April 2019

# DESIGN AND CONSTRUCTION **(COMPLETE JOB)** OF 135 M SPAN DOUBLE LANE PRE STRESSED CONCRETE MOTORABLE BRIDGE OVER BETAR NALLAH AT DALHAN, DISTRICT POONCH.

(Jhelum Tawi Flood Recovery-World Bank Project)

Prepared by PWD, (R&B), Division, Government of Jammu & Kashmir, for the World Bank

#### ENVIRONMENTAL AND SOCIAL SCREENING REPORT

#### EXECUTIVE SUMMARY

- 1. The devastating deluge of September 2014 had enormous negative impact on economic aspects of the state and massive infrastructure damages in which not only the major town but far flung area were also affected. In response to this tragedy, a mission of the World Bank visited the 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 centers were also severely damaged and are still not fully operational.
- 2. 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 3 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-projects proposed under this component is Design and Construction (complete job) of 135m span double lane pre-stressed concrete motor able bridge over Betar Nallah at Dalhan, District Poonch.
- 3. Subprojects 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 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 project location on 30-11-2018 and thereafter on 09-03-2019 with elected Sarpach, Panchyat members and local people as part of environment and social screening study. Elected Sarpanch and other members have given in written during public consultation that they will fully support and cooperate in execution of the subproject. People have expressed keen interest in the proposed subproject during the Public consultation. People in general were very enthusiastic about the benefits of the subproject.
- 4. The screening study reveals that there are no likely significant Environmental impacts but the screening exercise reveals that subproject involves private land and community land acquisition and therefore ARAP need to be prepared.

## ENVIRONMENT AND SOCIAL SCREENING

## Project Background

- 1. In September 2014, the State of Jammu & Kashmir experienced torrential monsoon rains 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. Water levels increased in the rivers of Chenab and Tawi, both of which were flowing above normal levels. Many districts of the Jammu Division received rainfall in the excess of the normal. The Jammu district received 467.3mm of rainfall in Sept 2014, which exceeds normal by 339%. Similarly Udhampur District received 582.1mm of rainfall which is 165% in 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.
- 2. A Joint team led by the Department of Economic Affairs (DEA), Gol, with representation from the World Bank visited J&K on October 21, 2014. Subsequently, Gol 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 State. In response, a mission of the World Bank visited the 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 centers were also severely damaged and are still not fully operational.
- 3. 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 practices on resilient infrastructure. Given the 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 state to increase resilience.
- 4. The project is comprised of the following seven components:
  - i. Reconstruction and strengthening of critical infrastructure (US\$60million)
  - 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)

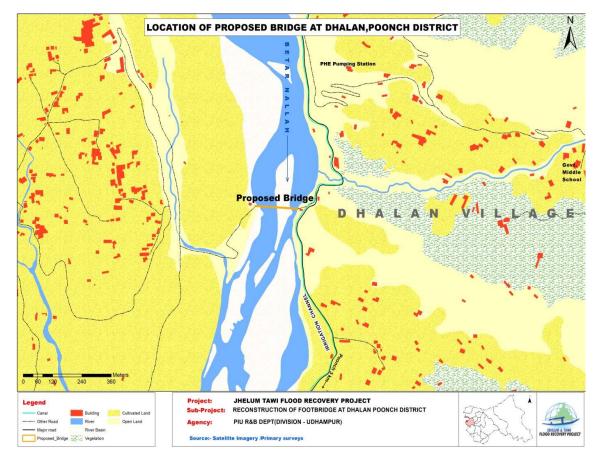
#### Project Development Objective.

**5.** The project development objective is to support the recovery and increase disaster resilience in project areas, and increase the capacity of the Project Implementing

Entity to respond promptly and effectively to an eligible crisis or emergency. The primary beneficiaries would be the communities in the districts that were affected by loss of public service infrastructure that will be restored and improved under the project. By strengthening disaster risk management systems and institutions, the project will benefit the entire affected region.

