Semi-Annual Environmental Monitoring Report

Project Number: 41116-043

Period: January 2018 to June 2018 Submission Date: 20 November 2018

IND: Jammu and Kashmir Urban Sector Development Investment Program – Tranche 3

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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 three (3) subprojects are under execution:
 - i. Construction of Surface water Drainage System for Rawalpora-Chanapora area (Overall progress of the contract is about 96.70%)
 - ii. Providing and laying of Raw Water main from higher reaches of DoodhgangaNallah to Kralpora Treatment plant at Srinagar(Overall progress of the contract is about 80.50%)
 - 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 55.00%)
- 9. In **Jammu**, following four (4) sub-projects are completed or under execution
 - 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 96%)



- 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 99%).
- 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:

10. 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 passageways 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



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

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

S #.	Name of Sub-project	Statutory Environmental Requirements	Status of Compliance	Actions Required
Srina	agar			
1.	Construction of Surface water drainage system for Rawalpora-Chanapora area (Package: JKUSDIP Srinagar/SWD/02).	Environmental clearance under EIA Notification, 2006. Approval for tree cutting	Not applicable Not required	Contractor has applied for the renewal of Consent to Operate Stone Crusher and same is under Process with
		Consent to establish/operate for stone crusher.	March 2017 (Fresh renewed consents of Stone crusher plant is in process of submission)	
		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.	Obtained and submitted by contractor	
2.	Providing and Laying of Raw water	Environmental clearance under	Not applicable	



	main from higher reaches of Doodhganga Stream to Kralpora Water Treatment Plant. (Package: JKUSDIP Srinagar/WS/02).	EIA Notification (MoEF), 2006. Approval for tree cutting Consent to establish/ operate Stone Crusher Plant from SPCB	Not required Contractor has been procuring Stone Aggregate material from outsourced agency. Renewed consent to operate stone crusher plant has been submitted by the contractor under consent no. 304 of	
		Consent to establish/ operate DG Set from SPCB (If required). PUC certificates for contractor's vehicles.	2017 and is valid up to March 2018. Not required during the present period Obtained and Submitted	
3.	Construction of New Mehjoor Bridge at Jawahar Nagar and Two Grade Separators in Srinagar city	Environmental clearance under EIA Notification, 2006. Approval for tree cutting	NOC (DS/Plan/2014-15/537-38) dated: 28.5.2015 obtained from Dept. of Sericulture for cutting 11 trees. All trees (11 no.) of Mulberry trees were and stand cleared.	Mahiaar bridga Subaraiaat
		Consent to establish/operate for stone crusher. Consent to establish/ operate Batching Plant	Stone Crusher Plant Fresh consents submitted having consent no. 601 of 2016 dated 22/09/2016 valid upto May 2019 Batching Plant Consent to Operate: Consent No. of 138 RD/C of 2015 Dated: 28/07/2015 Valid for 2 years	Mehjoor bridge Subproject Completed. Grade Separator is in progress.



		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. Fresh consents submitted having consent no 956 of 2017 Dated 07/01/2017 valid till 07/01/2018
		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.
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor.
	Jammu.		
4	Rehabilitation of Water Supply Network in Identified Areas within	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required
	Zone 2, 3, 4 and 5 in Jammu City. Package No: JKUSDIP/Jammu/	Consent to establish and operate stone crusher.	Not required yet
	WS-05	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	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required.
	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.		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.	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor	
6.	Mechanized Semi-Automatic Parking facility at Super Bazaar City	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required	Subproject Completed
	Chowk Jammu. Package No.: JKUSDIP/Jammu /UT 02	Consent to establish and operate stone crusher	Not Required	
		Consent to establish and operate of concrete batching plant	Contractor has not established his own batching plant, but is obtaining material from the approved plant. 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.	
		Consent of DG Set	Contractor has already applied for the consents and case in under process.	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor.	
7.	Upgradation of water supply network for reduction of Non-	Approval for tree cutting	Cutting of Forest tree or any other schedule tree not required	Subproject Completed
	revenue water (NRW) in Zone 1 Old city Jammu	Consent to establish and operate stone crusher	Not Required	
		PUC certificates for contractor's vehicles.	Obtained and submitted by the Contractor.	



3. ComplianceStatus withthe Environmental Covenants as Stipulated In the Loan Agreement

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

	Loan Covenants	Compliance status
	The Borrower shall ensure, or cause the EA to ens	sure 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 preproject condition.
	Submitsemi-annual Safeguards Monitoring to ADBand 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 oroperation 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.

