

# Environment and Social Screening Report

---

May, 2020

Constructions of 3x30 m Through Type Truss  
Girder Bridge on Asajipora Kamand Sadoora Road  
in Km 4<sup>th</sup> Over Nallah Brangi

(Jhelum Tawi Flood Recovery-World Bank Project)

Prepared by Roads and Buildings Department (R&B) Government of Jammu & Kashmir, for  
the World Bank

## ENVIRONMENT AND SOCIAL SCREENING

### EXECUTIVE SUMMARY

The devastating deluge of September 2014 had enormous negative impact on economic aspects of the Union territory (erstwhile state) and massive infrastructure damages in which capital city Srinagar was most affected. In response, a mission of the World Bank visited the Union territory (erstwhile state) during February 1-6, 2015 in order 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. Public service infrastructure and equipment of hospitals and education centres were also severely damaged and are still not fully operational.

Based on the RDNA results, restoration works underway, and discussions with the GoJ&K, "Jhelum and Tawi Flood Disaster Recovery Project (JTFRP)" will focus on restoring critical infrastructure using international best practice on resilient infrastructure. The 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 40 damaged bridges, designed to be seismic resilient (per the guidelines of the Bureau of Indian Standards) and with regard to topography and hydrology (per the guidelines of the Indian Roads Congress, the Ministry of Road Transport and Highways), and projected demographic changes. One of the sub-project component aims at construction of 3x30.00mtsthrough type truss Girder Bridge Sadoora Kamad Road over Brengi Nallahin district Anantnag.

Subprojects under "Jhelum and Tawi Flood Recovery Project" commonly known as JTFRP 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 that is sensitive area criteria. The objective of Environment and social screening is to identify the potentially significant environmental/ social issues of the sub-project at an early stage for detailed Environmental and Social impacts.

Public consultation was conducted at the subproject location on 10/09/2018 and 18/3/2019 (follow up meeting) with local people as part of environment and social screening study. During consultation process about the proposed sub-project, people have expressed keen interest about the proposed subproject. Local people were make aware about the upcoming work and World Bank funding and guidelines. People in general were very enthusiastic about the benefits of the subproject.

The screening study reveals that there are no adverse social and environment impacts of the proposed sub project as the project does not involve any kind of land acquisition.

## 1. Introduction

### 1.1 Project Background

In September 2014, J&K experienced torrential monsoon rains in the region causing major flooding and landslides. The continuous spell of rains from September 2-6, 2014, caused Jhelum and Chenab 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 Kashmir, including the capital. In many districts, the rainfall exceeded the normal by over 600%. 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. For example, the district of Qazigund recorded over 550 mm of rainfall in 6 days as against a historic normal of 6.2 mm over the same period.

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 (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 (erstwhile state). In response, a mission of the World Bank visited the Union territory (erstwhile state) during February 1-6, 2015 in order 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. Public service infrastructure and equipment of hospitals and education centres were also severely damaged and are still not fully operational.

Based on the RDNA results, restoration works underway, and discussions with the GoJ&K, the project will focus on restoring critical infrastructure using international best practice on resilient infrastructure. Given the Union territory (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 Union territory (erstwhile state) to increase resilience.

The project is comprised of the following seven components:

- (i) Reconstruction and strengthening of critical infrastructure (US\$60 million)
- (ii) Reconstruction of roads and bridges (US\$80 million)
- (iii) Restoration of urban flood management infrastructure (US\$50 million)
- (iv) Strengthening and restoration of livelihoods (US\$15 million)
- (v) Strengthening disaster risk management capacity (US\$25 million)
- (vi) Contingent Emergency Response (US\$0 million)
- (vii) Implementation Support (US\$20 million)

## **1.2 Project Development Objective**

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

## **1.3 Sub-project Background:**

The component 3 of "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 infrastructure will be designed to withstand earthquake and flood forces as per the latest official design guidelines. The affected areas will benefit by the restored access to the markets thereby increasing the economic growth in these areas and timely access to health and education services. Restoration of roads will also serve as supply/rescue lines in the event of disaster.