#### Sub-project Background

- 6. 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.
- 7. Originally, there was 135 M span foot suspension bridge over Betar Nallah at Dalhan, which was washed away due to heavy flash floods of September 2014. After wards there was persistent demand from the public of the area for construction of the said bridge to provide connectivity to the people of the area and the proposal for construction of new suspension bridge was submitted to higher authorities.



**Objective of Environment and Social Screening Study** 

8. Subprojects under "Jhelum and Tawi Flood Recovery Project" commonly known as JTFRP have a prior requirement of screening which is based on three categories; vizpage4

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.

## Methodology of Environment and Social Screening Study

9. 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

#### **Environmental Issues**

- 10. 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. There is no protected area or forest land within or adjacent to the subproject corridor. No tree cutting is required for the execution of the work. Therefore, based on the findings during survey, there are no significant environmental issues; hence no further special study or detailed environmental impact assessment (EIA) needs to be undertaken.
- 11. Environmental and social Management Plans (ESMP) is to be developed to provide specific actions deemed necessary to assist in mitigating the environmental and social issues if any arises during construction activities and to 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 the 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.

#### Social Issues

- 12. During floods of 2014, the existing 135 m foot bridge was washed away resulting into the snapping of the direct link of the villages of Noor kot, Degwar Maldaylian, Dalhan and others with the Poonch city. The residents of these villages have to take a long detour to reach the town. There contact with the villages on the other side of the stream -Malti, Degwar Terwan, Dhara Bagyal, Kalsan, Ajote was also disconnected. The destruction of the bridge during 2014 floods had resulted into disruption of social fabric.
- 13. There is demand from the villagers living on both side of the Betar Nallah to provide connectivity by the construction of the motorable bridge rather than replacing the now destroyed Foot Bridge. The bridge when constructed will serve as a vital link between many villages namely Malti, Dalhan, Degwar Terwan, Dhara Bagyal, Kalsan, Degwar Maldaylian, Ajote having a population of more than 20000 souls sharing the facilities like schools.

#### Land Acquisition

14. The screening exercise carried out for preparing E&SSR reveals that proposed subproject involves acquisition of different categories of land. It involves acquisition of private land, state land and community land (locally known by different names like Shamilat Deh, Malik Sarkar). A total of 6920.892 sq. mts of land will be acquired for the approach road. Out of the total land required for approach road 1895.222 sq. mtrs

is the Shamilat Deh<sup>1</sup>; 2796.38 sq. mtrs is government land and 2229.29 sq. mts is private land. The land under acquisition is banjar (infertile) and not residential or commercial. Relevant revenue documents annexed as **annexure II**.

#### Livelihood issues and Involuntary Displacement

15. No impact either temporary or permanent envisaged on the livelihood of anyone as the proposed subproject does not fall into any commercial area.

#### **Public Consultation**

16. Public consultation was conducted at the project location on 30-11-2018 thereafter on 09-03-2019 (signature sheets annexed as annexure III) with elected Sarpach, Panchyat members and local people as part of environment and social screening study. Elected Sarpanch and other members have given in written during public consultation that they will fully support and cooperate in execution of the subproject. Photographs of public Consultation attached as annexure IV. Public Consultation shall be a continuous process through the sub-project cycle.

#### Issues discussed

- 17. The following issues were discussed with elected Panchyat members and the people.
  - 1. About the project, its technical specifications, World Bank funding.
  - 2. Requirement of land for construction of approach road for the proposed bridge.
  - 3. State Land Acquisition Act, Entitlement Matrix contained in ESMF.
  - 4. Environment issues during construction of the sub-project and mitigation measures
  - 5. Proposed Grievance Redressal Mechanism

#### Feedback received

18. During consultation process about the proposed sub-project, people have expressed keen interest about the proposed sub-project. People in general were very enthusiastic about the benefits of the sub-project in terms of reduction in travel time and fuel cost, as in absence of any bridge they have to take long detour for their works and fulfillment of daily needs. The participants expressed their willingness to extend all types of support during execution of the sub-project as their major difficulties shall be overcome after completion of the sub-project. They also acknowledged the economic benefits that proposed sub-project will bring in the area as a result of generation of employment opportunities for the local population.

