

Semi-Annual Environmental Monitoring Report

Project No. 41116-043
Loan Number: 3132 IND
Period: July 2019 to Dec 2019
Tranche: 3

IND: Jammu and Kashmir Urban Sector Development Investment Program

Submitted By:
Economic Reconstruction Agency, Government of Jammu and Kashmir

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1. INTRODUCTION

1.1. Overall Project Description:

1. The State of Jammu and Kashmir lies in the northernmost part of the country and shares international border with Pakistan and China. This physiographic situation attaches strategic importance to the region as well as the infrastructural development in the state. The state has three main geographical regions namely Jammu, Kashmir valley and highlands of Ladakh. As per details from Census 2011, Jammu and Kashmir has population of 1.25 Crores, an increase from figure of 1.01 Crore in 2001 census. The population forms 1.04% of India in 2011, compared to 0.99% in 2001. As per census 2011, the Sex Ratio of female is 889 per 1000 male, which is below national average of 940. While in 2001 the sex ratio of female was 900 per 1000 males. The literacy rate has seen an upward trend at 67.16% as per 2011 census as compared to the national literacy rate of 64.80%, while in 2001 literacy rate stood at 55.52%.
2. Jammu and Srinagar are the two major cities where majority of urban population is concentrated while other smaller towns share the rest. Urban infrastructure in these places for long has been neglected and hence, is subject to severe urban infrastructure problems. Although, at least, majority of population in Jammu and Srinagar cities have been provided with piped water supplies, the other urban amenities remain neglected. This is mainly due to meager investments made in the urban infrastructure either by private or by public sector.
3. The Government of Jammu and Kashmir (GoJK), apart from the ADB financed Multi-Sector Project for Infrastructure Rehabilitation (MPIR) in Jammu and Kashmir, again approached ADB for assistance in urban sector development for more development works and studies so as to implement comprehensively the urban sector reforms. The GoJK through Jammu and Kashmir Economic Reconstruction Agency has conceived the Jammu and Kashmir Urban Sector Development Investment Program (JKUSDIP) in its effort to boost economic growth in Jammu and Kashmir State. The primary objective of JKUSDIP is to promote economic development in Jammu and Kashmir State through expansion of basic services such as water supply, sewerage, sanitation, drainage, solid waste management, urban transport and other municipal functions in Jammu, Srinagar and other important urban centers of the State. JKUSDIP will also strengthen the service delivery capacity of the responsible state urban agencies and urban local bodies through management reforms, capacity building and training.

1.2. Project Objectives:

4. The proposed JKUSDIP will foster the economic growth in Jammu and Kashmir State. The long term Project objectives are to contribute to the economic development of Jammu and Kashmir through enhanced and sustainable growth in the main urban areas with emphasis on promoting commerce and on improvement of livelihood for the poor.
5. The urban sector sub-projects are aimed at expansion of basic services such as water

supply, sanitation, waste management, urban transport and other municipal functions in Jammu and Srinagar cities and other urban centers in order to cater to the demands and requirements of the increasing population. The overall program envisages the following broad benefits:

- i. Improved water supply system
- ii. Improved drainage waste management systems
- iii. Improved road and traffic (urban transport) conditions
- iv. Other municipal facilities.
- v. Adequate Mechanized Parking.

1.3. Environmental Category:

6. The Project 3 (Tranche-3) under JKUSDIP was categorized as **Environmental Category “B”**, according to ADB’s Safeguard Policy Statement (2009). All the subprojects under execution in Srinagar and Jammu have been categorized as Category “B”.

1.4. Environmental Performance Indicators, if any:

7. For effective monitoring, selected environmental parameters have been identified as indicators which may be qualitatively and quantitatively measured and compared over a period of time in order to assess/ensure the compliance to environmental management plans (EMPs). The environmental performance indicators selected are physical, biological and social characteristics identified as most important in affecting the environment at critical locations all along the sub-project corridors. The parameters identified as performance indicators are:
 - i. Compliance with environmental management and monitoring plan.
 - ii. Compliance to State/National environmental regulations.
 - iii. Monitoring of ambient air quality, water quality and noise levels and comparison with baseline environmental quality and State/National standards.

1.5. Overall project progress, agreed milestones and implementation schedules:

8. In **Srinagar**, following all subprojects Stands Completed:
 - i. Construction of Surface water Drainage System for Rawalpura-Chanapora area (Overall progress of the contract is about 100%)
 - ii. Providing and laying of Raw Water main from higher reaches of Doodhganga Nallah to Kralpora Treatment plant at Srinagar (Overall progress of the contract is about 100%)
 - iii. Construction of New Mehjoor Bridge at Jawahar Nagar (100% Completed) and Two Grade Separators in Srinagar city”. (Overall progress of the contract is about 100%)
9. In **Jammu**, all subprojects stands completed
 - i. Rehabilitation of Water Supply Network in Identified Areas within Zone 2, 3, 4 and 5 in Jammu City. Contract Package No: JKUSDIP/Jammu/WS 05. (Overall progress of the contract is about 100%)

- ii. Providing, Laying, Jointing, Testing and commissioning of Sewerage Network in Bakshi Nagar, Shakti Nagar, Shiv Nagar and Janipur Areas in Division A Phase II at Jammu. Contract Package No: JKUSDIP/WW/07. (Overall progress of the contract is about 100%).
- iii. Multi-Level mechanized Parking at City Chowk Jammu (Overall progress of the contract is about 100%).
- iv. Up gradation of Water Supply Network for reduction of Non-Revenue Water (NRW) in Zone-1 in Old City, Jammu (Overall progress of the contract is about 100%)

1.6. Any other information useful for assessing environmental performance of the project:

Institutional Arrangement

10. ERA has full-fledged safeguard section which has been created in the PMU to facilitate the implementation of the safeguards policy, headed by Director Safeguards, who is responsible for providing overall guidance. This position is always held by a Chief Engineer ranked officer of the GoJK. Currently two environmental experts- one each at Jammu and Srinagar are working in PMU under Director Safeguards. Mr. Yadullah Shah is currently working as Environmental Expert, Srinagar (Mob. 9419063525) and Mr. Charanjeet Singh as Environmental Expert, Jammu (Mob. 9419893392). However, one Social expert is looking after both the regions. Usually the PMC and the DSC of the project has position of the environmental experts, who are mobilized on intermittent basis assisted by full-time environmental support staff. In PMC, Environmental Expert continued to work on regular basis till Sep 2017. The contractual tenure of Project Management Consultancy (PMC) was over in Sept 2017, since then no PMC service is available for the projects. The DSC in Srinagar region has a fulltime support staff to look after the environmental related issues. As for the DSC in Jammu, it is working with minimum staff and currently no environmental staff is available in it.

