Kashmir) Mr. Abdul Wahid Project Manager
 6. Implementing Agency Details (sub- Name of the Department/Agency Name of the contact person Designation Contact Number 	project level) PIU-ERA (Kashmir) Mr. Abdul Wahid Project Manager +7006152713
 6. Implementing Agency Details (sub- Name of the Department/Agency Name of the contact person Designation Contact Number E-mail Id 	Project level) PIU-ERA (Kashmir) Mr. Abdul Wahid Project Manager +7006152713 projectmanager049@gmail.com
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Part B (1): Environment Screening

Question	Yes	No	Details
1. Is the sub-project located in whole environmentally sensitive areas?	e or pa	rt with	in 1 km of the following
a. Biosphere Reserve		No	
b. National Park		No	
c. Wildlife/Bird Sanctuary		No	
d. Wildlife/Bird Reserve		No	
e. Important Bird Areas (IBAs)		No	
f. Habitat of migratory birds (outside protected areas)		No	
g. Breeding/Foraging/Migratory route of Wild Animals (outside protected areas)		No	
h. Area with threatened/rare/ endangered fauna (outside protected areas)		No	
i. Area with threatened/rare/ endangered flora (outside protected areas)		No	
j. Reserved/Protected Forest		No	
k. Other categories of Forest		No	
ı. Wetland		No	
m. Natural Lakes		No	
n. Rivers/Streams		No	

Question	Yes	No	Details
o. Swamps/Mudflats		No	
p. Zoological Park		No	
q. Botanical Garden		No	

4. Is the sub-project located in whole or part within 500 mts. of any of the following sensitive features?

a. World Heritage Sites		No	
b. Archaeological monuments/ sites (under ASI's central/statelist)		No	
c. Historic Places/Monuments/ Buildings/Other Assets (not listed under ASI list but considered locally important or carry a sentimental value)		No	
d. Religious Places (regionally or locally important)	Yes		4 Mosques exist along the road corridor at an average distance of 8 meters
e. Reservoirs/Dams		No	
f. Canals		No	
g. Public Water Supply Areas from Rivers/Surface Water Bodies/Ground Water Sources		No	
4. What is the High Flood Levelin the sub-project area?	NA		

5. Is any scheduled/protected tree-like Chinar, Mulberry or Deodar likely to be affected/ cut due to the project?	No	All efforts shall be made to avoid unnecessary cutting of the trees.Necessary approval/Permission will be obtained from the concerned department if tree cutting/felling involved. Few non scheduled trees may need to be cut (pruned) for the proposed sub-project.
6. Is the sub-project located in a landslide/heavy erosion-prone area or affected by such a problem?	No	
7. Is sub-project located in an area that faces water paucityor water quality issues?	No	

Part B (2): Result/Outcome of Environmental Screening Exercise

Part	B (2): Result/Outcome of Environmental Se	creening Exercise
1.	Environment Impact Assessment	No
2.	Environment Clearance Required	No
3.	Forest land Clearance/Diversion	No
4.	Tree Cutting Permission Required	No
5.	ASI (Centre/State) Permission Required	No
6.	Permission from ULB/LocalBody/Department Required	No
7	Any other clearance/permission required	Consent to Establish (CTE) and Consent to Operate (CTO) from J&K SPCB will be required for Hot mix Plants, Wet Mix Plants, Stone Crushers, PUC's and other fitness certificates of equipment, etc.

Part C (1): Social Screening

1. Does the	sub-pr	oject activity require	e acquisition o	of land?
Yes			No	$\sqrt{(\text{PIU certified that up})}$ gradation will be done in the available RoW)
Give the following	Private	e Land (sqmts/hac.)		
details	Govt. L Forest	and (sqmts/hac.) Land (sqmts/hac.)		
2 Does the pr structures?	roposed	l sub-project activity	result in demo	olition/removal of existing
Yes			No	\checkmark
If yes give the	details			
Number of pu	blic stru	ctures/buildings		No
Number of co religious/cult	mmon p ural/dri	roperty resources (suc nking water/wells/etc	ch as c.)	No
Number of pr land)	ivate str	uctures (located on pr	ivate orpublic	Nil.
3 Does the pr	roposed	project activity resu	lt in loss of cro	ops/trees?
Yes		\checkmark	No	
4 Does the j livelihood/e	propose mployn	ed project activity res ient?	ult in loss of d	irect
Yes			No	
5 Does the pr nearby resid	roposed ents/lo	l activity result in los cal population are de	s of communit ependent?	y forest/pastures onwhich
Yes			No	\checkmark
If yes, give the to be lost (in a	he detail acres/hac	s of the extent ofarea		
6 Does the pr	oposed	project activity affect	scheduled trib	e/caste communities?
Yes			No	

Part C (2): Result/Outcome of Social Screening Exercise

S.No	Result/Outcome	Outcome
1	Answer to all the questions is 'No' and only forest land is being acquired	No SIA/RAP required
2	Answer to any question is 'Yes' and the sub-project does not affect more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	No RAP is required

3	Answer to any question is 'Yes' and the sub-	No SIA/RAP required
	project affects more than 200 people (i.e.	
	either complete or partial loss of assets	
	and/or livelihood)	

Outcome of Screening:

As per the screening exercise, the proposed sub-project does not have significant environmental and social issues. The proposed sub-project is only the Improvement & Up-gradation of the existing road and does not involve the land acquisition of private or government land. Wherever the required land width is not available, the construction will be carried out in the available land width. Modification in the design has been completed as a part of the mitigation measures.