<sup>&</sup>lt;sup>1</sup> This is common/joint land/property of the villagers adjacent to the village. It is divided into two types of land i.e. Shamilat Deh dafa (section) 4 and Shamilat Deh dafa (section) 5. Both type of land belongs to the villagers. **Page6** 

#### Annexure I

# **Environment and Social Screening Form**

## Part A: General Information

1. Name of the sub-project	Design and Construction (complete job) of 135m span double lane pre-stressed concrete motor able bridge over Betar Nallah at Dalhan, District Poonch.			
2. Type of proposed activity (tick the applicable option and provide details)				
Road	$\sqrt{2}$			
Bridge	$\checkmark$			
Fire Station	-			
Hospital/Health Facility	-			
<ul> <li>Educational Institute</li> </ul>	-			
Building for Livelihoods	-			
<ul> <li>Flood Infrastructure Related</li> </ul>	-			
Other Public Building				
<ul> <li>Any Other (Please Specify)</li> </ul>	-			
3. Location of the proposed sub-proj	ect			
Name of the Region	Jammu (J&K State)			
<ul> <li>Name of the District</li> </ul>	Poonch			
Name of the Block	Poonch			
<ul> <li>Name of the Settlement</li> </ul>	Dalhan, Poonch			
Latitude	33° 47' 51''N			
<ul> <li>Longitude</li> </ul>	74° 5' 4''E.			

<sup>2</sup> Approach Road to proposed bridge.

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4a. Proposed Nature of Work (tick the applicable options)				
Minor Repairs	-			
Major Repairs/Rehabilitation	-			
<ul> <li>Upgrading/Major Improvement</li> </ul>	-			
<ul> <li>Expansion of the facility</li> </ul>	-			
<ul> <li>New Construction</li> </ul>	$\checkmark$			
<ul> <li>Any Other</li> </ul>	-			
<b>4b. Size of the sub-project</b> (approx. area in sq. mt/hac or length in mt/km, as relevant)	135 m span double lane pre stressed concrete motorable bridge over Betar nallah at Dalhan district Poonch			
5. Land Requirement (in hac./sq.mt.)				
Total Requirement	6920.892 sq. mt			
Private Land	2229.29 sq. mt.			
Community	1895.222 sq.mts			
Govt. Land	2796.38 sq. mt			
Forest Land	Nil			
6. Implementing Agency Details (sub-project level)				
<ul> <li>Name of the Department/Agency</li> </ul>	PWD(R&B) Division Poonch			
<ul> <li>Name of the contact person</li> </ul>	Er. S.S. Aandhi			
Designation	Executive Engineer.			
Contact Number	+91-8492018866			
E-mail Id	pwdpoonch@gmail.com			
7. Screening Exercise Details				
<ul> <li>Date on which it was carried out</li> </ul>	30.11.2018 & 09-03-2019			
<ul> <li>Name of the Person</li> </ul>	Vikash Sharma/ Charanjeet Singh/Sangram Singh			
<ul> <li>Contact Number</li> </ul>	+919419125803, +91 9419893392			

• E-mail Id	jkerasocial@gmail.com
	j <u>charan.sim@gmail.com</u>

	Question	Yes	No	Details		
1.	1. Is the sub-project located in whole or part within 1 km of the following environmentally sensitive areas?					
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			
I.	Wetland		No			
m.	Natural Lakes		No			
n.	Rivers/Streams	Yes		Bridge is proposed to be constructed over Betar Nallah at Dalhan		