Public consultation and grievance redressal:

11. Public consultation has evolved as a useful tool in addressing the issues and rectification of the same wherever possible. The public consultation is the ongoing and continuous process, which is conducted on regular basis in Srinagar and Jammu subprojects under execution, with local residents to ensure that they are fully engaged in the project and have the opportunity to participate in its implementation. Formal consultations as well as adhoc regular discussions with the local residents both form part of the public consultation process.
12. Communication with the local residents is always open and views of the residents are taken into consideration during planning of the work programs under JKUSDIP so that the people suffer least disturbance and inconvenience as the work is executed.
13. Various issues were discussed during formal consultation which includes:-
 - a) Removal of surplus and waste material
 - b) Restoration of damaged water supply connection
 - c) Restoration of roads and lanes where execution of works involved.
 - d) Inconvenience with regard to access disruption
 - e) Safeguard measures like dust suppression actions

- f) Worker and public safety measures at immediate construction sites.

14. Mitigation measures discussed during formal consultation includes:

- i. Clearing passage ways and roads of surplus waste material on priority
- ii. Speedy restoration of all the utilities
- iii. Simultaneous road restorations after execution of work
- iv. Provision of alternate access routes till restoration is achieved
- v. Using appropriate dust suppression measures and environmental monitoring.
- vi. Frequent water sprinkling and removal of left over soil arising due to the excavation activities.
- vii. Barricading of the site under construction to ensure safety of pedestrians etc

Grievance Redressal Mechanism

15. Project specific redressal of grievances is handled by the ERA and in this regard an efficient “Grievance Redressal Mechanism” as agreed in IEEs of Tranche 3 subprojects has been kept in place that assist the affected persons in resolving queries and complaints. The Grievance Redressal Mechanism have following approach:
- If the affected person has any complaint or grievance, he/she is free to lodge his/her complaint with the Project Manager, PIU, JKUSDIP, ERA who will make efforts to address the complaint on ground level itself. The Project Manager will make efforts to redress the grievance within 1 week from the receipt of the grievance.
 - In case the affected person is not satisfied or his grievance is not redressed he can take the matter to Director Central/ Safeguards who will ensure that grievance is redressed within 2 weeks.
 - If Director Safeguards cannot resolve the complaint or the affected person is not satisfied with resolution/ decision, he/she can take the matter to the Chief Executive Officer of ERA.
 - Affected persons, at any moment of time are free to approach the court of law at their own will and expenses.
16. Besides the grievance redressal mechanism of the subproject, state has online grievance monitoring system known as Awaz-e-Awam’ through which affected persons can also lodge their complaints. The affected persons can also lodge their complaints online at <http://www.jkgrievance.in>. and is linked with the official website of the ERA.
17. Apart from the above detailed mechanism for the grievances received at the level of ERA, the provision is already kept in the EMP of the subprojects wherein the contractor will depute one Environmental Safeguard Officer (refer Table 4 for details) who shall be responsible for implementation of EMP, reporting and grievance redressal on day-to-day basis. The grievances/complaints received at the level of contractor shall be recorded on the Complaints Register and the same shall be forwarded to the DSC (Engineer of the Contract) within 48 hours along with the details of action taken to redress the grievance. The Team Leader of DSC shall immediately try to resolve the issues and forward the details to the Project Manager of PIU. If the action taken by Contractor and DSC is found to be inadequate, then necessary instructions shall be issued by the Project Manager, PIU for implementation of rectification measures. Project Manager PIU shall report the matter to Director Safeguards along with the details on action taken. In order to facilitate the public in

general to approach the authorities in case of grievances/complaints, information boards with contact details of Contractor, Team Leader of DSC, Assistant Project Manager of PIU, Deputy Project Manager of PIU and Project Manager of PIU shall be displayed at all the sub-project sites.

Information Disclosure

18. Electronic version of this “Semi-Annual Environmental Monitoring Report (SAEMR)” will be placed/ uploaded in the official website of the PMU-JKERA immediately after approval of the SAEMR by ADB.

2. COMPLIANCE STATUS WITH NATIONAL /STATE /LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

19. **Table-1:** Status of statutory environmental requirements is shown in the following table:

S. No.	Name of Sub-project	Statutory Environmental Requirements	Status of Compliance	Actions Required
A. Srinagar Subprojects				
1.	Construction of Surface water drainage system for Rawalpura-Chanapora area (Package: JKUSDIP Srinagar/SWD/02).	Environmental clearance under EIA Notification, 2006.	Not applicable	Sub Project completed
		Approval for tree cutting	Not required	
		Consent to establish/operate for stone crusher.	Consent to Operate Stone Crusher Plant Fresh renewed consent: Consent No: SPCB/digital/1806319644 of 2018 Dated: 13/09/2018 Valid upto September 2019	
		Consent to establish & operate Hot Mix Plant	Contractor submitted consent of HMM Plant. Consent No: 914 of 2016 Valid up to July 2019	
		Consent to establish & operate Batching Plant	Obtained and Submitted by Contractor. Submitted under consent no. 914 of 2016 and is valid up to July 2019	
		Consent to establish and operate DG Sets	Not in use during monitoring period	
		PUC certificates for contractor's vehicles.	Submitted by contractor	
2.	Providing and Laying of Raw water main from higher reaches of Doodhganga Stream to Kralpora Water Treatment Plant. (Package: JKUSDIP Srinagar/WS/02).	Environmental clearance under EIA Notification (MoEF), 2006.	Not applicable	Sub Project completed
		Approval for tree cutting	Not required	
		Consent to establish/ operate Stone Crusher Plant from SPCB	Contractor has been procuring Stone Aggregate material from outsourced agency. Renewed consent to operate stone crusher	

S. No.	Name of Sub-project	Statutory Environmental Requirements	Status of Compliance	Actions Required
			plant: Consent no. 631 of 2016 dated 22/09/2016 and is valid up to June 2019.	
		Consent to establish & operate Hot Mix Plant	Consent to Operate: Consent No. 760 of 2016 dated 26/10/2016 valid till 26/10/2018 However, not in use after October 2018.	
		Consent to establish/ operate DG Set from SPCB (If required).	Not required during the present period	
		PUC certificates for contractor's vehicles.	Stands submitted by the contractor	
3.	Construction of New Mehjoor Bridge at Jawahar Nagar and Two Grade Separators in Srinagar city	Environmental clearance under EIA Notification, 2006.	Not Applicable	
		Approval for tree cutting	Permission/ NOC for cutting of 11 Nos Mulberry Trees: NOC No. (DS/Plan/2014-15/537-38) dated: 28.5.2015 obtained from Dept. of Sericulture for cutting 11 trees. 11 nos Mulberry trees stands cleared in 2015	
		Consent to establish/operate for stone crusher.	Stone Crusher Plant Old consents submitted having consent no. 601 of 2016 dated 22/09/2016 valid upto May 2019 New fresh renewed Consent No: SPCB/digital/1906706329 of 2019 Dated: 08/01/2019 Valid upto December 2019.	Mehjoor bridge Subproject Completed.
		Consent to establish/ operate Batching Plant	Batching Plant Consent to Operate: Consent No. of 138 RD/C of 2015 Dated: 28/07/2015 Valid for 2 years however not in use during monitoring period.	Grade Separator Subproject Completed.
		Consent to establish & operate Hot Mix Plant	HMM Plant Consent to Operate: Consent No.1117 of 2015 Dated: 28/07/2015 Valid upto October 2016.	

