

Environmental and Social Screening Report

Spetember: 2019

Project ID: P154990

**CONSTRUCTION OF MISSING LINKS STORM WATER
DRAINAGE OF ZONE-1 IN SRINAGAR CITY- JAMMU &
KASHMIR**

Jhelum Tawi Flood Recovery- World Bank Supported Project

Prepared by PIU (JK ERA): Government of J&K for World Bank

EXECUTIVE SUMMARY

Catastrophic deluge of September 2014 shows negative impact on economic aspects of the State and massive infrastructure damages in which capital city Srinagar was most affected and a trail of siltation in most of the water bodies as environmental degradation which is always synonymous with major floods. In connection to catastrophic flood, a mission of the World Bank visited the State during February 1-6, 2015 on request of Government of India to review and assess the damages 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.

Under the component 3, one of the sub-project identified is construction of Storm Water Drainage in areas lacking drainage network in Zone 1 areas in Srinagar City. These areas frequently get affected with incessant rains/ precipitation which results into inundation and submergence. There are 29 areas identified in Zone 1 on left bank of river Jhelum which lacks drainage system and are proposed to be included under component 3. The project objective is to connect uncovers area as missing links to a suitable point of the existing pipe drain/ CC drain leading to respective dewatering pumping stations of the areas on project components.

Sub-projects 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.

The proposed subproject has a total length of 38.269 km (38269 m) of SWD drainage network within the existing RoW and the total area covered by the missing links is 220.03 hectares. The drainage pipes to be laid in center line of the existing main road, link roads and lanes and enough RoW is available to accommodate the SWD pipes. The “Construction of Storm Water Drainage Scheme (Missing Links) of Zone 1” in Srinagar city does not involve any acquisition of land or structures since the works involve construction of storm water drainage system in uncovered areas lacking drainage and proposal is to connect with the respective dewatering pumping stations.

The screening study reveals that there are no likely significant social impacts of the proposed sub project as it does not involve acquisition of land except temporary disruptions to commuters which shall be dealt by implementing ESMP and mitigation measures mentioned in DPR. The outcome of this screening study (refer to appendix-1 “Environmental and Social Screening sheets) discloses that the proposed sub-project require only “Environmental Assessment” as per WB guidelines.

1. 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 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.

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 practice 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.

1.2 Project Development Objective

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

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

1.3 Subproject Background

The objective of this component “Restoration of urban flood management infrastructure” of the Jhelum and Tawi Flood Recovery Project is to strengthen and reinforce existing weak and vulnerable flood control infrastructure. Investments will primarily include rehabilitation/renovation of around 56 storm water pumping stations in Srinagar city, and replacement of the power equipment, switch/ panel boards at elevated places, and related investments for improvement and increased resilience.

Under this component one of the subproject identified is the “*Construction of Missing Links Storm Water Drainage Scheme of Zone 1 in Srinagar*”. The subproject area is located on the left bank of the river Jhelum in Srinagar city. The proposed scheme of storm water drainage is mainly located along the National Highway which starts from the Nowgam Railway Colony and terminates at Bemina-Qamarabad to HMT Shalteng areas.

These areas lacks important drainage system resulting into frequent waterlogging/ submergence of areas.

1.4 Sub-project Description

The Srinagar city lies $34^{\circ} 0' - 34^{\circ}14'N$ (Latitude) and $74^{\circ} 43' - 74^{\circ} 52'E$ (Longitude) with an altitude of 1585 m (5200 ft) above mean sea level (msl). The city has a unique physiographic setup with steep hills in the East and North East, low lying paddy fields falling in the flood plain of Jhelum in the South and West, the Karewas of Budgam in the extreme South and towards the North we encounter the uplands with moderate slopes. The famous *Dal* lake is situated in the heart of the city. The city of Srinagar experiences a temperate type of climate. The city receives most of the precipitation in winter season in the form of snow and rain with an annual average rainfall of $>710\text{mm}$.

The proposed subproject “*Construction of Missing Links Storm Water Drainage Scheme*” is located in Zone 1 of Srinagar City” having a geo-coordinates of $34^{\circ}01'49.86''N$ (Lat) $74^{\circ}49'35.09''E$ (Long) at Nowgam and (Lat) $34^{\circ}06'50.80''N$ (Long) $74^{\circ}43'27.25''E$. It is about 1.8 km from the Srinagar Railway Station and 7.9 km from Srinagar International Airport. Photographs showing the proposed Storm Water Drainage sites (Missing Links) of Zone 1 in Srinagar City (Appendix 2).

The area lacks important drainage system resulting into frequent waterlogging/ submergence of these areas.

1.5 Scope of work

Based on the requirement, it is found that there are areas/lanes, where there is non-availability of drainage facility, therefore, such areas are proposed to be provided as missing links for storm water drains that shall be connected to nearby existing drainage systems.