The component will finance support the reconstruction of about 300km of damaged roads and associated drainage works, retaining walls, breast walls and other structures to increase resilience. It will also finance the restoration and improvement of about 40 damaged bridges, designed to be seismic resilient (per the guidelines of the Bureau of Indian Standards) and with regard to topography and hydrology (per the guidelines of the Indian Roads Congress, the Ministry of Road Transport and Highways), and projected demographic changes.

One of the bridge identified under said component is at Kamand Sadoora over Brangi Nallah in district Anantnag. This report covers the Environment and Social Screening study of the identified bridge.

## **1.4 Project Description**

Village Sadoora is situated 07 Kms from Anantnag Town and across Nallah Brengi having population of 4500 souls. The main occupation of the people is agriculture production. The village was connected with main district with a 6x20 ft span submersible cause way, which was washed away due to devastating flood of September 2014. Now, the inhabitants of the area are facing lot of difficulties in absence of connectivity over said Nallah. To redress the demand of the public it is

proposed to construct a double lane 3x30 mts span steel girder bridge over nallah.

Keeping in view the importance of road connecting with district headquarter, it is proposed to construct the abutments, pier in RCC of designed mix. Approach walls shall be constructed in RCC M-20 grade cement concrete and also 900 mm dia RCC spun pipes shall be provided in approach walls which will serve as vent during floods. RCC slab of design mix shall be provided over steel decking for smooth running of traffic

The bridge is a major/vital connecting link between Sadoora, Kamand , Vessu, Lallan, Ganoora, Ugjan and Asajipora besides connecting district headquarter Anantnag. The proposed bridge is to be constructed on Sadoora, Kamand Road connecting vast area to NH 44. The bridge will also serve indirectly to thousands of other souls of the other adjoining areas as it links these areas with National Highway and district head-quarter.

### **1.5 Objective of Environment and Social Screening Study**

Subprojects under “Jhelum and Tawi Flood Recovery Project” commonly known as JTFRP 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 that is sensitive area criteria. The objective of Environment and social screening is to identify the potentially significant environmental/ social issues of the sub-project at an early stage for detailed Environmental and Social impacts.

### **1.6 Methodology of Environment and Social Screening Study**

The environment and social screening for the subproject has been carried out by making use of the approach and methodology provided in the approved Environment and Social management Framework (ESMF) of JTFRP.

## **2. Environment and Social Issues**

### **2.1 Environmental Issues**

A slight increase in local air pollution due to cutting and filling works and other associated construction activities is anticipated. This impact shall be temporary, site specific and reversible in nature. Therefore, based on the findings during survey, there are no significant environmental as well as social impacts in sub-project area, hence no further special study or detailed environmental impact assessment (EIA)/ Social impact assessment needs to be undertaken (**Annexure A**). No scheduled tree cutting is involved for the construction of proposed sub-project and all possible efforts shall be made to avoid unnecessary cutting of trees..

### **2.2 Social Issues**

#### **2.2.1 Land Acquisition**

The screening envisaged that the proposed sub-project does not involve any type of land acquisition as the proposed bridge is to be constructed on existing bridge site. Revenue Papers (Urdu and English translation) pertaining to the proposed sub-project are annexed as annexure B, revealed that the bridge is being proposed for reconstruction and rehabilitation on the government land. Therefore, no land acquisition is involved.

#### **2.2.2 Issues of Livelihood**

As per the screening study there is no adverse impact either temporary or permanent on anybody's livelihood. Rather the proposed sub-project will generate employment opportunities for both skilled and unskilled persons. Long term impacts of the project in terms of improved access and better connectivity will bring lasting economic benefits, since residents of project area are predominantly fruit growers.

### **2.2.3 Public Consultation**

Public consultation was conducted at the subproject location on 10-09-2018 and thereafter on 18/09/18 with people of the area as part of environment and social screening study (**Annexure C**).