S. No.	Name of Sub-project	Statutory Environmental Requirements	Status of Compliance	Actions Required
			Fresh consents submitted having consent no 956 of 2017 Dated 07/01/2017 valid till 07/01/2018 Renewed Consent: Consent No: 578 of SPCB Dated: 02/03/2018 Valid upto January 2021	
		Consent to establish and operate DG Sets	DG Set (2 No's) Consent to Operate: Consent No. 136 RDK of 2015 Dated: 28-07-2015. Validity till July 2017 .Not in use during monitoring period.	
		PUC certificates for contractor's vehicles.	Submitted by the Contractor.	
B. Jammu Subprojects				
4	Rehabilitation of Water Supply Network in Identified Areas within Zone 2, 3, 4 and 5 in Jammu City. Package No: JKUSDIP/Jammu/ WS-05	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required	Subproject Completed
		Consent to establish and operate stone crusher.	Not required	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor	
5.	Providing, Laying, Jointing, Testing and Commissioning of Sewerage network in Bakshi Nagar, Ranbir Collector, Janipur, Shiv Nagar and Shakti Nagar of division 'A' Phase-II at Jammu." (Balance works of WW-01 & WW-02). Package No. JKUSDIP/Jammu/WW-07.	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required.	Subproject Completed
		Consent to establish and operate stone crusher.	Stone aggregate material is being procured from approved Stone Crusher Plant having following consent details; Consent to Operate: Consent No: 14 of 2016, Dated: 04/04/2016 Valid upto March 2017.	

S. No.	Name of Sub-project	Statutory Environmental Requirements	Status of Compliance	Actions Required
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor	
6.	Mechanized Semi-Automatic Parking facility at Super Bazaar City Chowk Jammu. Package No.: JKUSDIP/Jammu /UT 02	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required	Subproject Completed
		Consent to establish and operate stone crusher	Contractor was procuring material from approved batch mix plant.	
		Consent to establish and operate of concrete batching plant	Contractor was procuring material from approved source. The consent to operate certificate from utility owner obtained and submitted by Contractor. Batching plant Consent No: 721 of 2015 Dated: 11-07-2015 Valid upto: February, 2018.	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor.	
7.	Upgradation of water supply network for reduction of Non- revenue water (NRW) in Zone 1 Old city Jammu	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required	Subproject Completed
		Consent to establish and operate stone crusher	Not Required	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor.	

3. Compliance Status with the Environmental Covenants as Stipulated In the Loan Agreement

20. **Table-2:** Status of compliance with environmental loan covenants of Tranche-3 is presented below:

Loan Covenants	Compliance status
The Borrower shall ensure, or cause the EA to ensure that;	
the preparation, design, construction, implementation, operation and decommissioning of the project, and all subproject facilities comply with; (i) all applicable laws and regulations of the Borrower and the State relating to environment, health, safety; (ii) the Environmental Safeguards; (iii) EARF; and (iv) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Being complied with.
All bidding documents and contracts for Works contain provisions that require contractors to:- – Comply with the measures and requirements relevant to the contractor set forth in the IEE and EMP; and any corrective or preventive actions set out in a Safeguards Monitoring Report.	The bidding documents and contract agreements for work are incorporated with provisions set forth in the IEE and EMP and are being complied with.
– Make available a budget for all such environmental measures.	Environmental monitoring and mitigation costs allocated/ incorporated in contract agreements.
– Provide the EA with a written notice of any unanticipated environmental impacts that arise during construction, implementation or operation of the project that were not considered in the IEE and in the EMP.	Being complied with
– Adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction.	The existing condition of roads and other infrastructure has been recorded in the form of photographs and video recording as well.
– Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	All the areas that if disturbed by construction activities will be cleared and restored to pre-project condition.
– Submit semi-annual Safeguards Monitoring to ADB and disclose relevant information from such reports to affected persons promptly upon submission;	Semi-annual report prepared and submitted to ADB as per the guidelines.
– If any unanticipated environmental risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE and EMP as applicable, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and	In case of any unanticipated environmental risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE and EMP as applicable that shall be immediately informed to ADB with detailed description of the event and proposed corrective action plan.
– Report any breach of compliance with the measures and requirements set forth in the EMP, promptly after becoming aware of the breach.	Breach will be reported to ADB immediately after becoming aware of it.

4. COMPLIANCE STATUS WITH ENVIRONMENTAL MANAGEMENT AND MONITORING PLANS AS STIPULATED IN THE ENVIRONMENTAL DOCUMENTATION AS AGREED WITH ADB.

21. **Table-3:** The compliance status with environmental management and monitoring plan is shown in the following table:

S. No	Sub-project Name	EMP Part of Contract Documents	EMP Being Implemented	Environmental Safeguards Officer (ESO)	Status of EMP Implementation	Actions Proposed/ Additional Corrective Measures Required
		(Yes/No)	(Yes/ No)	(Yes/ No)	(Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	
Srinagar Subprojects						
1.	Construction of Storm water drainage system for Rawalpura-Chanapora area (Package: JKUSDIP Srinagar/SWD/02).	Yes	Yes	Yes Mr. Umer Mukhtar Shah	Satisfactory	Sub Project Completed
2.	Providing and Laying of Raw water main from higher reaches of Doodhganga Nallah to Kralpora Water Treatment Plant. (Package: JKUSDIP Srinagar/ WS/02).	Yes	Yes	Yes Mr. Farhan Ahmad was mobilized till August 2018.	Satisfactory	Sub Project completed
3.	Construction of New Mehjoor Bridge at Jawahar Nagar and Two Grade Separators in Srinagar city	Yes	Yes	Yes Er. Asif Mushtaq Mr. Arif Amin	Satisfactory	Sub Project completed
Jammu Subprojects						

S. No	Sub-project Name	EMP Part of Contract Documents	EMP Being Implemented	Environmental Safeguards Officer (ESO)	Status of EMP Implementation	Actions Proposed/ Additional Corrective Measures Required
		(Yes/No)	(Yes/ No)	(Yes/ No)	(Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	
4.	Rehabilitation of Water Supply Network in Identified Areas within Zone 2, 3, 4 and 5 in Jammu City. Package No.: JKUSDIP/Jammu/WS 05	Yes	Yes	Subproject Completed.		
5.	Providing, Laying, Jointing, Testing and Commissioning of Sewerage network in Bakshi Nagar, Ranbir Collector, Janipur, Shiv Nagar and Shakti Nagar of division ‘A’ Phase-II at Jammu.” (Balance works of WW-01 & WW-02). Package No. JKUSDIP/Jammu/WW-07.	No (Separate EMP copy issued to the Contractor)	Yes	Subproject Completed.		
6.	Mechanized Semi-Automatic Parking facility at Super Bazaar City Chowk Jammu. Package No.: JKUSDIP/Jammu/UT 02	Yes	Yes	Subproject Completed.		