Question	Yes	No	Details
o. Swamps/Mudflats		No	
p. Zoological Park		No	
q. Botanical Garden		No	
4. Is the sub-project located in w following sensitive features?	hole o	r part v	vithin 500m of any of the
a. World Heritage Sites		No	
b. Archaeological monuments/ sites (under ASI's central/state list)		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)		No	
e. Reservoirs/Dams		No	
f. Canals	Yes		Minor irrigation channel is flowing adjacent to the sub-project corridor
g. 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?	6.0 mtr above the nallah bed		ve the nallah bed
5. Is any scheduled/protected tree like Chinar, Mulberry or Deodar likely to be affected/ cut due to the project?		No	Page11

l a	s the sub-project located in a andslide/heavy erosion prone area or affected by such a problem?		No		
	s sub-project located in an area that faces water paucity or water quality issues?		No		
Part	B (2) : Result/Outcome of Enviro	onmen	tal Scre	ening Exercise	
1.	Environment Impact Assessme	nt		No	
2.	2. Environment Clearance Required			No	
3.	3. Forest land Clearance/Diversion			No	
4.	4. Tree Cutting Permission Required			No	
5.				No	
6.	6. Permission from ULB/Local Body/Department Required			<u>No</u>	
7	7 Any other clearance/permission required		Only Statutory clearances and NOC's / PUC's for establishment or operation of stone crushers, generators, vehicles etc shall be required to be obtained by the Contractor during execution stage.		

# Part C (1): Social Screening

Yes	✓	No	
Private Land (sqmts/hac.)		:.)	2229.29 sq. mt.
	Community Land (sqmts/hac.)		1895.222 sq.mts
Give the following details:	Govt. Land (sqmts/hac.)		2796.38 sq. mt
	Forest Land (sqmts/hac.)		NIL

2. Does the proposed sub-project activity result in demolition/removal of existing structures?					
Yes		No	✓		
If so, give the followi	ng details:				
Number of public stru	uctures/buildings	-			
Number of common (such as religious/cu water/wells/etc.)		-			
Number of private st private or public lanc		-			
3. Does the propo	sed project activity	result in loss of crop	s/trees?		
Yes		No	$\checkmark$		
4. Does the proposed project activity result in loss of direct livelihood / employment?					
Yes		No	✓		
	5. Does the proposed activity result in loss of community forest/pastures on which nearby residents/local population are dependent?				
Yes		No	✓		
If yes, give the details of the extent of area to be lost (in acres/hac)					
6. Does the pr tribe <sup>3</sup> /caste con		activity affect sch	eduled		
Yes	V	No			

<sup>&</sup>lt;sup>3</sup> Scheduled Tribe Population is living in the mainstream society.

S. No.	Result/Outcome	Outcome
1.	Answer to all the questions is 'No' and only forest land is being acquired	
2.		Abbreviated 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

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

#### **Overall Screening Outcome:**

19. The proposed sub-project will not have any significant environmental issues. However, it involves acquisition of private, community as well as government land for construction of approach road to the proposed bridge but will not involve diversion of forest land, destruction of ecological resources, displacement of people, demolition/removal of existing structures and major Environmental threat/risk.

No EIA and SIA required for the subproject. Only ARAP and ESMP are required.

#### Statutory Clearances/ No Objection Certificate:

20. This is only the construction of bridges on nallahs which is long pending demand of local people.OnlyStatutoryclearancesandNOC's/PUC'sforestablishmentoroperationof stone crushers, generators, vehicles etc shall be required to be obtained by the Contractor during execution stage.