#### **Issues discussed:**

The following information was shared with the people:

- Significance of the proposed sub-project.
- Awareness about the sub-project funding and executing agency.
- Inconveniences faced by people after the damaging of the bridge during 2014 floods.
- Perceived benefits from the proposed sub-project.
- Adverse environmental issues during execution of the subproject.
- World Bank Social & Environmental Safeguards Policies.
- Influx of labour during the construction stage of the project.
- Proposed Grievance Redressal Mechanism.

#### **Feedback received**

People assured full cooperation during execution of the subproject. The joint Action Committee of the area assured every possible help for the proposed sub-project (**annexure D**).

R&B ensured that the requisite mitigation measure shall be taken for addressing concerns of the people during execution stage. A Social and Environmental Management Plan shall be prepared and implemented for same.

### **2.2.4 Environment and Social Management Plan**

Environmental and Social Management Plan (ESMP) is to be developed to provide specific actions deemed necessary to assist in mitigating the environmental impacts, guide the environmentally-sound execution of the sub-project, and ensure efficient lines of communication between the implementing agency, project management unit and contractors. The ESMP will be included in the bid documents and will be further reviewed and updated during implementation. The ESMP will be included in the contractual clauses and will be made binding on all contractors operating on site. Non-compliance with, or any deviation from the conditions set out in this document constitutes a failure in compliance. Any requirements for corrective action will be reported to the World Bank.

**ANNEXURE - A**

**Environment and Social Screening Form**

**Part A: General Information**

<b>1. Name of the sub-project</b>	Construction of 3x 30.00mts Through Type Truss Girder Bridge on Ashajipora Kamad Sadoora Road in Km 4 <sup>th</sup> over Brengi Nallah	
<b>2. Type of proposed activity</b> (tick the applicable option and provide details)		
▪ Road	<input type="checkbox"/>	-
▪ Bridge	<input checked="" type="checkbox"/>	√
▪ Fire Station	<input type="checkbox"/>	-
▪ Hospital/Health Facility	<input type="checkbox"/>	-
▪ Educational Institute	<input type="checkbox"/>	-
▪ Building for Livelihoods	<input type="checkbox"/>	-
▪ Flood Infrastructure Related	<input type="checkbox"/>	-
▪ Other Public Building	<input type="checkbox"/>	-
▪ Any Other (Please Specify)	<input type="checkbox"/>	-
<b>3. Location of the proposed sub-project</b>		
▪ Name of the Region	Kashmir	
▪ Name of the District	Anantnag	
▪ Name of the Block	Kamad	
▪ Name of the Settlement	Sadoora-Kamad	
▪ Latitude	33°6'77.52"	
▪ Longitude	75°14'53.44"	

<b>4a. Proposed Nature of Work</b> (tick the applicable options)	
▪ Minor Repairs	-
▪ Major Repairs/Rehabilitation	-
▪ Upgrading/Major Improvement	-
▪ Expansion of the facility	-
▪ New Construction	√
▪ Any Other	-
<b>4b. Size of the sub-project</b> (approx. area in sq. mt/hac or length in mt/km, as relevant)	3x 30.00mts Through Type Truss Girder Bridge
<b>5. Land Requirement</b> (in hac./sq.mt.)	
▪ Total Requirement	Nil
▪ Private Land	Nil
▪ Govt. Land	Nil
▪ Forest Land	Nil
<b>6. Implementing Agency Details (sub-project level)</b>	
▪ Name of the Department/Agency	Roads & Buildings Department
▪ Name of the contact person	Er. Basharat Jaleel
▪ Designation	Executive Engineer (Xen)
▪ Contact Number	+91-9419590800
▪ E-mail Id	-
<b>7. Screening Exercise Details</b>	
▪ Date on which it was carried out	10/09/2018
▪ Name of the Person	Yadullah Shah/Vikash Sharma
▪ Contact Number	+91 9622672672/9419125803
▪ E-mail Id	<a href="mailto:yaadshah@gmail.com">yaadshah@gmail.com</a> <a href="mailto:jkerasocial@gmail.com">jkerasocial@gmail.com</a>