However, in order to assess the temporary impacts, existence of squatters and encroachers on the site SIA required for the proposed subproject. SIA study will also assist as tool for preparation of Social Management Plan for the sub-project.

Annexure 2: GIS Map of the Proposed Sub-project Shadipura-Khanpeth-Sumbal Road in District Bandipora



Annexure 3: Encumbrance Free Certificate issued by PIU



Government of Jammu and Kashmir Economic Reconstruction Agency 2nd floor Commercial Complex, Rambagh, Srinaga E-mail:-projectmanager049@gmail.com 0194-2443922



No. ERA/PMT/20 / 1/19

Date: 079/21

Undertaking for encumbrance free existing RoW

Sub-project Road: Construction/Strengthening/Up-gradation of Shadipora-Khanpeth-Sumbal Road (6 Km)

The Chief Engineer R&B Department Kashmir vide his letter No. CE/RBK/HD/7165 dated 14.06.2019 has certified the RoW of the road namely Shadipora-Khanpeth-Sumbal Road " Minimum 5.50 meter".

It is hereby certified that the up-gradation and strengthening of this road for a length of 06 Km under JTFRP is restricted to this existing and available RoW. It is also certified that there are no residential, commercial, religious structures or any CPR in the existing RoW.

Hence, the RoW is encumbrance free.

Project Manager (Transport) / Project Manager (JKPCC Works) J&K ERA/JTFRP

Annexure 4: RoW confirmation by Chief Engineer (PWD) Kashmir



Annexure 5: Newspaper notification for inviting objections

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s for the	e information of public in gener	al and those likely to be ber	nefitted/affected in part	of Jammu & Kashmir under JTFRP Icular that the following road sub-projects have been taken up
omic Re	Construction Agency in Kashmir	-road/right-of-way under the Division of the UT of J&K.	he World Bank funded	Jhelum & Tawl Flood Recovery Project by Jammu and Kash
lo.	Name of the sub-project	District	Length of the road	Major settlements along the road
	from Nowgam to Sumbul Bridge.	Baramullah	12.690 kms	Hamray, Tramba Gund, Rakh Haigam, Wussan, Gundi Jahangir, Sadat Pora, Sumbal, Tanga Pora, Bulagam.
12-1	Shadipura Khanpeth	Baramullah./Bandipora	6.00 kms_,	Shadipora, Rakh Shilyat, Jirgam, Najin, Parihaspora, 🛪 🛪
	Haiin Aias Road Via	Bandipora	7.186 kms	Koshum Bagh, Rakhi Hajan,Sadurkote,Sadhunhara, Gund Prang Alas
	Saidnara Road.			Guild Haily Ajas
	Saidnara Road. Parimpora-Soibugh Road.	Srinagar /Budgam	7.927 kms	Abansa, Sarifábad, Bemina, Hajibagh, Pethmakhama, Gotapora
	Saidhara Road. Parimpora-Soibugh Road. Sangam Khudwani Road.	Srinagar /Budgam	7.927 kms 4.750 kms	Abansa, Sarifabad, Bemina, Hajibagh, Pethmakhama, Gotapora Sangam, Hassain Pora Tavela, Arwani, Wanpoh, Qaimoh
	Saidnara Road. Parimpora-Soibugh Road. Sangam Khudwani Road. Bijbehara waghama Road via katriteng.	Srinagar /Budgam Anantnag Anantnag	7.927 kms 4.750 kms Main: 7.340 kms Link 1.050 kms	Abansa, Sarifabad, Bemina, Hajibagh, Pethmakhama, Gotapora Sangam, Hassain Pora Tavela, Arwani, Wanpoh, Qaimoh Bijbehara, Hayar, Waghama, Hassain Pora Tavela
ions if a	Saidnara Road. Parimpora-Soibugh Road. Sangam Khudwani Road. Bijbehara waghama Road via katriteng. any, as far as Right of Way is con	Srinagar /Budgam Anantnag Anantnag cerned, duly supported by at	7.927 kms 4.750 kms Main: 7.340 kms Link 1.050 kms Ithentic documentary e	Abansa, Sarifabad, Bemina, Hajibagh, Pethmakhama, Gotapora Sangam, Hassain Pora Tavela, Arwani, Wanpoh, Qaimoh Bijbehara, Hayar, Waghama, Hassain Pora Tavela vidence, shall be received in the office of the undersigned eith