Table: Area wise length of missing links under concerned pumping station

Sr. No.	Name of Missing link	Length of CC drain M	Length of NP3 pipe 'M'	Total Length of pipe & cc drain in 'M'	Name of Pumping Station	Area Covered by Missing link (Hect.)
1	Bagh e Islam Chanapora	68	402	470	Chanapora Pumping Station (near Chanapora bridge)	1.80
2	Gulshan Nagar Chanapora 1	278	232	510	Pumping station on Nowgam-Chanapora Road	2.30
3	Gulshan Nagar Baage mehtab 2	1164	1605	2769	Pumping station on Nowgam-Chanapora Road	14.52
4	Gousia Colony, Bagh e Mehtab	65	244	309	Pumping station on Nowgam-Chanapora Road	0.97
5	Wanabal Shankerpora Nowgam	233	1098	1331	Pumping station on Nowgam-Chanapora Road	5.48
6	Railway Colony Nowgam	428	1156	1584	Pumping Station IPS Channapora	9.20
7	Masjid Colony Chanapora	--	281	281	Pumping station on Nowgam-Chanapora Road	0.65
8	Lal Nagar Chanapora	506	255	761	Channapora DWS	1.81
9	Canal Avenue Rawalpora	763	1449	2212	Alamdard Colony Pumping Station,	10.11
10	Rawalpora Bund	--	742	742	Madina Enclave DWS	2.11
11	Hakeem Bagh, Rawalpora	121	106	227	Pumping Station Afindi Bagh	1.01

12	Rawalpora, parbagh, Eidgah	--	337	337	Alamdard Colony Pumping Station, Rawalpora	1.18
13	Peerbagh bridge to Alamdar Colony	--	3068	3068	Alamdard Colony Pumping Station, Rawalpora	12.31
14	Umarabad Sector C, Peerbagh	--	48	48	Peerbagh pumping station	0.18
15	Green Avenue Enclave, (Incl Naalah)	--	147	147	Cooperative Colony	0.79
16	Jawahar Colony, Hyderpora	--	295	295	Tengpora Pumping Station	2.74
17	Sanat Nagar chowk to Chanapora bridge along service Road	--	1276	1276	Afindi Bagh	13.20
18	Gulberg Colony Sector 1& 2	301	184	485	Tengpora Pumping Station	1.07
19	Shah Anwar colony Hamadan Avenue	--	41	41	Tengpora pumping station (Gungbugh)	0.13
20	Shah Anwar Colony Lane I	--	106	106	Tengpora pumping station (Gungbugh)	0.38
21	Shah Anwar Colony LaneD,D1 & F	--	296	296	Tengpora pumping station (Gungbugh)	1.48
22	Ibrahim Colony, Parray pora	--	1021	1021	Tengpora Pumping Station	5.19
23	Bemina Chowk to Qamarabad Chowk Inc Hamza Colony	--	5903	5903	Sidique Colony Pumping station (Near state motor garages)	66.83

24	Iqbalabad, Toto Ground	--	1633	1633	Toto ground pumping station	7.61
25	Qamarabad Colony Bemina	461	350	811	Sidique Colony Pumping station (Near state motor garages)	3.42
26	Sidique Colony, Bemina	--	628	628	Sidique Colony Pumping station (Near state motor garages)	3.04
27	Fruit Mandi Left out area	--	184	184	Sidique Colony Pumping station (Near state motor garages)	0.68
28	Areas on Srinagar- Baramula road from HMT crossing to Noora Hospital (Shalteng)	--	6723	6723	New Shalteng Pumping Station	46.85
29	Rawathpora	518	124	642	Barzulla Pumping Station	2.99
	Total	4834	33435	38269		220.03

Fig 1: Index Map of the Proposed Storm Water Drainage Scheme (Missing Links) of HMT to Shalteng areas in Zone 1