**Part B (1): Environment Screening**

Question	Yes	No	Details
<b>1. Is the sub-project located in whole or part within 1 km of the following environmentally sensitive areas?</b>			
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 category of Forest		No	
l. Wetland		No	
m. Natural Lakes		No	
n. Rivers/Streams	Yes		Bridge is proposed to be constructed over Brengi Nallah
Question	Yes	No	Details

o. Swamps/Mudflats		No	
p. Zoological Park		No	
q. Botanical Garden		No	
<b>4. Is the sub-project located in whole or part within 500m of any of the following sensitive features?</b>			
a. World Heritage Sites		No	
b. Archaeological monuments/sites (under ASI's central/U.T list)		No	
c. Historic Places/Monuments/Buildings/Other Assets (not listed under ASI list but considered locally important or carry a sentimental value)		No	
e. Religious Places (regionally or locally important)		No	
f. Reservoirs/Dams		No	
g. Canals		No	
h. Public Water Supply Areas from Rivers/Surface Water Bodies/Ground Water Sources		No	
4. What is the High Flood Level in the sub-project area?	-		
5. Is any scheduled/protected tree like Chinar, Mulberry or Deodar likely to be affected/cut due to the project?		No	

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 paucity or water quality issues?		No	

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

1.	Environment Impact Assessment Required	No
2.	Environment Clearance Required	No
3.	Forest land Clearance/Diversion Required	No
4.	Tree Cutting Permission Required	No
5.	ASI (Centre/U.T) Permission Required	No
6.	Permission from ULB/Local Body/Department Required	Yes, permission from Irrigation & flood control department is required.-
7	Any other clearance/permission required	Only Statutory clearances and NOC's / PUC's for establishment or operation of stone crushers, Hot Mix plants, generators, vehicles etc shall be required to be obtained by the Contractor during execution stage.

**Part C (1): Social Screening**

<b>1. Does the sub-project activity require acquisition of land?</b>			
Yes		No	√
Give the following details:	Private Land (sqmts/hac.)		Nil
	Govt. Land (sqmts/hac.)		Nil
	Forest Land (sqmts/hac.)		Nil

<b>2. Does the proposed sub-project activity result in demolition/removal of existing structures?</b>			
Yes		No	✓
If so, give the following details:			
Number of public structures/buildings	Nil		
Number of common property resources (such as religious/cultural/drinking water/wells/etc.)	Nil		
Number of private structures (located on private or public land)	Nil		
<b>3. Does the proposed project activity result in loss of crops/trees?</b>			
Yes		No	✓
<b>4. Does the proposed project activity result in loss of direct livelihood/employment?</b>			
Yes		No	✓
<b>5. Does the proposed activity result in loss of community forest/pastures on which nearby residents/local population are dependent?</b>			
Yes		No	✓
If yes, give the details of the extent of area to be lost (in acres/hac)			
<b>6. Does the proposed project activity affect scheduled tribe/caste communities?</b>			
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-project affects more than 200 people (i.e. either complete or partial loss of assets and/or livelihood)	No SIA/RAP required

### **Overall Screening Outcome:**

The screening exercise envisaged that the proposed sub-project does not have any significant environmental and social issues as there is no land acquisition and significant environment impact. Therefore, no further special study or detailed / social impact assessment needs to be undertaken.

There may be some short term inconvenience to the local citizens due to construction but that will be addressed as per the ESMP that will implemented during execution stage.

**No EIA and SIA required for the proposed subproject.**

### **Statutory Clearances/ No Objection Certificate:**

This is only the Construction of bridge at existing bridge site. Only Statutory clearances and NOC's / PUC's for establishment or operation of stone crushers, hot mix plants, generators, vehicles etc shall be required to be obtained by the Contractor during execution stage.