S. No	Sub-project Name	EMP Part of Contract Documents	EMP Being Implemented	Environmental Safeguards Officer (ESO)	Status of EMP Implementation	Actions Proposed/ Additional Corrective Measures Required
		(Yes/No)	(Yes/ No)	(Yes/ No)	(Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	
7.	Upgradation of water supply network for reduction of Non-revenue water (NRW) in Zone 1 Old city Jammu	Yes	Yes	Subproject Completed.		

5. APPROACH AND METHODOLOGY ENGAGED FOR ENVIRONMENTAL MONITORING OF THE PROJECT

22. In Srinagar, construction works of all subprojects is complete and in Jammu all subprojects also stands completed.
23. In compliance to Environmental Management Plan (EMP), all the contracting firms had mobilized their designated Environmental Safeguard Officers during the execution of the respective sub-projects ensuring EMP implementation at site and reporting thereof. Site visit/ inspections were carried out on regular basis to assess the EMP implementation of Tranche-2 subprojects during execution.

6. MONITORING OF ENVIRONMENTAL RECEPTORS/ ATTRIBUTES

6.1 Monitoring basis:

24. Air quality, water quality and noise levels were required to be monitored to check if any adverse impact is being caused by the construction activities. The monitoring of these variables was carried out in construction areas at sensitive locations within 100m impact zone of the subproject during the construction and post construction phases of the sub-projects.

6.2 Type of environmental receptor/attribute monitored(for each type):

25. The environmental attributes which were monitored included the air, noise and water quality parameters at the construction sites in sub-project corridors. The air quality parameters monitored included RSPM (PM₁₀) and (PM_{2.5}), SO₂ and NO₂. The water quality parameters included temperature, pH, electrical conductivity (EC), dissolved oxygen (DO), biochemical oxygen demand (BOD₅), chemical oxygen demand (COD), total suspended solids (TSS), total dissolved solids (TDS), Turbidity, Total Alkalinity, Total hardness, Calcium Hardness, Magnesium Hardness. In case of noise quality assessment, the day time Leq values were monitored.

6.3 Methodology, Regulatory Standards of monitoring and equipment's adopted for Environmental Monitoring Laboratory (EML):

26. **Table-4:** The Assessment Methodology, Acceptable Standards and Equipment's adopted for monitoring:

S.No	Parameters	Assessment Methodology	¹ Acceptable Standards	Cause for rejection	Equipment's in Use
A. Ambient Air Quality (²NAAQ Standards, 2009)- Time weighted average and Methodology Adopted					
1.	RSPM-particulate matter PM ₁₀	Gravimetric High Volume Sampler method with (attached cyclone).	100 µg/m ³ 60 µg/m ³		Respirable Dust Sampler, Envirotech - APM 460 BL Digital Balance, Schimadzu – BL-220H
2	Fine particulate matter PM _{2.5} ,	Gravimetric method. Beta Attenuation	60µg/m ³ 40µg/m ³		Ambient Fine Dust Sampler, Instrumex-IPM-FDS
3.	SO ₂	Modified West and Gaeke Method.	80 µg/m ³		High Volume Air Sampler, Envirotech – APM 460BL. Thermo-electrically cooled gaseous sampling attachment, Envirotech –APM 411TE Digital Spectrophotometer, EI-305.
4.	NO ₂	Modified Jacob & Hochheiser Method.	80 µg/m ³		High Volume Air Sampler, Envirotech – APM 460BL. Thermo-electrically cooled gaseous sampling attachment, Envirotech –APM 411TE Digital Spectrophotometer, EI-305.
B. ³Ambient Noise Level					
1.	Residential Area	Direct Reading in Decibel Sound Level Meter.	55dB(A) L _{eq} (Day time)		Digital Sound Level Meter, AZ-8928
2.	Commercial Area	Direct Reading in Decibel Sound Level Meter.	65 dB(A) L _{eq} (Day time))		Digital Sound Level Meter, AZ-8928
C. ⁴Ambient Water Quality (For Drinking / Ground Water)					
1.	Temp (in °C)	Digital/Mercury Thermometer Method.	>20 °C		Digital/Mercury Thermometer
2.	Color (Hazen units)	Hazen Method	5 Platinum cobalt	25	-

¹CPHEEO Manual, MoUD, GOI, May 1999; and MoEF, Act and Rules, 1986 & Amendments 2000

² National Ambient Air Quality Standards (NAAQS)

³ Standards specified in the schedule of Noise Pollution (Regulation And Control) Rules, 2000 of Government of India The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.

⁴ Drinking water Specifications, IS-10500

			scale		
3.	Taste and Odour		Unobjectionable	Objectionable	-
4.	pH value	Electrometric Method.	6.5-8.5	>8.5	Digital pH Meter, HANNA – HI98127,
5.	Electrical Conductivity (EC) $\mu\text{S}/\text{cm}$	Electrometric Method.	$\leq 500 \mu\text{S}/\text{cm}$	1000 $\mu\text{S}/\text{cm}$	Digital TDS/EC Meter, HANNA – HI-96311
6.	Dissolved Oxygen (DO) mg/l	Winkler's Method Using Azide Modification (APHA 2005)	> 6 mg/l		Winkler's Method
7.	Total Suspended Solids (TSS) mg/l	Gravimetric (Filtration and Drying at 105°C) APHA 2005	<100 mg/L		Hot Air Oven, Digital Balance, Schimadzu-BL-220H
8.	Total Dissolved Solids (TDS) mg/l	Digital Meter Method. APHA 2005	$\leq 500 \text{ mg/l}$	2000 mg/l	BOD Incubator
9.	Turbidity (NTU)	Nephelo Turbidity Method. APHA 2005	1mg/l	10 mg/l	Nephelo Turbidity Meter, Systronics – 132
10.	Total Hardness (as CaCO_3) mg/l	EDTA Titrimetric APHA 2005	300 mg/l	600 mg/l	-
11.	Total Alkalinity (as CaCO_3) mg/l	Titrimetric (Methyl Orange) APHA 2005	200 mg/l	600 mg/l	-
12.	Calcium Hardness (Ca) mg/l	EDTA Titrimetric APHA 2005	75 mg/l	200 mg/l	-
13.	Magnesium Hardness (Mg) mg/l	Calculation from total Hardness and Calcium APHA 2005	30 mg/l	150 mg/l	-
D.	⁵Waste Water Quality (Treated Leachate (Effluent), Storm/ drain water, dry weather flow and Inland water)				
1.	Temp (in °C)	Digital/Mercury Thermometer Method. APHA 2005	Up to 65°C		Digital/Mercury Thermometer
2.	Color (Hazen units) Platinum cobalt scale	APHA 2005	5	25	-
3.	Odour	Objectionable/ Non-objectionable APHA 2005	Non-objectionable		-
4.	pH value	Electrometric Method. APHA 2005	5.5-9.2		Digital pH Meter, HANNA – HI98127,
5.	Electrical Conductivity (EC) $\mu\text{S}/\text{cm}$	Electrometric Method. APHA 2005	< 2000		Digital TDS/EC Meter, HANNA – HI-96311
6.	Dissolved Oxygen (DO) mg/l	Winkler's Method Using Azide Modification APHA 2005	> 6 mg/L		Winkler's Method (APHA 2005)
7.	Biochemical Oxygen Demand (BOD_5)mg/l	Five Days BOD method as per APHA 2005	30 mg/l		BOD Incubator
8.	Chemical Oxygen Demand (COD) m/l	Dichromate Method (APHA 2005)	250 mg/l		
9.	Total Dissolved Solids (TDS) mg/l	Digital Meter Method. APHA 2005	$\leq 500 \text{ mg/L}$	2100 mg/L	Digital TDS/EC Meter, HANNA – HI-96311
10.	Total Suspended Solids (TSS) mg/l	Gravimetric (Filtration and Drying at 105°C) APHA 2005	<100 mg/L		Hot Air Oven, Digital Balance, Schimadzu-BL-220H
11.	Turbidity (NTU)	Nephelo Turbidity	5 mg/L	10 mg/L	Nephelo Turbidity Meter,