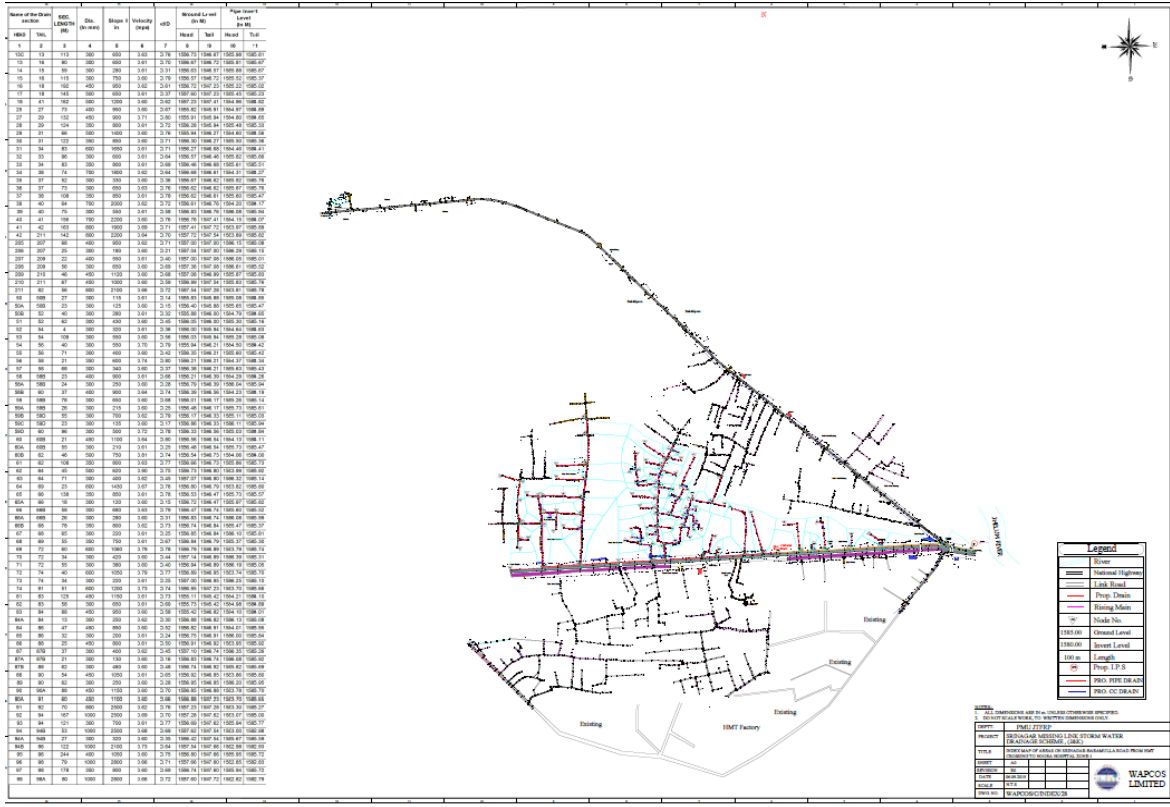


Fig-2: Index Map of the Proposed Storm Water Drainage Scheme (Missing Links) of Bemina-Qamarabad areas in Zone 1