17. **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	Status of EMP Implementation	Actions Proposed/ Additional Corrective
		(Yes/No)	(Yes/No)	(Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfaction)	Measures Required
1.	Construction of Storm water drainage system for Rawalpora-Chanapora area (Package: JKUSDIP Srinagar/SWD/02).	Yes	Yes	Satisfactory	
2.	Providing and Laying of Raw water main from higher reaches of DoodhgangaNallah to Kralpora Water Treatment Plant. (Package: JKUSDIP Srinagar/ WS/02).	Yes	Yes	Satisfactory	
3.	Construction of New Mehjoor Bridge at Jawahar Nagar and Two Grade Separators in Srinagar city	Yes	Yes	Satisfactory	Mehjoor Project Completed. Grade Separator subproject is in progress.
			Jammu.		
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	Satisfactory	



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	Satisfactory	
6.	Mechanized Semi-Automatic Parking facility at Super Bazaar City Chowk Jammu. Package No.: JKUSDIP/Jammu/UT 02	Yes	Yes	Satisfactory	Subproject Completed.
7.	Upgradation of water supply network for reduction of Non- revenue water (NRW) in Zone 1 Old city Jammu	Yes	Yes	Satisfactory	Subproject Completed.



- 18. Details of amount withheld from the IPC's for Non-compliance of various components of EMP, in accordance with ERA Circular No.: ERA/CEO/1038/ADM/9629-42, Dated: 10/01/2013, during the period January 2018 June 2018.
- 19. **Table-4:** Updated status of amount withheld from the IPC's for Non-compliance of EMP, Srinagar

S. No.	Contract Package	Bill No.	Total Recommended Deduction (In Rs)
Srinaga	ır 💮		
	No amount withheld from the IPC's during this period in Srinagar subprojects.	Nil	Nil
Jammu			
2	No amount withheld from the IPC's during this period in Jammu subprojects.	Nil	Nil

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

- 20. Construction works of 3 subprojects are under execution in Srinagar and 2 subprojects in Jammu. 2 subproject stands completed in Jammu. Monitoring schedules and reporting formats already stands issued to each contractor for compliance and implementation of EMP of each site. The contracting firms of all subprojects have nominated/ mobilized Environmental Safety Officers and are submitting site environmental reports at the end of each month.
- 21. Site visit/ inspections are being carried out on regular basis to assess the EMP implementation of Tranche-3 subprojects under execution.
- 22. Public consultation was conducted for the subprojects in both under execution projects. During consultation with different stakeholders, issue of "dust generation" was addressed. They have also suggested measures apart from regular water sprinkling by way of water tankers like "frequent mopping and removal of the left-over soil produced from excavation activities" must be implemented. Since, ongoing works have a limited construction period and hence have only temporary and short-term impact within the impact corridor. Contracting firms are being instructed for strict follow-up of mitigation measures as devised in EMP of Contract Agreement.
- 23. Public consultation is a regular process throughout the construction and operation phases of the subprojects to solve any issues arising out of the ongoing works.
- 24. The safeguards staff conducts frequent site visits to monitor the implementation of safeguard measures on sites and report to concerned official about issues/problems related to environmental non-compliance. Necessary directions in the form of corrective action



measures, in case of non-compliances, are being issued to the contractors on the site and through letters about the procedures to resolve problems/issues or requirements.

6. MONITORING OF ENVIRONMENTAL RECEPTORS/ ATTRIBUTES

1.7. Monitoring basis

25. Air quality, water quality and noise levels are required to be monitored to check if any adverse impact is being caused by the construction activities. The monitoring of these variables is to be carried out in construction areas at sensitive locations within 100m impact zone of the subproject. The monitoring of environmental variables is to be carried out as per the agreed Environmental Monitoring Plan.

1.8. Type of environmental receptor/attribute monitored(for each type)

26. The environmental attributes monitored include the air, noise and water quality parameters at the construction sites in sub-project corridors. The air quality parameters monitored include RSPM (PM₁₀), RSPM (PM_{2.5}), SO₂ and NO₂. The water quality parameters include 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 (NTU), total alkalinity, total hardness, calcium hardness and magnesium hardness. In case of noise quality,the day time dBL_{eq}values are monitored.

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

27. The following standard methods and equipment's are being used for monitoring.

28. **Table-5:** List of Assessment Methodology, Acceptable Standards and equipment's adopted.

S #.	Parameters	Assessment Methodology	¹ Acceptable Standards	Cause for rejection	Equipment's in Use
Α.	Ambient A	ir Quality (2NAAQ Stand	dards, 2009)- T	ime weighte	ed average
1.	RSPM– particulate matter PM ₁₀	GravimetricHigh Volume Sampler method (attached with cyclone).	100 μg/m³ 60 μg/m³		Respirable Dust Sampler, Envirotech -APM 460 BL Digital Balance, Schimadzu – BL-220H
2	Fine particulate matter PM _{2.5} ,	Gravimetric method.	60 μg/m³ 40 μg/m³		Ambient Fine Dust Sampler, Instrumex.