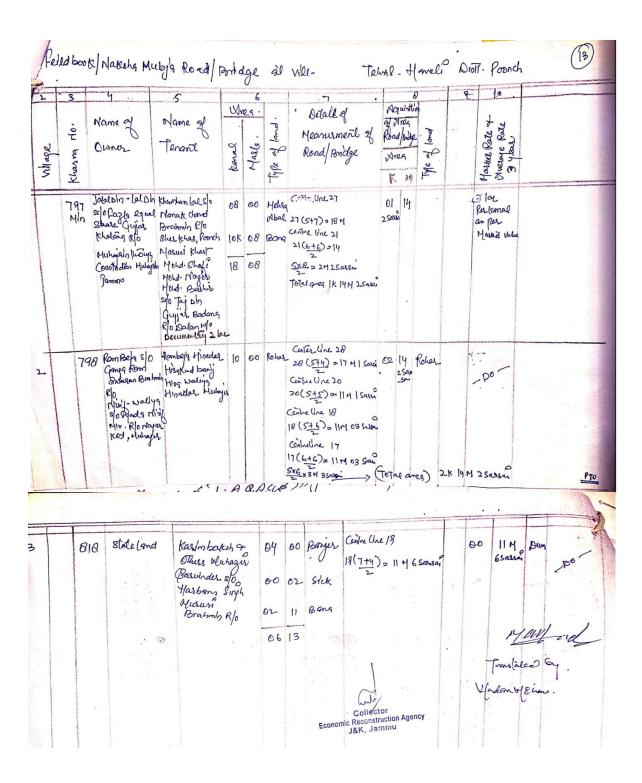
## <u>Annexure II</u>

## **Revenue Documents**

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## Annexure III

# Signature sheets

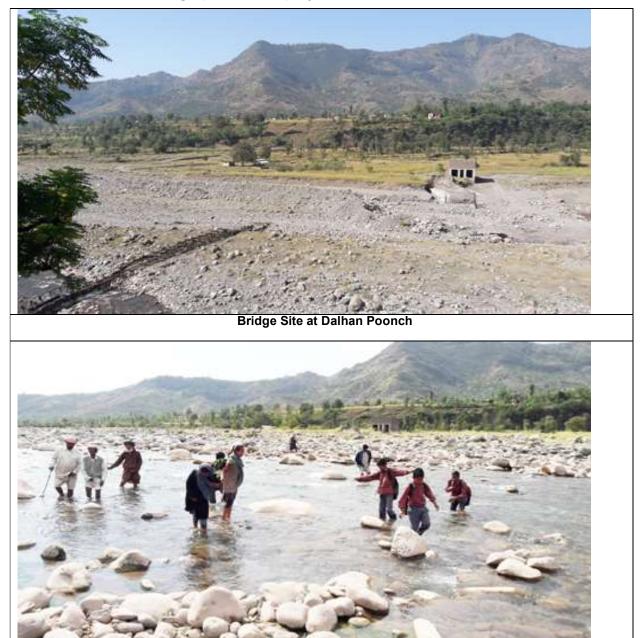
# Issues Discussed

Subproject name: Const. of 135 miles span bouble Lane PSC Motorrable Bridge at Dalhon District Poonch Location Dalhan Date 30-11- 2018 Time 1.00 Pm

SI no.	Issues Raised/Discussed	Response of PIU	Remarks
1	The general Public raised the issue for early completion of Binage.	The Deptt. is ready to complete the bridge within stipulated period.	
2	the half is writed	The PIU will provide safety at measures like barri cading of site during execution and PIU will also award the general mosses about the Const. work and solicit them Co-operation	during Construction
3	un anticipated intact.	If any a un anticipated intact occurs the PiU will advess the same as por the policy of und Bank.	
4	hand donations if hand coming under the alignment of Approach secure.	the PIU will fulfil the	

				Public Cor jam	mu & Kas						
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					tion of Par	rticipants					
SI. No.		Name	Gender	Category (SC/ST/OBC Gen/BPL)		ldress	Occupa		Mobile numb		ature
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Annexure IV Page 20



# Photographs of Sub-project site/ Public consultation

Existing dangerous practice to cross on foot



Public Consultation at Bridge site 30.11.18



Existing dangerous practice to cross on foot