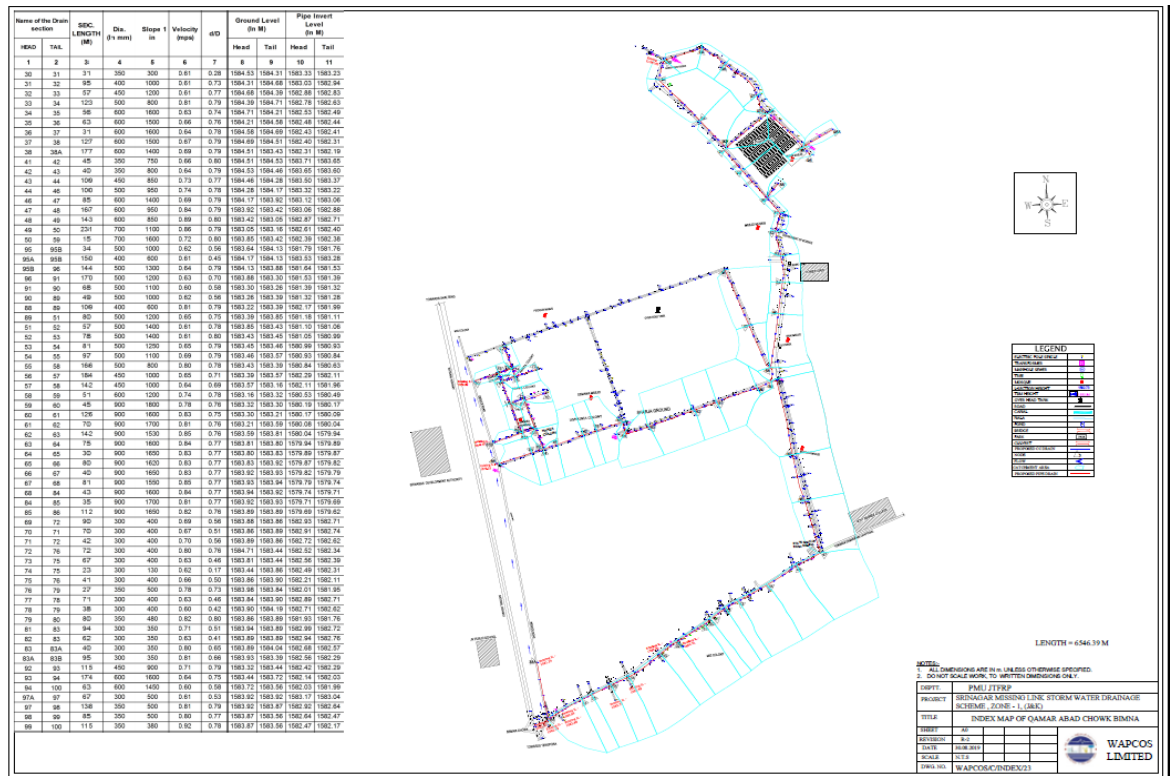


Fig 3: Index map of SWD Nowgam- Shankerpura

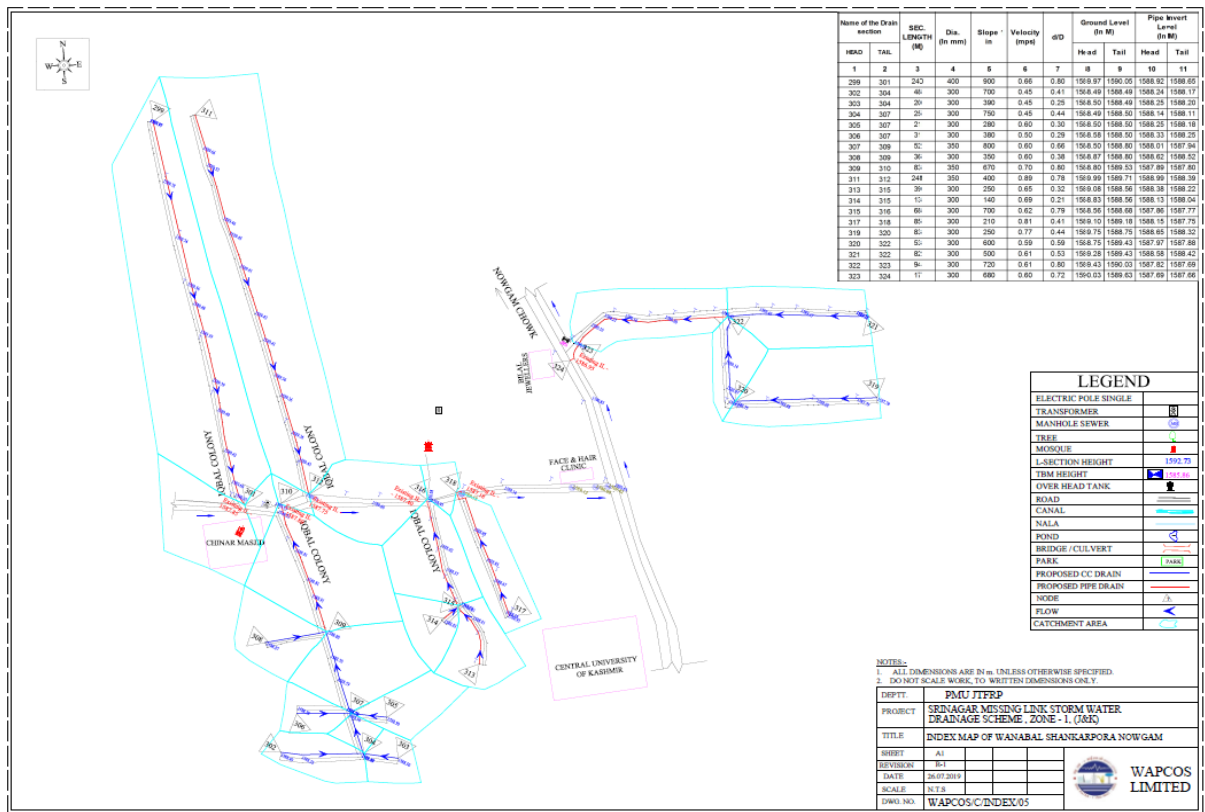
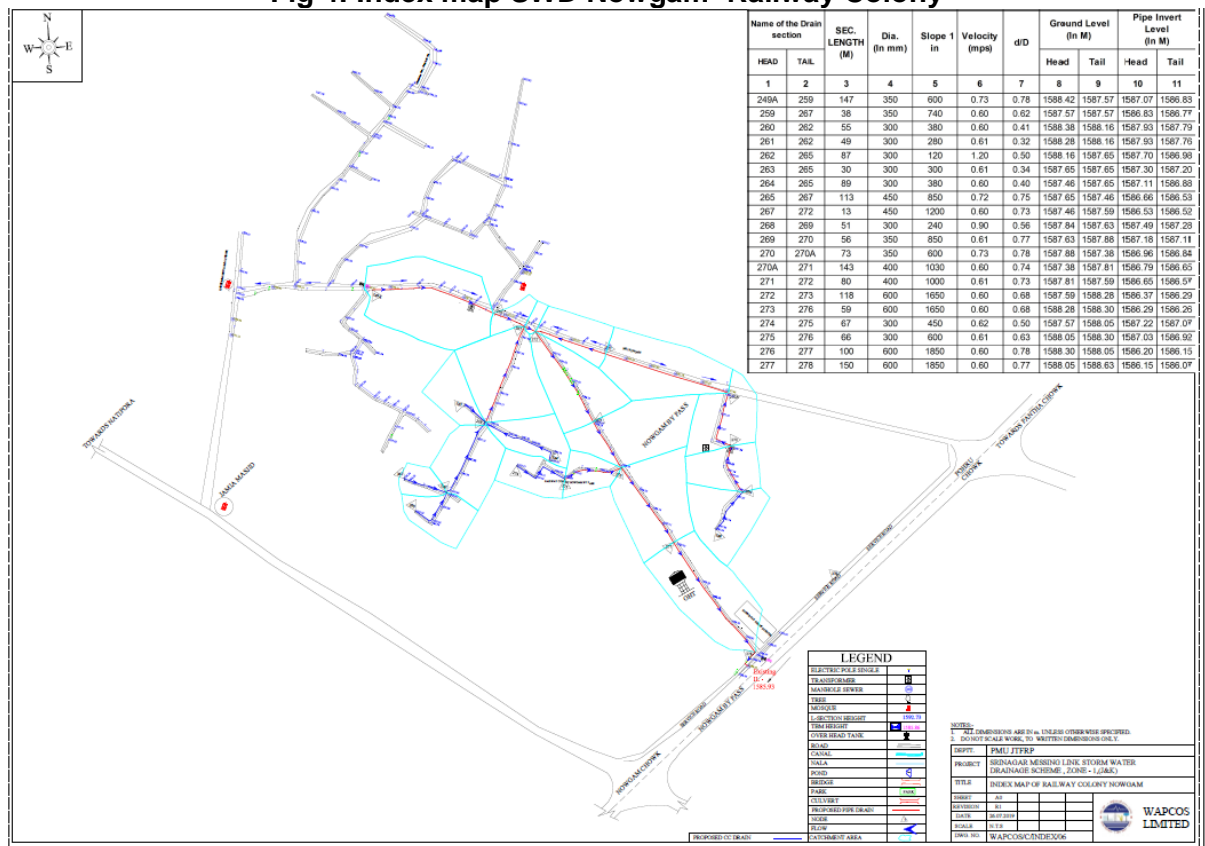