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

² National Ambient Air Quality Standards (NAAQS)



3.	SO ₂	Modified West and Gaeke Method.	80 μg/m³			
4.	NO ₂	Modified Jacob &HochheiserMethod	80 μg/m³		High Volume Air Sampler, Envirotech – APM 460BL. Thermo-electrically cooled gaseous sampling attachment, Envirotech – APM 411TEDigital Spectrophotometer, EI-305.	
B.	³ Ambient Noi	se Level				
1.	Residential Area	Direct Reading in Decibel Sound Level Meter.	55dB(A) L _{eq} (Day time)		Digital Sound Level Meter, AZ-8928	
2.	Commercia I Area	Direct Reading in Decibel Sound Level Meter.	65 dB(A) L _{eq} (Day time))		Digital Sound Level Meter, AZ-8928	
C.	C. ⁴ Ambient Water Quality (For Drinking / Ground Water)					
1.	Temp (in ºC)	Digital/Mercury Thermometer Method.	>20 ^o C		Digital/Mercury Thermometer	
2.	Color (Hazen units)	Hazen Method	5 Platinum cobalt scale	25	•	
<i>3.</i>	Taste and Odour		Unobjectiona ble	Objection able	-	
4.	pH value	Electrometric Method.	6.5-8.5	>8.5	Digital pH Meter, HANNA – HI98127,	
<i>5</i> .	Electrical Conductivity (EC) μs/cm	Electrometric Method.	≤ 500 µs/cm	1000 μs/cm	Digital TDS/EC Meter, HANNA – HI-96311	
6.	Dissolved Oxygen (DO) mg/l	Winkler's Method Using AzideModificatio n	> 6 mg/l		Winkler's Method	
7.	Total Suspended Solids (TSS) mg/l	Gravimetric (Filtration and Drying at 105°C)	<120 mg/L		Hot Air Oven, Digital Balance, Schimadzu-BL-220H	
8.	Total Dissolved Solids (TDS)	Digital Meter Method.	≤ 500 mg/l	2000 mg/	BOD Incubator	

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



10		ma/l				
(NTU)	0	mg/l	Manhala	1 m a /l	10 ma/l	Nonholo Turbidity
Hardness (as CaCO ₃) mg/l		(NTU)	Turbidity Method.	_	J	
(as CaCo ₃) (Methyl Orange) mg/l	10.	Hardness (as		300 mg/l	600 mg/l	-
Hardness (Ca) mg/l		(as CaCO₃) mg/l		200 mg/l	600 mg/l	-
Hardness total Hardness and Calcium		Hardness (Ca) mg/l	Titrimetric		200 mg/l	-
1. Temp (in °C) Digital/Mercury Thermometer Method. Shall notexceed S°Cabove thereceetivingwater temperature Digital/Mercury Thermometer 2. Color (Hazen units) Platinum cobalt scale - 5 25 - 3. Odour Objectionable/ Non- objectionable objectionable Non- objectionable objectionable - Digital pH Meter, HANNA – H198127, Digital TDS/EC Meter, HANNA – H198127, Digital TDS/EC Meter, HANNA – H196311 5. Electrical Conductivity (EC) μs/cm Electrometric Method. < 2000 Digital TDS/EC Meter, HANNA – H196311	13.	Hardness	total Hardness	30 mg/l	150 mg/l	-
1. Temp (in °C) Digital/Mercury Thermometer Method. Shall notexceed S°Cabove thereceetivingwater temperature Digital/Mercury Thermometer 2. Color (Hazen units) Platinum cobalt scale - 5 25 - 3. Odour Objectionable/ Non- objectionable objectionable Non- objectionable objectionable - Digital pH Meter, HANNA – H198127, Digital TDS/EC Meter, HANNA – H198127, Digital TDS/EC Meter, HANNA – H196311 5. Electrical Conductivity (EC) μs/cm Electrometric Method. < 2000 Digital TDS/EC Meter, HANNA – H196311	D.	5Waste Water C	Quality (Storm/ drai	n water, dry wea	ther flow)	
Units Platinum cobalt scale Objectionable Non-objectionable Non-objectionable Odour Objectionable Objectionab		Temp	Digital/Mercury Thermometer	Shall notexceed 5°Cabove thereceivingwater		
Non-objectionable objectionable 4. pH value Electrometric Method. 5.5-9.2 Digital pH Meter, HANNA – HI98127, Digital TDS/EC Meter, HANNA – HI-96311 5. Electrical Conductivity (EC) μs/cm Electrometric Method. < 2000		<i>units)</i> Platinum	-		25	-
5. Electrical Conductivity (EC) μs/cm Electrometric Method. < 2000	3.	Odour	Non-	_		•
Conductivity (EC) μs/cm Method. HANNA – HI-96311 6. Dissolved Oxygen (DO) mg/l Winkler's Method Using Azide Modification Winkler's Method 7. Biochemical Oxygen as per APHA Demand (BOD₅) mg/l Five Days BOD as per APHA 2005 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. ≤500 mg/L 2100 mg/L Digital TDS/EC Meter, HANNA – HI-96311	4.	pH value		5.5-9.2		
Oxygen (DO) mg/l Method Using Azide Modification 7. Biochemical Oxygen as per APHA Demand (BOD₅) mg/l Five Days BOD as per APHA 2005 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. ≤500 mg/L 2100 mg/L Digital TDS/EC Meter, HANNA – HI-96311	5.	Conductivity		< 2000		
Oxygen Demand Demand (BOD₅) mg/l as per APHA 2005 8. Chemical Oxygen Demand (COD) m/l Dichromate Method (APHA 2005) 9. Total Dissolved Solids (TDS) mg/l Digital Meter Method. Solids (TDS)	6.	Oxygen (DO) mg/l	Method Using Azide	> 6 mg/L		Winkler's Method
Oxygen Demand (COD) m/l Method (APHA 2005) 9. Total Dissolved Solids (TDS) mg/l Digital Meter Method. ≤500 mg/L 2100 mg/L Digital TDS/EC Meter, HANNA – HI-96311		Oxygen Demand (BOD₅) mg/l	as per APHA	30 mg/l		BOD Incubator
Dissolved Method. HANNA – HI-96311 Solids (TDS) mg/l		Oxygen Demand	Method (APHA	250 mg/l		
10. Total Gravimetric <120 mg/L Hot Air Oven,	9.	Dissolved Solids (TDS)		≤500 mg/L	2100 mg/L	
	10.	Total	Gravimetric	<120 mg/L		Hot Air Oven,