⁵ General Standards for Discharge of Environmental Pollutants, Part-A Schedule-VI

⁶ The discharge of treated effluent shall not exceed 5°C above the receiving water temperature

		Method. APHA 2005			Systronics – 132
12.	Total Alkalinity (as CaCO_3) mg/l	Titrimetric (Methyl Orange) APHA 2005	200	600	
E	Surface Water Quality Standards (IS: 2296) (Class- A,B,C,D,E)				

Annotation: BOD= biochemical oxygen demand; DO= dissolved oxygen; EC= electrical conductivity; NO_2 = nitrogen dioxide; PM_{10} = particulate matter with particle size less than 10μ ; RSPM= respirable suspended particulate matter; SO_2 = Sulphur dioxide; TDS= total dissolved solids; TSS= total suspended solids.

6.1. Monitoring results and comparison with statutory requirements at National levels.

27. As the execution of the all sub-projects was over, no monitoring activity was carried out during the reporting period. The post construction phase monitoring of Jammu based sub-projects was reported and discussed in the last report.

7 ANY OTHER ENVIRONMENTAL ASPECTS, IMPACTS OBSERVED DURING IMPLEMENTATION WHICH WERE NOT COVERED EARLIER

37. No such aspect/impacts observed during this period.

8 DETAILS OF COMPLAINTS RECEIVED FROM PUBLIC AND ACTIONS TAKEN THEREOF TO RESOLVE

38. No such complaints received during this period.

9 FOLLOW-UP ACTIONS AND CONCLUSIONS

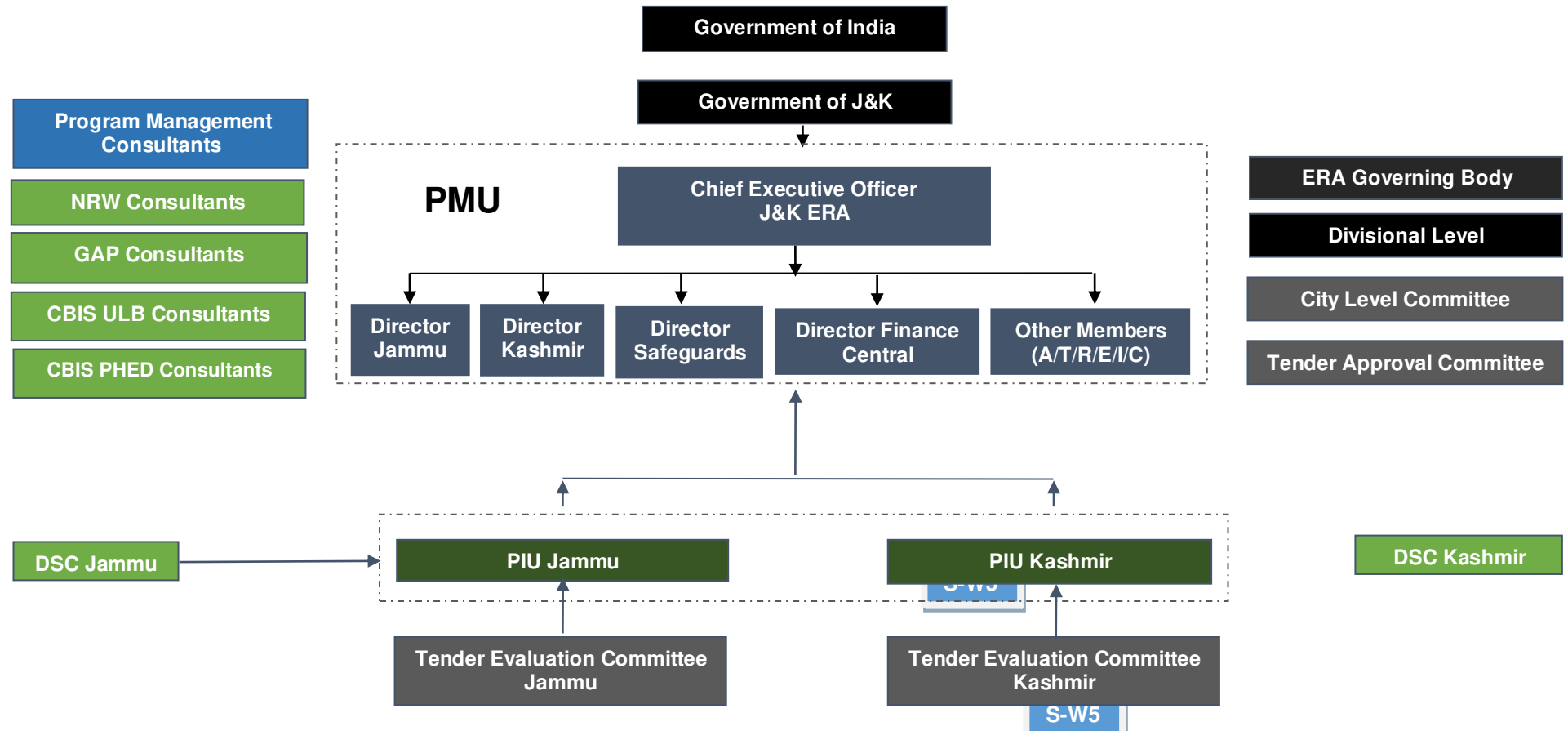
39. Environmental monitoring of the sub-projects was carried out regularly during the execution of the Sub-projects. Objective of monitoring was to ensure that environmental impacts are adequately mitigated and compliance with statutory regulations was made as required by laws, loan covenants, safeguard measures. The contractors were regularly guided and instructed to adhere to the provisions of EMP and contractual conditions.