Fig 4: Index map SWD Nowgam- Railway Colony



1.6. Objective of the Environmental and Social Screening

Subprojects under “Jhelum and Tawi Flood Recovery Project” commonly known as JTFRP have a prior requirement of environmental and social screening as per World Bank obligation 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. Based on this assessment, sub-projects with potentially significant environmental/ social issues are identified at an early stage for detailed Environmental/ Social impacts. Environmental and social aspects were evaluated as per ESDS and assessed, based on the level of expected environmental and social impacts.

Based on the present study, the subproject “*Construction of the Storm Water Drainage Scheme (Missing Links) of Zone 1 in Srinagar City*” requires Environmental Assessment study.

1.7. Methodology adopted for the Screening Study

Approach adopted for this screening study is mainly based on the approved Environment and Social Management Framework (ESMF) which is developed by the World Bank for the project Jhelum Tawi Flood Recovery Project (JTFRP) as a guiding principle for the preparation of Environmental and Social reports. The initial stage adopted for the screening, was identification of environmental and social issues as a preliminary stage, the environmental and social issues were identified through filling in an Environmental and Social Data Sheet (ESDS) annexed as *Appendix-1*.

The basic objective of the filling in this data sheet is to collect basic information on environmental and social aspects of the proposed sub-project. Basic information was collected through field visits, examination of primary/ secondary data of the subproject area and through transect walk and public consultation- which involves participatory process as adopted for this screening study of proposed Missing Links Storm Water Drainage scheme of Zone 1 in Srinagar. Further, in accordance to ESMF requirement, environmental and social data pertaining to the proposed sub-project was compiled during the field data collection stage.

2. Environment Impacts

2.1. Environmental Features

Srinagar city is located on a flatter terrain. The drainage system of the city relies on lift system through drainage pumping stations, which lift surface water from wet well and discharge into the adjoining water bodies. Majority of the drains are covered with RCC slabs with manholes provided at suitable intervals to facilitate maintenance of the drainage system. The city has presently about eighty drainage pumping stations. As per surface water drainage master plan, Srinagar city is divided into three drainage zones. The proposed subproject “Construction of Missing Links Storm Water Drainage Scheme” comes under Zone-1 drainage scheme in Srinagar.

Srinagar city is conferred upon by nature with so many water bodies including world famous Dal Lake which is situated in the middle of the city. ¹River Jhelum having more than 140

¹ [River Jhelum is having more than 140 major/ minor tributaries and these tributaries play important role in flow regime of the Jhelum system.](#)

tributaries are associated with River Jhelum flows through the city and dividing it into two parts (left & right bank). The proposed drainage scheme is located on the left bank of River Jhelum.

3. Social Issues

3.1 Issue of land Acquisition

The proposed sub-project involves only the construction of storm water drainage network in missing links of Zone 1, in the Srinagar city. The laying of drainage pipes will be done in the center of the existing roads. Therefore, no private or government land is required for laying pipelines. Since the pipeline line is being proposed in the center of the existing roads, the screening exercise envisaged only temporary disruptions to commuters and others. To mitigate temporary disruptions, mitigation measures are mentioned in section 3.3.

Therefore, it can be said that there are no significant social impacts and no further study or detailed/social impact assessment needs to be undertaken.

3.2 Issues of livelihood

The screening study reveals that no land either private, community or government needs to be acquired for this sub-project. Its only the laying of pipeline and to connect those localities with the existing pumping stations which are without storm water drainage systems. During screening study it was found that no impact either permanent or temporary on land or other assets this sub-project will have. The screening exercise envisaged temporary disruptions to commuters and others only.