**English Translation of the Revenue Papers**

**Extract of Khasra Girdawari for Village Sadoora Teh & Distt Anantnag.**

Survey No	Name of Owner with particulars	Name of tenant with particulars	Area		Kind of land	Rabi 2018	
			K	M		Crop	Mutations, Tenancy & Taxation
1146/152	State Land	State Land	48	--	Banjir-Qadeem/Mulberry	Banjir Qadeem	
			239	02	Gair-Mumkin River	Gair-Mumkin	
			287	02			

Note: The Extract of Girdawari has been translated from Urdu extract issued by Patwari Halq Concerned dt: 11-09-2018.

The document is attested to the extent of translation (Urdu into English) of the enclosed revenue Extracts Issued by concerned Revenue Officials.

  
Collector ERA.

**Annexure C**

**Public Consultation Record**

**Dated: 10.09.2018**

List of Participants of Public Consultation

Name of the Sub-Project: Construction of 3x30 tunnel under bridge  
 Date: 10-09-2018 Location: Nalah, Brangi Sadoga Anantnag

S. No	Name	Residence	Occupation	Contact No.	Signature
10	Ush. Moinudin	Sadoga		9797 803081	[Signature]
20	Jull. Mohand Ha	Sadoga		9596579318 0491004141	[Signature]
30	Mangoor Ahmad Beg	Sadoga			[Signature]
4	Fayaz Ahmad Beg	Sadoga			[Signature]
5	Mohd Aqub Bhat				[Signature]
6	Zaboor Ahmad Mir				[Signature]
7	Shazad Ahmad Wami				[Signature]
8	Ab Hamid Wami				[Signature]
9	Mohd Yasser Mir			7051861004	[Signature]
10	Gh Hassan Wami				[Signature]
11	Ab Salam Mir				[Signature]
12	Gh Nabi Mester				[Signature]
13	Haji Gh Nabi Wami			7051151378	[Signature]
14	Mohd Aqub Wami			9797131021	[Signature]
15	Bashir Ahmad Beg			9797969504	[Signature]
16	Ghbar Ahmad Mir			9906966287	[Signature]
17	Indyaz Ahmad Mir			9622420414	[Signature]
18	Gh Hassan Malik				[Signature]

Signature of Official: [Signature] 10/9



**Signature Sheet of Public Consultation held on 18.03.2019**

**Public Consultation for JTFRP  
Jammu & Kashmir**

Subproject Name: SADRA Bridge Location: Sadras Date: 18/03/19

**Information of Participants**

Sl. No.	Name	Gender	Category (SC/ST/OBC/Gen/BPL)	Address	Occupation	Mobile number	Signature
1	Rashid Ahmad Mir	M	Gen	Sadras	Business	9006049268	<i>[Signature]</i>
2	Mamnoon Ah. Beig	M	Gen	Sadras	Business	8491004141	<i>[Signature]</i>
3	Mushtaq Ah. Shai	M	Gen	Sadras	Labourer	6005543689	<i>[Signature]</i>
4	M. Ishaq Beig	M	Gen	Sadras	Business	9906476534	<i>[Signature]</i>
5	Ghulam Mohd Rabbani	M	Gen	Sadras	Rtd. Employee	8082077253	<i>[Signature]</i>
6	Gh. Mohiuddin Mir	M	Gen	Sadras	Rtd. Employee	9797803082	<i>[Signature]</i>
7	Jawid Ahmad Mir	M	Gen	Sadras	Student	7000423375	<i>[Signature]</i>
8	Sarwan Singh	M	Gen	TABAE	BOS, TABAE	9990482700	<i>[Signature]</i>
9	Gh. Nabi	M	Gen	Buzan	Post-Service	9419031020	<i>[Signature]</i>
10	Sajad Ali	M	Gen	R&B kms	"	946924366	<i>[Signature]</i>

## Public Consultation Photographs



Public Consultation



On site Public Consultation

GIS