Signed by:

Authorized signatory from implementing agency/ executing agency

(Naim Ahmad Naim)
Director Safeguards
J&K ERA

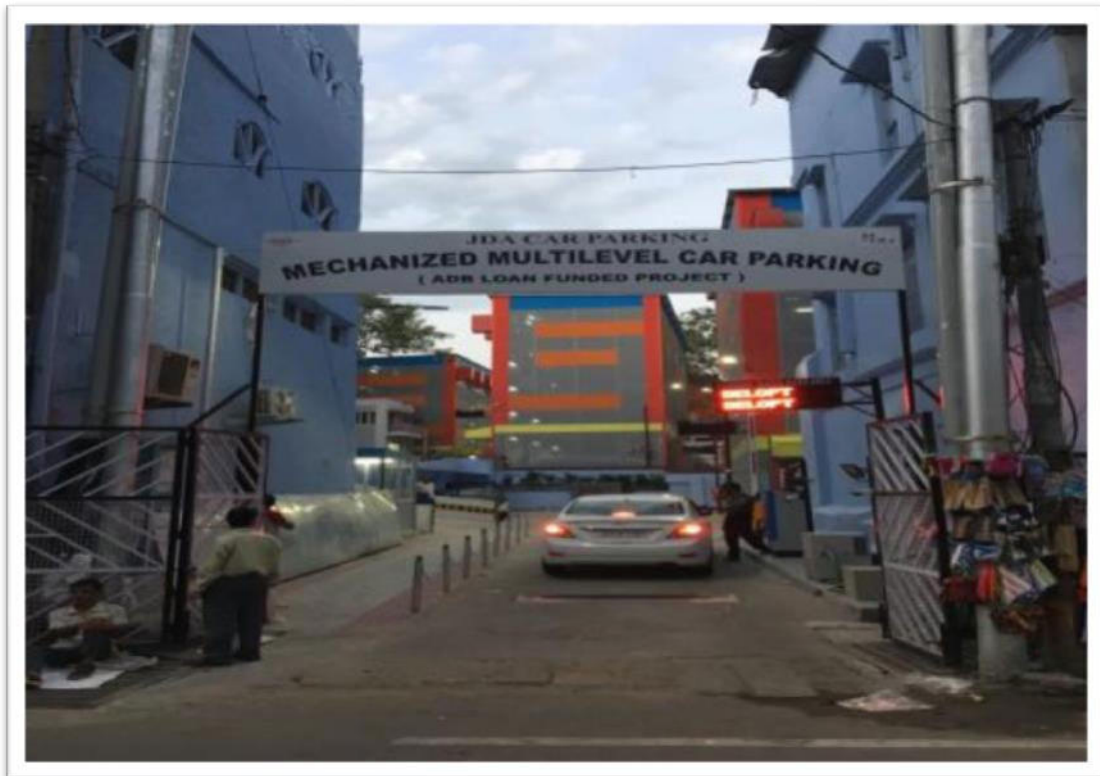
Appendix-1: Institutional Arrangement for the Project Implementation



ERA= Economic Reconstruction Agency; J&K=Jammu and Kashmir; PIU=Project Implementation Unit; PMU=Project Management Unit; A= Accounts; T= Technical; R= Resettlement; E= Environment; I= Institutional; C= Communications/Public Relation); DSC=Design and Supervision Consultant; NRW=Non-Revenue Water; GAP = Implementation of Gender Action Plan and Community Awareness Program; CBIS ULB =Capacity Building and Institutional Support for SMC and JMC; CBIS PHED =Capacity Building and Institutional Support for PHED

Appendix 2- Photographs of completed contract Packages

Multi-Level mechanized Parking at City Chowk, Jammu





**Sewerage network (Balance works of WW-01 & WW-02). Package No.
JKUSDIP/Jammu/WW-07**

Sewerage network completed and lane restored at



Vikas Nagar, Janipur



Talli Morh at Janipur



Bhagwati Nagar Road



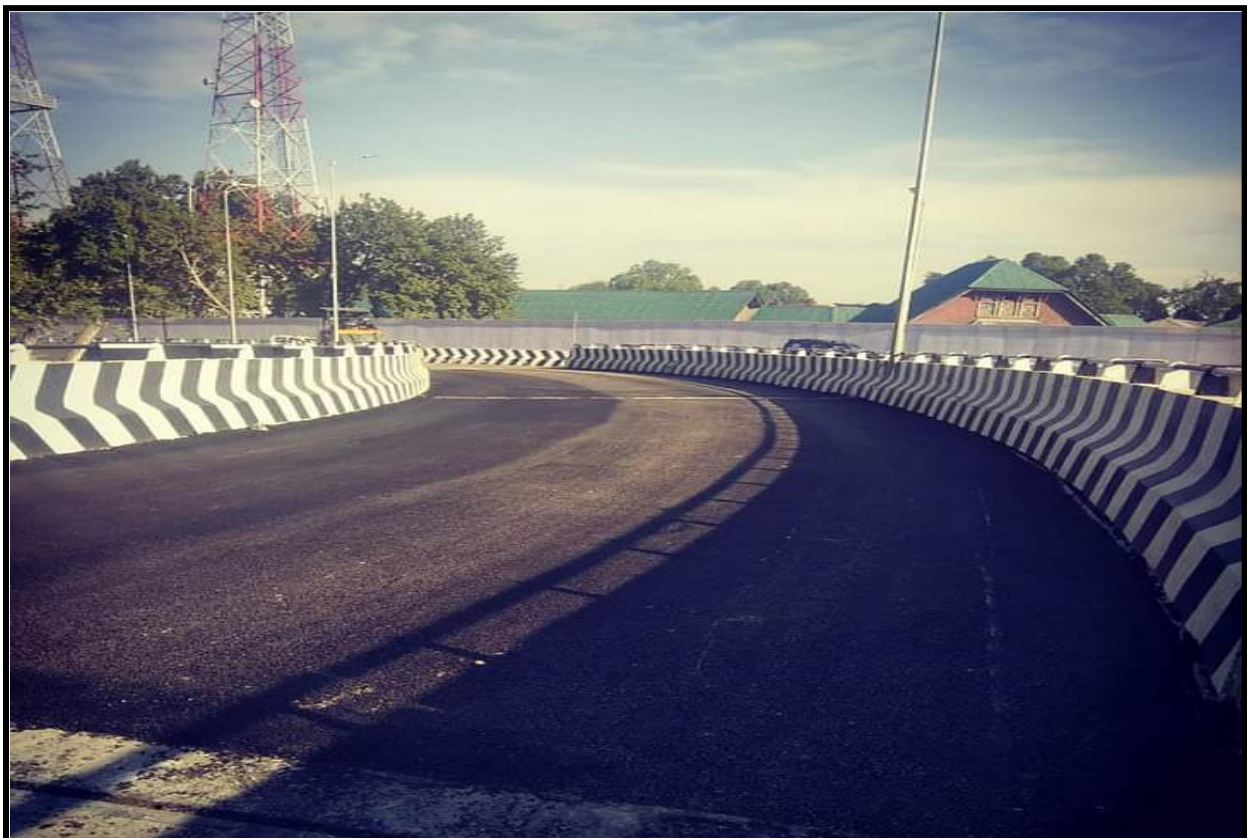
Shakti Nagar, Ranbir Collector

Construction of Surface water Drainage System for Rawalpura-Chanapora area Srinagar Kashmir





Construction of New Mehjoor Bridge at Jawahar Nagar and Grade Separator in Srinagar Kashmir



Mehjoor Bridget at Jawahar Nagar in Srinagar Kashmir



Providing and laying of Raw Water main from higher reaches of Doodhganga Nallah to Kralpora Treatment plant at Srinagar Kashmir





SAUW Semi-Environmental Monitoring Report Review – Information Log

Instructions: Provide information based on SEMR submitted by Project Management Unit (PMU). This log sheet will serve as record of the review findings, comments, and/or further actions. A copy of the SEMR log sheet should be (i) provided to PMU for their record; (ii) attached to the SEMR to be disclosed on ADB website; (iii) used as reference for review of next SEMRs; and (iv) inputted in the SARD Safeguards Compliance Tracking System.