There will not be any kind of permanent or temporary impact on the livelihood as subproject will be mainly executed in center of the road and mostly its within the residential colonies.

3.3 Mitigation measures

Though there will not be any temporary or permanent impact on land, structures, CPR, livelihood etc. but to mitigate the potential temporary disruptions etc, the following mitigation measures mentioned in DPR will be followed during construction.

- Works shall not be carried out simultaneously over large areas of the site but shall be sequenced so that all operations likely to cause disruption to public traffic shall be undertaken and completed in discrete area before commencement of operations in other areas.
- The Contractor's Program shall, in so far as it is practicable to do so, take into consideration the commercial interest of individual shopkeepers e.g. operations should not be sequenced so as to disrupt access to individual shops having only one access from the road.
- Excavated material will be dumped on one side of the trench/drain made for laying pipeline so that on the other side commuters can move. Restoration of the excavated

portion of the road will be done on same day or with in 24 hrs. proper signages like lane close or diversion signs will be displayed.

➤ Community / local residents will be pre informed before civil work starts on any stretch. The contractor/PIU will ensure to convey proper message to the residents for temporary arrangements to park their vehicles etc during the excavation.

➤ In case during execution some ramp, stairs or any other asset damages same shall be reconstructed by the contractor. This provision is in the contract agreement and PIU will ensure this.

4. Public Consultation

Public consultation was conducted in accordance with the World Bank Guidelines and ESMF of JTFRP, which is the pre-requisite for the screening process. The purpose and objective of this consultation is the involvement of residents/ stakeholders and to make them aware about the proposed activity. The decision/proposal of construction of Storm Water Drainage (Missing Links) scheme is essentially required in areas not covered earlier is well considered as people are frequently facing waterlogging issues.

Public consultation was conducted on 14 September, 2019 for the areas in proposed scheme (Appendix-3). Community heads of the locality were consulted which helped in gathering of public in the residential houses involving both gender for the successful consultation meetings. The local residents of the proposed subproject areas were consulted based on the procedural guidelines of reaching public required for the preliminary baseline characteristics of environmental and social screening.

4.1. Consultation

- People were briefed about the proposed subproject of Storm Water.
- Drainage scheme (Missing Links) of Zone 1 and the the benefits of the subproject.
- Environmental/ social/ health improvements after execution of the sub-project.
- Concept of Environment and Social Screening requirements.
- Potential Unanticipated impacts during execution.
- Any impact on religious places and CPRs.
- Protection and conservation aspects of environmental attributes.
- Grievance redressal system

4.2. Outcome and suggestions

The response received from the local residents was very appreciable as the people coordinated with the survey team and in house meeting was arranged in Gulshan Nagar Nowgam. People were informed about the proposed SWD scheme in areas not covered earlier. Purpose of present study “Environmental and Social Screening” was also discussed and following general suggestions were recorded as summarized below;

1. With the augmentation of the proposed storm water drainage in the Zone-1 areas people will have access to better sanitation living condition. The persistent water logging in these areas will be addressed.

2. Public safety measures should be in place during execution of works.
3. The local residents have ensured full cooperation and support for the successful execution of the project. They have also ensured to provide the responsible people who will liaison/ coordinate with the implementing agency and the contractor for community related issues.
4. Temporary access routes/ ramps/ bridges shall be provided during excavation activity if any.
5. Local residents who are related to the construction industry shall be given preference with the proposed works.

Appendix-1: Environment and Social Screening Data Sheets

Part A: General Information

1. Name of the sub-project	Construction of Missing Links Storm Water Drainage Scheme of Zone-1 in Srinagar, J&K	
2. Type of proposed activity (tick the applicable option and provide details)		
• Road	<input type="checkbox"/>	-
• Bridge	<input 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 checked="" type="checkbox"/>	Storm Water Drainage
• Other Public Building	<input type="checkbox"/>	-
• Any Other (Please Specify)	<input type="checkbox"/>	-
3. Location of the proposed sub-project		
• Name of the Region	Kashmir (J&K State)	
• Name of the District	Srinagar	
• Name of the Block	Srinagar	
• Name of the Settlement	Nowgam, Gulshan Nagar, Chanapora, Lal Nagar, Rawalpura, Sanat Nagar, Parraypora, Peerbagh, Alamdar Colony, Shah Anwar Colony, Gulberg Colony, Rawathpora, Bemina, Qamarabad, HMT, Shalteng, etc.	