⁵ Standards for Discharge of Environmental Pollutants, IS-10500



	Suspended Solids (TSS) mg/l	(Filtration and Drying at 105°C)			Digital Balance, Schimadzu-BL-220H
11.	Turbidity (NTU)	Nephelo Turbidity Method.	5 mg/L	10 mg/L	Nephelo Turbidity Meter, Systronics – 132
12.	Total Alkalinity (as CaCO₃) mg/l	Titrimetric (Methyl Orange)	200	600	

Annotation:BOD= biochemical oxygen demand; DO= dissolved oxygen; EC= electrical conductivity; NO₂= nitrogen dioxide; PM₁₀= particulate matter with particle size less than 10µ; RSPM= respirable suspended particulate matter; SO₂=Sulphur dioxide; TDS= total dissolved solids; TSS= total suspended solids.

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

29. The environmental monitoring for air quality, water quality and noise levels for subprojects under Tranche-3 in Srinagar was conducted during Q2 period of 2018. However, due to the discontinuation of PMC services in September 2017, regular functioning of Environmental Monitoring of Lab and thereby scheduled monitoring was hindered in Jammu. The previous staff of the Lab is being mobilized for some time to conduct the monitoring. The data so generated will be send ADB.

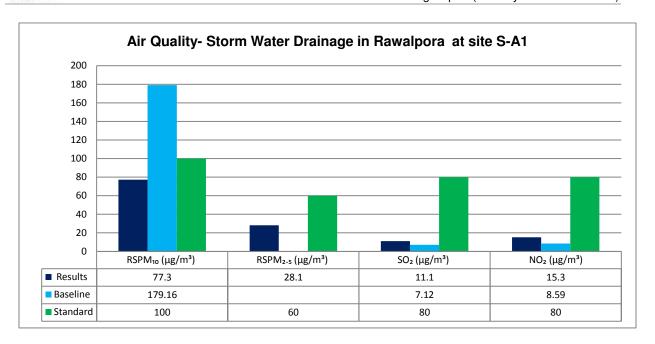
A. Air Quality

30. Table-6: Construction of Storm Water Drainage in Rawalpora area Chanapora Bridge, Srinagar

	Srinagar Subprojects											
Ambie	Ambient Air Quality- Construction of Storm Water Drainage in Rawalpora Area											
Site Code	Quarter	Month of Sampling	Sampling Site/ Location	Site Type	RSPM ₁₀ $(\mu g/m^3)$	RSPM _{2.5} (μg/m³)	SO_2 (µg/m ³)	NO_2 (µg/m ³)				
		with date				e Limits/	5 /					
					100	60	80	80				
S-A1	Baseline monitoring	January 30-01-2013	Rawalpora Area	Residential Area	179.16	-	7.12	8.59				
3-A1	Q2	28 -05-2018	Rawalpora near construction area	Residential area	77.3	28.1	11.1	15.3				

- 31. Q2 monitoring of Air Quality was conducted at sampling location S-A1 in Rawalpora area.Air quality monitoring results showPM₁₀&PM_{2.5}parameterswell within the permissible limits as specified in NAAQ standards. Similarly, results of oxides of nitrogen and sulphur are within the permissible limits.
- 32. Comparative analysis of site S-A1 with NAAQ standards and baseline monitoring is illustrated in Figure 1 below:



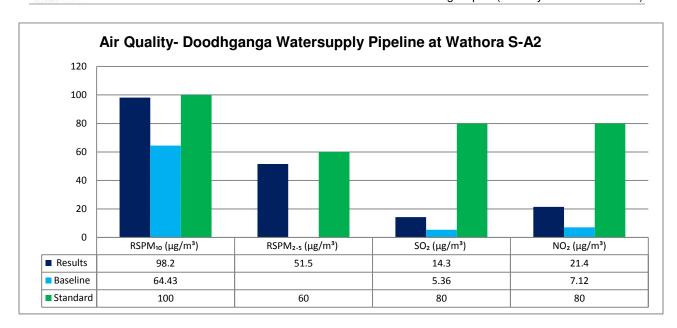


33. Table- 7: Construction & Laying of WS Pipeline from Doodhganga to Kralpora WTP.

		Subprojects	·					
	Ambient A	Air Quality: L	aying of W	S Pipeline fr	om Doodh	ganga to I	Kralpora V	VTP
Site Code	Quarter	Month of Sampling	Sampling Site/	Site Type	RSPM ₁₀ (μg/m ³)	RSPM _{2.5} $(\mu g/m^3)$	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
		with date	Location			Permissib Standards	ole Limits/ S	
					100		80	80
	Baseline Monitoring (Pre- Construction)	December 23/12/2014	Near Nowhara bridge at Source	Residential area	64.43	-	5.36	7.12
S-A2	Q2	30-06-2018	Near Wathora	Residential area	98.2	51.5	14.3	21.4

- 34. Q2 monitoring of Air Quality was conducted at sampling location S-A1 near Wathora. From the air quality monitoring results it is revealed that all the ambient air quality parameters (SO2, NO2 and PM 10 & 2.5) were well within the permissible limits.
- 35. Comparative analysis of site S-A2 with NAAQ standards and baseline monitoring is illustrated in Figure 2below:



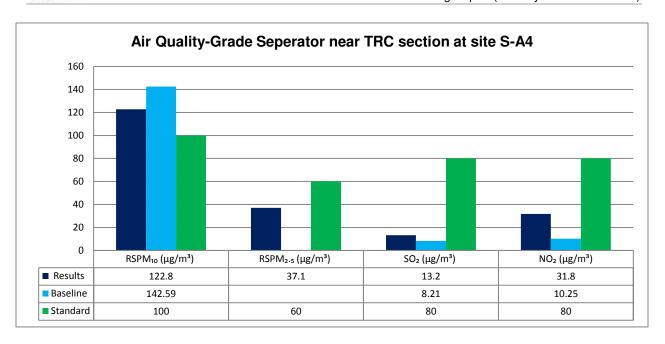


36. Table-8: Construction of New Mehjoor Bridge and Grade Separator in Srinagar City.

Srinaç	gar Subproje	ects						
Ambie	ent Air Quali	ty: Construc	tion of New	Mehjoor Brid	ge and Gra	ade Separa	ators.	
Site Code	Quarter	Month of Sampling	Sampling Site/	Site Type	RSPM ₁₀ (μg/m ³)	RSPM _{2.5} (μg/m ³)	SO ₂ (μg/m ³)	NO ₂ (μg/m ³)
		with date	Location		Perm	nissible Lim	its/ Standa	ards
					100	60	80	80
	Baseline Monitoring	July 2013	Near Bridge Site	Residential area	87.23	-	4.22	5.79
S-A3	Q1 & Q2	*	Near Mehjoor Bridge site	Residential area				
	Baseline Monitoring	September 2013	Near Emporium Side/ TRC	Commercial Area	142.59	-	8.21	10.25
S-A4	Q2	24 -04-2018	Near Emporium Side	Commercial Area	122.8	37.1	13.2	31.8

- 37. From the air quality monitoring results it is revealed that the oxide pollutants (SO2 & NO2) and PM (2.5) are within the permissible limits, however the PM (10) show slightly higher value than the permissible limit resulting mainly due to the construction related activities at the site and partly due to the vehicular movement. At the site material transportation, shutteringetc were the major activities in progress. The site witnessed moderate traffic movement throughout the day.
- 38. Comparative analysis of site S-A4 with NAAQ standards and baseline monitoring is illustrated in Figure 3 below:





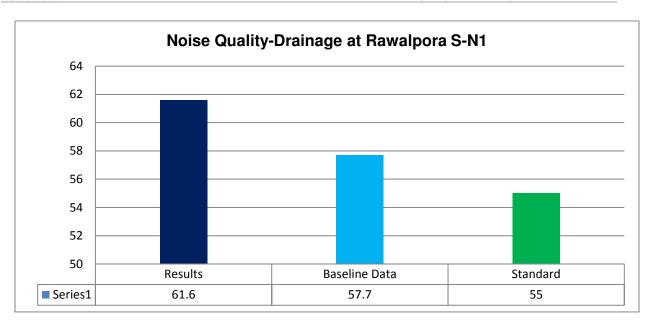
B. Noise Quality

- 38. The measured noise quality data at various locations in Srinagar and Jammu is given below:
- 39. Table 9: Construction of Storm Water Drainage System in Rawalpora Area to Chanapora Bridge Srinagar City

Srinaga	r Subprojects					
Site Code	Quarter	Month of Sampling with date	Sampling Site/ Location	Site Type	Day Time Noise Levels dB (A) Leq	Day Time Noise Quality Standards dB (A) L _{eq}
Constru	ction of Storm V	Vater Drainage	System in Rawai	lpora Area to Chana	apora Bridge Sri	nagar City
S-N1	Baseline	January 08-01-2015	Near Rawalpora Area	Residential	57.7	55
	Q2	28-05-2018	Rawalpora Area	Residential	61.6	55