Project title:	IND: Jammu and Kashmir Urban Sector Development Investment Program – Tranche 3		
Loan Number:	3132	Project Number:	41116-043
Overall Project and Objectives	<p>The proposed JKUSDIP will foster the economic growth in Jammu and Kashmir State. The long term project objectives are to contribute to the economic development of Jammu and Kashmir through enhanced and sustainable growth in the main urban areas with emphasis on promoting commerce and on improvement of livelihood for the poor.</p> <p>In Srinagar, there are three sub-projects:</p> <ul style="list-style-type: none"> (i) Construction of Surface water Drainage System for Rawalpura-Chanapora area; (ii) Providing and laying of Raw Water main from higher reaches of DoodhgangaNallah to Kralpora Treatment plant at Srinagar; and (iii) Construction of New Mehjoor Bridge at Jawahar Nagar (100% Completed) and Two Grade Separators in Srinagar city. <p>In Jammu, there are four sub-projects:</p> <ul style="list-style-type: none"> (i) Rehabilitation of Water Supply Network in Identified Areas within Zone 2, 3, 4 and 5 in Jammu City. Contract Package No: JKUSDIP/Jammu/WS 05; (ii) Providing, Laying, Jointing, Testing and commissioning of Sewerage Network in Bakshi Nagar, Shakti Nagar, Shiv Nagar and Janipur Areas in Division A Phase II at Jammu. Contract Package No: JKUSDIP/WW/07; (iii) Multi-Level mechanized Parking at City Chowk Jammu; and (iv) Upgradation of Water Supply Network for reduction of Non-Revenue Water (NRW) in Zone-1 in Old City, Jammu. <p>Note: Loan closing was on 30 May 2017 and financial closing on 8 February 2018. Per submitted SEMR, all subprojects now stand completed in Srinagar and Jammu City. implementation should still be reported to ADB until the Project Completion Report (PCR) is issued.</p>		
Approved Categorization	<input checked="" type="checkbox"/> Category A <input type="checkbox"/> Category B		<input type="checkbox"/> Category C <input type="checkbox"/> FI
Loan Effectivity Date:	29 January 2015		Frequency of Reporting Semi-annual
Project Officer	Momoko Tada		Project Analyst Luchi Holganza
Reporting Year	2019	Coverage Period	<input checked="" type="checkbox"/> 1 st SEMR of the year <input type="checkbox"/> 2 nd SEMR of the year
Date of PMU submission to ADB	08 June 2020		Date of ADB's feedback/comment to PMU

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
A. Project Safeguards Team (<i>check loan agreement and PAM requirements</i>)				
PMU ¹	Two (2) safeguards personnel (environment) are engaged (para 10) under the Director Safeguards: Yadullah Shah – Srinagar Charanjeet Singh – Jammu		None	
PIU ²	No available information	PAM does not mention any safeguard officer at the PIU level.	None	
Consultants	No PMC services engaged since Sept 2017 (fulltime support provided by DSC in Srinagar while no environmental staff for DSC in Jammu)		None	
Others (<i>e.g. auditor, external monitoring team, etc</i>)	None		None	
B. Overall Project and Subproject Description (<i>summarize number and type of packages</i>) ³				
Number of Packages with civil works (<i>check if consistent with latest procurement plan</i>)	7 (3 in Srinagar, 4 in Jammu)	Loan closing was 30 May 2017 and financial closing on 08 Feb 2018	Continue submission of SEMR until PCR is issued	
Number of DB/DBO packages and status (see footnote 3)	None		None	
Number of civil works packages and status (see footnote 3)	Srinagar: 3 packages – 100% completed Jammu: 4 packages – 100% completed.		Continue submission of SEMR until PCR is issued	
IEEs cleared for awarded packages?	Yes	IEEs for all awarded packages are disclosed on ADB website	None	
Safeguard documents disclosed on project website?	Para 18 indicates that electronic versions will be uploaded and made available on the PMU-JKERA official website after	Previous SEMR available via project website (jkera.org)	None	

¹ PMU – project management unit

² PIU – project implementation unit (For DWSNIP – project coordination units are PIUs)

³ DB/DBO – design-build or design, build, and operate or where contractor will finalize the detailed engineering design; civil works contract – enough details of the package is known and used as basis for bid/contract's Technical Specification