• Latitude	34 ⁰ 01'49.86"N (Start at Nowgam) 34 ⁰ 06'50.80"N (Ends at Shalteng)
• Longitude	74 ⁰ 49'35.09"E (Starts at Nowgam), 74 ⁰ 43'27.25"E (Ends at Shalteng)
4a. Proposed Nature of Work (tick the applicable options)	
• Minor Repairs	-
• Major Repairs/Rehabilitation	-
• Upgrading/Major Improvement	-
• Expansion of the facility	-
• New Construction	√ Storm Water Drainage
• Any Other	-
4b. Size of the sub-project (approx. area in sq. mt/hac or length in m/km/feet/miles)	Total Length of Drainage Network: 38.269 Km
5. Land Requirement (in hac./sq.mt.)	
• Total Requirement	Nil
• Private Land	Nil
• Govt. Land	Nil
• Forest Land	Nil
6. Implementing Agency Details (sub-project level)	
• Name of the Department/ Agency	Jhelum Tawi Flood Recovery Project (PMU)
• Name of the contact person	Mushtaq Ahmad Shah
• Designation	Assistant Project Manager
• Contact Number	+91-9419478025
• E-mail Id	pmukashmir@gmail.com ; mushtaqshah786@gmail.com

7. Screening Exercise Details	
• Date on which it was carried out	14/09/2019
• Name of the Person	Akhter R. Bhat
• Contact Number	+91-9419552221; 7006543364
• E-mail Id	akhter_b@hotmail.com ; akhter.bhat3@gmail.com .

Part B (1): Environment Screening

Question	Yes	No	Details
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 flora (outside protected areas)		No	-
i. Reserved/Protected Forest		No	-

j. Other category of Forest		No	-
k. Wetland		No	
l. Natural Lakes		No	
m. Rivers/Streams	Yes		Doodhganga Nallah near Chanapora and River Jhelum near Shalteng, Parimpora, Bemina/ Qamarabad within 1km of the proposed site
n. Swamps/Mudflats		No	-
o. Zoological Park		No	-
p. Botanical Garden		No	
2. 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/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		Flood spill channel of river Jhelum near Bemina, Flood Spil Channel of Doodhganag near Alamdar Colony.
g. Public Water Supply Areas from Rivers/Surface Water Bodies/ Ground Water Sources		No	-
3. What is the High Flood Level in the sub-project area?	2.5 m above N.S.L		
4. Is any scheduled/protected tree like Chinar, Mulberry or Deodar likely to be affected/ cut		No	
5. Is the sub-project located in a landslide/heavy erosion prone area or affected by such a problem?		No	
6. 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/State) Permission Required	No
6.	Permission from ULB/Local	Yes

	Body/Department Required	<ul style="list-style-type: none"> • Permission for Construction of Storm Water Drainage will be required from Srinagar Municipal Corporation (SMC).
7.	Any other clearance/permission required	<p>Yes</p> <p>For construction/ operation of the site and procurement of aggregate material from crusher units/ quarry sites/ borrow areas/ construction vehicles involved following consents/ permission are required;</p> <ul style="list-style-type: none"> ▪ Consent to Establish (CTE) and Consent to Operate (CTO) from SPCB for the crusher units. ▪ Consent to establish/ operate Pumping station / DG Sets from the SPCB. ▪ PUC's and other fitness certificates of equipment's etc. are required on site. ▪ Construction material will be procured only from permitted sites and licensed /authorized quarries/ borrow sites approved by the Geology & Mining Department for which contractor have to produce royalty receipts.

Part C (1): Social Screening

1. Does the sub-project activity require acquisition of land?			
Yes	-	No	√
Give the following details:	Private Land (sq mts/hac.)		-
	Govt. Land (sq mts/hac.)		-
	Forest Land (sq mts/hac.)		-
2. Does the proposed sub-project activity result in demolition/removal of existing structures?			

Yes		No	√
If so, give the following details:			
• Number of public structures/buildings	-		
• Number of common property resources (such as religious/cultural/drinking water/wells/etc.)	-		
• Number of private structures (located on private or public land)	-		
3. Does the proposed project activity result in loss of crops/trees?			
Yes		No	√
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 proposed Project activity affect scheduled tribe/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)	Abbreviated RAP is not required

3.	Answer to any question is 'Yes' and the sub-project affects more than 200 people (<i>i.e. either complete or partial loss of assets and/or livelihood</i>)	SIA/RAP is not required
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Outcome:

The proposed subproject does not involve the acquisition of land or structures as the proposed scheme is only laying of RCC drainage pipes in the middle of the existing roads. However, ESMP will be prepared and implemented to avoid any temporary disruptions during execution.

Appendix-2: Photographs SWD network site



Proposed sites of Storm Water Drainage (Missing Links) in Zone 1, Srinagar



Site condition of the uncovered areas proposed for the Storm Water Drainage (Missing Links) in Zone of the Srinagar City.