- 40. Noise quality monitoring shows increase at site S-N1 and just overlapping the NAAQS as well baseline characteristic's, which is mainly attributed to frequent traffic movement and due to the ongoing construction activity in main road which can't be ruled out. However, contractor was instructed for proper maintenance of vehicles and application of mitigation measures so to avoid noise pollution. Comparative analysis of S-N1 is illustrated in Figure 9 below;
- 41. Comparative analysis of site S-N1 with NAAQ standards and baseline monitoring is illustrated in Figure 4 below:



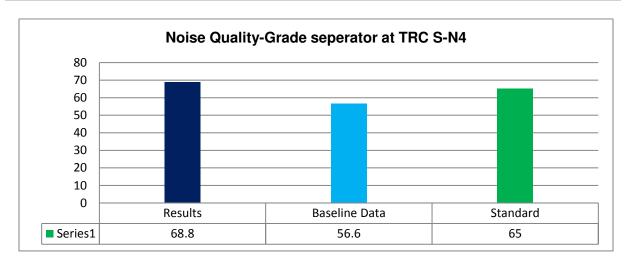


42. Table-10: Construction of New Mehjoor Bridge and 2 Grade Separators in Srinagar City.

Srinaga	r Subprojects		. 3		•	<u> </u>
Site Code	Quarter	Month of Sampling with date	Sampling Site/ Location	Site Type	Day Time Noise Levels dB (A) Leq	Day Time Noise Quality Standards dB (A) L _{eq}
Constru	uction of New N	<i>Nehjoor Bridge</i>	and 2 Grade	Separators in Srir	nagar City	
S-N3	Baseline Monitoring	July 06/07/2013	Near New Mehjoor Bridge	Residential area	56.6	55
3-IN3			Near New Mehjoor Bridge	Residential		
	Baseline Monitoring	July 06/07/2013	Near Emporium Side, TRC	Commercial area	56.6	65
S-N4	Q2	24 -04-2018	Near Emporium Side, TRC	Commercial Area	68.8	65

- 43. From the noise quality monitoring it is revealed that the noise Leq observed is higher than the permissible limit which is mostly due to ongoing construction related activities which involves heavy machinery and partly due to the traffic movement and other local activities going on simultaneously at the site.
- 44. Comparative analysis of site S-N4 with NAAQ standards and baseline monitoring is illustrated in Figure 5 below:

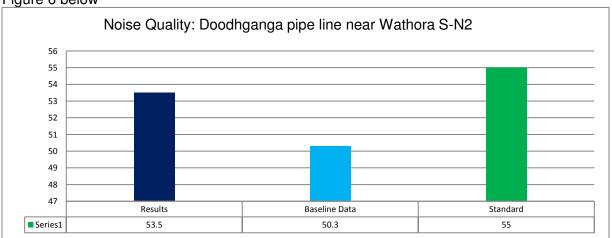




45. Table 11-: Construction & Laying of WS Pipeline from Doodhganga to Kralpora WTP.

Srinaga	r Subprojects	, ,		e nom Boounga	3	
Site Code	Quarter	Month of Sampling with date	Sampling Site/ Location	Site Type	Day Time Noise Levels dB (A) Leq	Day Time Noise Quality Standards dB (A) L _{eq}
Constru	uction of New N	Mehjoor Bridge	and 2 Grade	Separators in Srir	nagar City	
S-N2	Baseline Monitoring	July 06/07/2013	Near Nowhara bridge at Source	Residential area	50.3	55
	Q2	30-06-2018	Near Wathora	Residential area	53.5	55

- 46. From the noise quality monitoring it is revealed that the noise Leq observed is within the permissible limit.
- 47. Comparative analysis of site S-N2 with NAAQ standards and baseline monitoring is illustrated in Figure 6 below





C.Water Quality

48. The results of water quality analysis conducted at sites in Srinagar are presented below:

49. Table-12: Construction of Construction of Storm Water Drainage system for Rawalpora-Channapora

Site	Quarter	Month of	Sampling Site	Location	Temp ^º C	рН	E.C μs/cm	D.O mg/l	B.O.D mg/l	TDS mg/l	TSS mg/l	Turbidity NTU	T.A	т.н	C. H	M.H
Code		Sampling						Permissible Limits								
		with date			-	6.5- 8.5	≤500	>6	5	≤500	≤120	5-10	200 - 600	300 - 600	75- 200	30- 75
	Baseline (DoodhgangaNallah)	Jan-Apr 2013	DoodhgangaNallah near Channpora	Upstream	10.8	7	212	8.0	5.2	108	100	17.2	were	not	4 paran part o	f the
	(Boodinganganalari) 2010	Bridge Downstream	Bridge	Bridge Downstream	10.9	7	223	7.6	4.8	100	104	21.4		e neters		
S-W1	Baseline (Pre- Construction)	June 22.06.2015	Doodhganga Spill Channel near	Upstream	13	7.8	140	8.8	15	70	220	7	60	88	55.4	8
	·		Rawalpora Area	Downstream	13	7.7	138	8.4	16	68	230	7.3	56	80	51.2	7
	Q2 (April-June 2018)	May 28-05-	Doodhganga Flood spill channel near	Upstream	20	7.7	470	8.5	15	235	180	8.2	172	270	192	19
		2018	Medina Enclave	Downstream	22	7.6	475	8.0	17	238	190	8.4	179	276	195	20