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
	ADB approval			
SEMR information on package-wise implementation phase (bidding, on-going, construction, completed, under operation, others)	All subprojects in Srinagar and Jammu City are completed.		None	
C. Status of compliance with statutory clearances (check IEE for the complete list, summarize the findings for each package – obtained/under application and if obtained, specify validity period)				
Environmental Clearance (EC)	Not required	Clear in the EARF and IEEs that EC is not required per 1994 EIA Notification	None	
Forest Clearance	None			
No Objection Certificate/Letter	None			
Site location clearance	None			
Permit/Consent to Construct (or equivalent)	None			
Permit/Consent to Operate (or equivalent)	Permits provided			
Road-cutting permit	None required			
Utilities shifting permit	None required			
Tree-cutting permit	Obtained			
Others (specify)				
D. Status of Compliance with loan covenants (verify items in SEMR with the project's loan agreement)				
EA to ensure the preparation, design, construction, implementation, operation and decommissioning of the project, and all subproject facilities comply with; (i) all applicable laws and regulations of the Borrower and the State relating to environment, health, safety; (ii) the Environmental Safeguards; (iii) EARF; and (iv) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Being complied with.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	None	
EA to ensure all bidding documents and contracts for Works contain provisions that require contractors to:- Comply with the measures and requirements relevant to the	The bidding documents and contract agreements for work are incorporated with the provisions set forth in the IEE and EMP and are being complied with.	All contracts have been issued.	None	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
contractor set forth in the IEE and EMP; and any corrective or preventive actions set out in a Safeguards Monitoring Report.				
EA to ensure all bidding documents and contracts for Works contain provisions that require contractors to:- make available a budget for all such environmental measures.	Environmental monitoring and mitigation costs allocated/incorporated in contract agreements.	All contracts have been issued.	None	
EA to ensure all bidding documents and contracts for Works contain provisions that require contractors to:- provide the EA with a written notice of any unanticipated environmental impacts that arise during construction, implementation or operation of the project that were not considered in the IEE and in the EMP.	Being complied with.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	Continue monitoring of compliance with this load covenant and report status in the next SEMR.	
EA to ensure all bidding documents and contracts for Works contain provisions that require contractors to:- adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction	The existing condition of roads and other infrastructure has been recorded in the form of photographs and video recording as well.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	None	
EA to ensure all bidding documents and contracts for Works contain provisions that require contractors to:- fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	All the areas that if disturbed by construction activities will be cleared and restored to pre-project condition.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	Continue monitoring of compliance with this load covenant and report status in the next SEMR.	
The Borrower shall ensure or cause	Semi-annual reports are	EA shall comply with this for	Continue monitoring of	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
the EA to submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission.	prepared and submitted to ADB as per the guidelines.	all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	compliance with this load covenant and report status in the next SEMR.	
The Borrower shall ensure or cause the EA to ensure that if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP or the IPP as applicable, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan	In case of any unanticipated environmental risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE and EMP as applicable that shall be immediately informed to ADB with detailed description of the event and proposed corrective action plan.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	Continue monitoring of compliance with this load covenant and report status in the next SEMR.	
The Borrower shall ensure or cause the EA to report any breach of compliance with the measures and requirements set forth in the EMP, the RP or the IPP promptly after becoming aware of the breach.	Breach will be reported to ADB immediately after becoming aware of it.	EA shall comply with this for all subprojects (partially or fully completed). Monitoring should continue until ADB issues PCR.	Continue monitoring of compliance with this load covenant and report status in the next SEMR.	
E. Contractors Compliance with Environmental Safeguards Requirements				
Appointment of Environment, Health and Safety (HSE) and/or nodal person	Environmental Safeguards Officer (ESO) / Safety Engineer appointees are identified in para 21 Table 3	IEEs state that Contractor has responsibility to appoint its own full-time environmental safeguards officer.	None	
Submission of site-specific EMPs	None required	This has not been required in the loan agreement, PAM or IEEs.	None	
Submission of SEMP implementation report (<i>specify in comments frequency – daily, weekly, monthly or quarterly basis</i>)	None required	This has not been required in the loan agreement, PAM or IEEs.	None	
Site verification by PMU, PIU, or consultants (<i>verification report should be attached to the SEMR</i>)	No separate site verification report attached to the SEMR.	Full verification report should be attached to support the results of the environmental monitoring activities and sampling done.	Include the following: <ul style="list-style-type: none"> Site verification by PMU, PIU or consultants <u>during the operation and maintenance phase</u> of completed 	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
			subprojects.	
SEMR compliance matrix on mitigation measures implementation (matrixes are based on approved SEMP's)	No detailed discussions provided in the SEMR. Indication of satisfactory compliance indicated in para 21, Table 3.	No detailed analysis of compliance and mitigation measures as presented in the EMPs. Para 21 Table 3 provides high level summary.	Provide the status of the implementation of EMP and health and safety measures <u>during the operation and maintenance phase</u> of completed subprojects.	
Other information			-	-
F. Environmental Monitoring based on EMP				
Rationale	No information provided			
Parameters to be monitored are commensurate to the impacts, mitigation measures, and project/subproject/package	No monitoring activity carried out as construction activities are completed within the reporting period.		.	
Sampling locations identified and appropriate	No monitoring activity carried out as construction activities are completed within the reporting period.		Continue monitoring until ADB issues PCR	
Sampling frequency identified and appropriate	No monitoring activity carried out as construction activities are completed within the reporting period.			
Sampling collection and analysis are in accordance with internationally-accepted practices	No monitoring activity carried out as construction activities are completed within the reporting period.	This is consistent with the provision in the IEEs and EMPs.	Continue monitoring of compliance with the method of analysis and samples collected. Include certificates of laboratory analyses.	
Standards and performance indicators are compliant with ADB SPS requirements ⁴ (provide justification if less stringent standards are used)	Standards are presented in the SEMR.	It is clear in the documents that the project will comply with the national standards.	Continue monitoring of compliance with the method of analysis and samples collected. Include certificates of laboratory analyses.	
G. Environmental monitoring results (narrative based on presented results)				
Visual inspection (<i>refer to EMP tables in the IEE where visual inspections are required to</i>	Not provided			

⁴ ADB SPS (Appendix 1 para 33) requires projects to apply pollution prevention and control technologies and practices consistent with international good practices as reflected in internationally recognized standards such as the World Bank Group's Environmental, Health and Safety Guidelines (<https://www.ifc.org/ehsguidelines>). These standards contain performance levels and measures that are normally acceptable and applicable to projects. When host country regulations differ from these levels and measures, the borrower/client will achieve whichever is more stringent. If less stringent levels or measures are appropriate in view of specific project circumstances, the borrower/client will provide full and detailed justification for any proposed alternatives that are consistent with the requirements presented ADB SPS.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
<i>determine if there are environmental impacts)</i>				
Air quality results	No monitoring activity carried out as construction activities are completed within the reporting period.		None	
Water quality results	No monitoring activity carried out as construction activities are completed within the reporting period.		None	
Noise level results	No monitoring activity carried out as construction activities are completed within the reporting period.		None	
Others				
H. Consultations and/or FGDs during the reporting period				
Number	None			
Reason/s for consultations/FGDs	No information provided			
Number of participants	No information provided			
Number of female participants	No information provided			
I. Trainings, Workshops, Seminars during the reporting period				
Number	None			
Topics	No information provided			
Number of participants	No information provided			
Number of female participants	No information provided			
J. Grievance Redress Mechanism				
GRM per PAM or IEE/EARF established	State has online grievance system "Awaz-e-Awam" in addition to corresponding through PMU office		None	
GRM notified via publication or notice boards	Complainants file complaints online via http://www.jkgrievance.in		None	
GRM members identified	No information provided		Per previous SEMR, this information is requested to be included in this SEMR. Please include details on GRM members to ensure that grievances can be addressed as described.	
GRM members have capacity to address project-related complaints <i>(detailed information on capacity development of GRM members such as trainings, workshops, briefings,</i>	No information provided		Per previous SEMR, this information is requested to be included in this SEMR. Please include details on GRM members to ensure	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU
<i>etc should be attached in the SEMR)</i>			that grievances can be addressed as described.	
Number of meetings conducted (attach minutes of the meeting)	No information provided		Record meetings conducted on GRM and minutes of the meeting, if any	
K. Complaints Received (detailed information on nature of complaints, summary and status of resolution)				
Number of complaints	None documented			
Nature (provide summary of issues/concerns)	NA			
Status of resolution	NA			
L. Summary of Issues and Corrective Actions				
Major issues/concerns (specify)	None			
Corrective Action to be implemented, timeline, responsible person/s, and budget are clearly specified				
M. Status of Corrective Action Plan from Previous Reporting Period (list all and provide status)				
N. Appendixes				
Photos included?	Yes – Appendix 1 includes project photographs during execution of the works	Include proper captions in the photos and date when the photos were taken	Suggestion: Provide the date on when the photos were taken for proper documentation.	Noted
Summary of consultations included?	No			Noted
Copies of environmental clearances and permits included?	Yes			
Site EMPs (attach sample?)	Not required			
Checklists?	No			
Others				
O. Review and clearance for disclosure				
Reference				
Status/Remarks	1. Report cleared for disclosure in the ADB website			