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Sut This take Jamr S. No 1 2 3 4	Dject: Up-gradation of Roads is for the Information of publicing n up for up-gradation within the ex mu and Kashmir Economic Reconstru- Name of the sub-project Hamaray Sultanpora from Nowgam to Sumbul Bridge. Shadipura Khanpeth Sumbal road. Hajin Ajas Road Via Saidnara Road. Parimpora-Soibugh Road. Sangam Khudwani Road.	in Kashmir Divisior eneral and those likely isting width-of-road/ri isting width-of-road/ri isting width-of-road/ri isting width-of-road/ri District Baramulla Baramulla Baramulla Bandipora Srinagar /Budgam Anantnag	PUBLIC NO n of UT of Jammu to be benefitted/aff pht-of-way under th ir Division of the UT Length of the road 12.690 kms 6.00 kms 7.186 kms 7.927 kms 4.750 kms Main: 7.340 kms	2 st Floor JKPCC Building, Panama Chowk, Bail Head Complex, Jam 2 st Floor JKPCC Building, Panama Chowk, Bail Head Complex, Jam TICE 4 & Kashmir under JTFRP fected in particular that the following road sub-projects have been e World Bank funded Jhelum & Tawi Flood Recovery Project by of J&K. d Major settlements along the road Hamray, Tramba Gund, Rakh Haigam, Wussan, Gundi Jahangir, Sadat Pora, Sumbal, Tanga Pora, Bulagam. Shadipora, Rakh Shilvat, Tirgam, Najin, Parihaspora, Gund Kheliil, Turgam, Khanpeit Koshum Bagh, Rakhi Hajan, Sadurkote, Sadhunhara, Gund Prang Ajas Abansa, Sarifabad, Bemina, Hajibagh, Pethmakhama, Gotapora Sangam, Hassain Pora Tavela, Arwani, Wanpoh, Qaimoh Biibehara, Hayar, Wanhama, Hassain Pora Tavela
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Annexure 6: Reconfirmation of RoW by PMU



Government of Jammu and Kashmir J&K Economic Reconstruction Agency Jhelum Tawi Flood Recovery Project 2nd floor ERA Complex, Rambagh, Srinagar 2nd Floor JKPCC Building Railhead Complex Jammu



Subject: Encumbrance-free sites for up-gradation of roads under JTFRP (Kashmir Division).

Whereas J&K ERA (K) as PIU for the road sub-projects in Kashmir Division certified the Right of Way for all the 09 roads being encumbrance-free. The revenue records of 03 roads viz., 1. Construction of Rigid pavement of IG Road Rambagh to Civil Secretariat Road in Srinagar. 2. Construction of Rigid pavement of IG Road Peerbagh Bridge to Humhama Chowk and 3. Improvement and Up-gradation of Parimpora-Soibugh Road was available. Accordingly, documents have been shared with the WB for approval.

However the RoW provided by the PIU (K), in absence of relevant land records could not be verified for 06 roads viz.,

 Hamray-Sultanpora from Nowgam to Sumbal Bridge road, 2. Shadipora Khanpeth Sumbal Road, 3. Hajin Ajas Road Via Saidnara Road, 4. Parimpora-Soibug Road (got notified inadvertently instead of Eastern foreshore road), 5. Sangam Khudwani Roiad, 6. Bijbehara Waghama Road via Katriteng

The matter of 06 roads was discussed and deliberated upon in-house and with the team of the World Bank in different meetings for resolution. It was agreed that PMU will notify in the newspapers and invite objections from people who thinks that their assets has affected or likely to be affected due to execution of sub-projects under JTFRP. Accordingly, notification for inviting objections was issued in two daily newspapers on 16/09/2021 in Kashmir Images and the daily Tameel Irshad for 06 roads (mentioned above), detailing the name of the roads its scope, and the villages/habitations likely to be affected/benefitted.

The objections were supposed to be received in the office of Director Safeguards (Kashmir) within 07 days after the publication of this notification. Despite the lapse of more than a month, no objection has been received in the office of Director Safeguards either through email or post.

Therefore, RoW within which the roads are being up-graded/constructed is deemed to be encumbrance-free.

NO- BRA/DSA/PS/94-99 CIT :- 25-10-2021

Copy to:-

- 1. Chief Executive Officer, J&K ERA for kind information
- 2. Director Kashmir, J&K ERA for information
- 3. Project Manager (T), J&K ERA Kashmir for information
- 4. Environmental Expert, J&K ERA for information
- 5. Social Expert, J&K ERA for information
- 6. Team Leader, TAQAC for information

JIRERA/JTERP

Scanned with CamScanner

Annexure 7: Plan & Profile





Social Impact Assessment Report





Social Impact Assessment Report





Annexure 8: Photographs of the Road

Photographs showing Existing Road Condition of Shadipura-Khanpeth-Sumbal proposed subproject



Annexure 9: Public Consultation (15.9.2019)



Public Consultation/ Meeting Photographs on Sub- Project Road

Social Impact Assessment Report

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