Appendix 3: Signature Sheets and Photographs

JHELUM TAWI FLOOD RECOVERY PROJECT (JTFRP), JAMMU & KASHMIR
World Bank Supported Project

LIST OF PARTICIPANTS IN PUBLIC CONSULTATION WITH SIGNATURES

SUB-PROJECT NAME: Missing Links Storm Water Drainage of Zone-1 in Srinagar City, J&K
 LOCATION OF MEETING/ CONSULTATION: Gulshan Nagar, Newpora, Egbert colony
 DATE AND TIME: 3:30 PM Public Consultation Conducted by: Arshad L. Bhat

S. No	Name	Age/ Sex	Occupation	Address	Signature
1.	Abdul Gani Bhat	70/M	Business	Gulshan Nagar,	[Signature]
2.	Tariq Ah. Bhat	37/M	Business	Gulshan Nagar,	[Signature]
3.	Gulshan Ahmad Bhat	42/M	Business	Gulshan Nagar,	[Signature]
4.	Ab. Hameed Bhat	40	Business	Gulshan Nagar,	[Signature]
5.	Mohd Sultan Bhat	65	Business	Gulshan Nagar Newg.	[Signature]
6.	Nisar Ah. Wani	50	Mechanic	G.N. Newg.	MISSAR
7.	Rizaz Ahmad Wani	43	Business	G.N. Newg.	[Signature]
8.	Maji Bashir Ahmad Bhat	65	Shopkeeper	Egbert Colony	[Signature]
9.	Ali Mohd Rather	65	Farmer	Egbert Colony, G.N.	[Signature]
10.	Mohd Yusuf Rather	67	Labour	Newpora, G.N.	[Signature]
11.	Mohd Yaseen Zadoo	43	Stamp Vendor	Newpora, G.N.	[Signature]
12.	Mohd Masood Rather	60	Farmer	Egbert Colony	[Signature]
13.	Maji Abdul Rashed Bhat	62	Retd. Govt. Employee	Egbert Colony	[Signature]
14.	M. Yaseen Bhat	59/M	Carpenter	Egbert Colony	[Signature]
15.	M. Young Bhat	45/M	Maron	Egbert Colony, G.N.	[Signature]
16.	Shomrat Ah. Bhat	35/M	Mechanic	Newpora G.N.	Shomrat

[Signature]

Environmental & Social Screening

JHELUM TAWI FLOOD RECOVERY PROJECT (JTFRP), JAMMU & KASHMIR
World Bank Supported Project

LIST OF PARTICIPANTS IN PUBLIC CONSULTATION WITH SIGNATURES

SUB-PROJECT NAME: *Missing Links Storm water Drainage*
 LOCATION OF MEETING/ CONSULTATION: *Mawya, S.N.*
 DATE AND TIME: *4:30 PM* Public Consultation Conducted by: *Akhter K. Bhat*

S. No	Name	Age/ Sex	Occupation	Address	Signature
1.	<i>Naji Dahir Ahmad Bhat</i>	<i>62</i>	<i>Retd. Govt Employee</i>	<i>Gulshan Nagar</i>	<i>[Signature]</i>
2.	<i>Mohd. Altaf Bhat</i>	<i>50</i>	<i>Labour</i>	<i>Gulshan Nagar</i>	<i>[Signature]</i>
3.	<i>Zameer Sh. Bhat</i>	<i>48</i>	<i>Carpenter</i>	<i>Gulshan Nagar</i>	<i>[Signature]</i>
4.	<i>Gh. Mohi-ud-din Bhat</i>	<i>50</i>	<i>Govt. Employee</i>	<i>S.N, Mawya</i>	<i>[Signature]</i>
5.	<i>Dr. Shabir Sh. Nengroo</i>	<i>48</i>	<i>Doctor</i>	<i>S.N, Mawya</i>	<i>[Signature]</i>
6.	<i>Ab. Rasheed Shukh</i>	<i>60</i>	<i>Mason</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
7.	<i>Shafiq. Mammad Bhat</i>	<i>50</i>	<i>Labour</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
8.	<i>Ab. Shad Bhat</i>	<i>65</i>	<i>Labour</i>	<i>Dept. Colony, S.N</i>	<i>[Signature]</i>
9.	<i>Dr. Ab. Manan Shukh</i>	<i>45</i>	<i>Doctor</i>	<i>Dept. Colony, S.N</i>	<i>[Signature]</i>
10.	<i>Ali Mohd Khan</i>	<i>75</i>	<i>Contractor</i>	<i>Gulshan Nagar</i>	<i>[Signature]</i>
11.	<i>Dr. Riyaz Makhdam</i>	<i>65</i>	<i>Doctor</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
12.	<i>Javaid Sh. Bhat</i>	<i>35</i>	<i>Businessman</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
13.	<i>Naji Murtaza Sh. Bhat</i>	<i>43</i>	<i>Businessman</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
14.	<i>Fayaz Ahmad Bhat</i>	<i>55</i>	<i>Businessman</i>	<i>Mawya, S.N</i>	<i>FAYAZ</i>
15.	<i>Ab. Nareed Bhat</i>	<i>65</i>	<i>Retd. Govt. Employee</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>
16.	<i>Amir Rasheed Bhat</i>	<i>27</i>	<i>Student</i>	<i>Mawya, S.N</i>	<i>[Signature]</i>

Closed for the Consultation
[Signature]



Arranged public consultation was conducted in a residential house of Haji Gulam Hassan Bhat R/o: Gulshan

Nagar, Nowgam. Most of the people were assembled there with the close coordination and support from the residents.