Annotations: TA- Total Alkalinity; TH- Total Hardness; CH- Calcium Hardness; MH-Magnesium Hardness

50. Water quality sampling was conducted in May 2018 for Doodhganga flood spill channel which is flowing through the Rawalpora area and is in proximity of ongoing works of Storm Water Drainage. The flow regime of the flood spill channel was moderate. Algal (Chlorophyta and Bacillariophyta type) growth was also observed along with suspended matter was present in good quantity. DO of the spill channel was found in optimum amount due to the availability of direct sunlight, presence of algal growth and flow regime. TSS and BOD parameter of the Doodhganga Flood Spill channel is high and due to the presence of high organic load. Conductivity and TDS values were found in normal range. Turbidity was observed within the range. Alkalinity and Hardness were on lower sides. Physio-chemical characteristics of the most parameters are within the permissible levels and in line with baseline characteristics. The higher BOD and TSS values is mainly attributed to number of storm and waste water disposal (both point and non-point source) into spill channel. Comparative analysis of the DoodhgangaFloodspill Channel is illustrated in Figure 10 below;



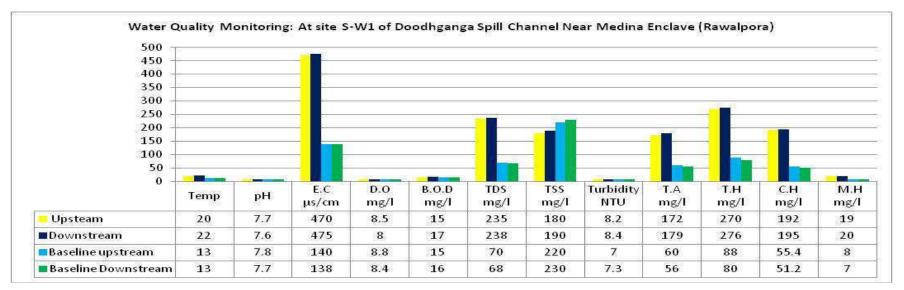


Figure 7: Water quality characteristics of Doodhganga Flood Spill Channel during Q2 period in May 2018 near Medina Enclave Rawalpora S-W1, Srinagar

51. Table-13: Laying of Raw WS Pipeline from higher reaches of Doodhganga to WTP Kralpora Srinagar

Site	Quarter	Month of	Sampling Site	Location	Temp ^º C	рН	E.C µs/cm	D.O mg/l	B.O.D mg/l	TDS mg/l	TSS mg/l	Turbidity NTU	T.A	T.H	C. H	M.H
Code		Sampling				Permissible Limits										
		with date			-	6.5- 8.5	≤500	>6	5	≤500	≤120	5-10	200 - 600	300 - 600	75- 200	30-75
	Baseline (Pre-	June	Doodhganga Stream near	Upstream	10.4	7.5	69	9.2	1.2	34	240	12.7	30	40	27.3	3.09
S-W3	Construction)	27.06.2014	Nawhara Tapping Point	Downstream	10.4	7.6	70	9	1.5	39	230	12	38	44	21	5.59
	Q2 (Apr-Jun	June 30-06-2018	Doodhganga near Wathoor	Upstream	21	7.3	270	7.2	2.0	189	140	2.5	55	85	75	2.4
	2018)			Downstream	22	7.4	275	7.4	2.5	192	147	3.0	58	84	76	2.0

52. During Q2 period of monitoring in June 2018, the water samples were collected from the Doodhganga stream near Wathoorbridge.

Moderate flow was recorded during the sampling period and colourless in appearance. BOD values were exceptionally on lower



sideand following the permissible limits and baseline characteristics. Dissolved Oxygen was recorded at a maximum of 7.4 mg/l. However, TSS was marginally on higher side attributed to the turbulent flow of water which brings sediments from the upper reaches. Alkalinity and Hardness were observed on lower side.

53. The present study revealed that Dissolved Oxygen of the concerned stream was found to be healthy due to the moderate flow of the water. BOD was found to be in permissible limits. Conductivity, TDS, and pH were well within permissible limits. Comparative analysis of the Doodhganga stream is illustrated in Figure 11 below;

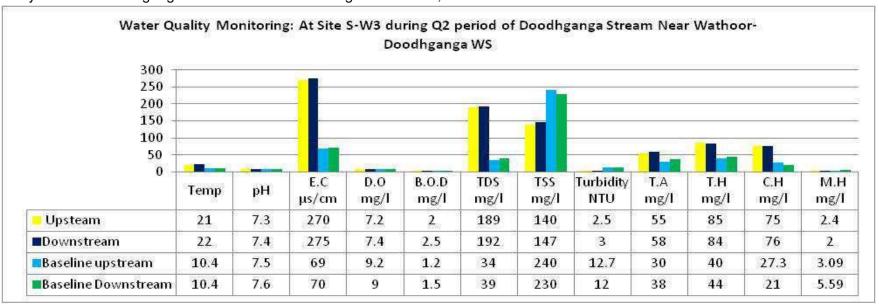


Figure 08: Water quality characteristics of Doodhganga Stream - At Site S-W3 of Doodhganga Water Supply Subproject



54. Table-14: Construction of Grade Separator in Srinagar City.

WATE	R QUALITY DA	ATA														
Site	Quarter	Month of	Sampling	Location	Temp ^º C	рН	E.C μs/cm	D.O mg/l	B.O.D mg/l	TDS mg/l	TSS mg/l	Turbidity NTU	T.A	T.H	C. H	М.Н
Code		Sampling	Site						l	Permiss	ible Lin	nits				
		with date			-	6.5- 8.5	≤500	>6	5	≤500	≤120	5-10	200- 600	300- 600	75- 200	30-75
				Downstream	24	7.4	760	2.2	30	380	205	22	280	230	185	11.0
Grade	Separator At	TRC/ Radio I	Kashmir Cross	sing												
	Baseline Monitoring	July 06-07-2013	Jhelum River Near Zero	Upstream	19	8.0	260	7.0	2.0	158	136	2.1		of the b	paseline n	were not nonitoring.
			Bridge	Downstream	20	8.0	267	6.6	2.0	160	140	2.2	include March	ed into		ing from
S-W7	Q2	April	Jhelum River	Upstream	21	7.5	220	7.6	1.5	110	130	2.5	90	120	113	1.7
	(Apr-Jun 2018)	24-04-2018	Near Radio Kashmir	Downstream	22	7.6	230	7.4	1.8	115	141	2.6	96	124	116	1.9

55. During Q2 period, water quality monitoring was conducted at S-W7 site and water samples were collected from the upstream and downstream of River Jhelum near Abdullah Bridge. Flow regime was normal during this period. The water in the stream was found to be clear and odourless. Water quality results were in healthy state as most of the parameters were within the standards. TSS was moderately on higher side due to the suspended substances which the river brings along its course and effect of erosion/ edge effect. DO was also observed at optimum level due to the flow regime and volume of water. Total Alkalinity and Hardness were recorded on the lower sides. Comparative analysis of the River Jhelum is illustrated in Figure 12 below;

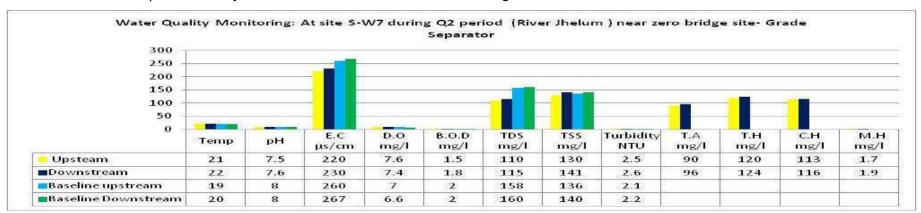


Figure 09: Water quality characteristics during Q2 period in April 2018 of River Jhelum at Zero Bridge (S-W7) near Grade Separator site.



- 7. ANY OTHER ENVIRONMENTAL ASPECTS, IMPACTS OBSERVED DURING IMPLEMENTATION WHICH WERE NOT COVERED EARLIER
- 56. During this reporting period no such impact was envisaged.
- 8. DETAILS OF COMPLAINTS RECEIVED FROM PUBLIC AND ACTIONS TAKEN THEREOF TO RESOLVE
- 57. No complaints received during the reporting period.
- 9. FOLLOW-UP ACTIONS AND CONCLUSIONS
- 58. Since environmental monitoring is the ongoing process as per the EMP regulations set for the subproject under Tranche-3 with 95% projects completed. In accordance to the environmental monitoring programme of each subprojects, during defect liability period monitoring is essentially required to set a benchmark for comparative study during deg=seign, construction and operation phase of the project. Site supervision of above sub-projects under execution was carried out regularly to ensure that environmental impacts are adequately mitigated and to ensure continuation of compliance with statutory regulations as required by laws and agreed upon EMP. The contractor is being regularly guided and instructed to adhere to the provisions of EMP under contractual conditions.

Signed by:

Authorized signatory from Implementing Agency/ Executing Agency.

(Abdul Majid Shabhura)
Director Safeguards 2018
J&K ERA



Appendix-1: Public Consultation (Participants) Details of Rawalpora SWD in Srinagar

Sub Project Name: SWD Project for Rawalpora - Champi Location of Meeting / Consultation. In and Around Constr Date and Time: 2-6/4/10. 2:20 cm S.N Name Age/ Sex Occupation Address Signature 1 Ab. Majeed 40/M Business Rawalpora Ac. Maje 2 Bashin Ahmod 30/M Business Rawalpora Smill	uetii
Date and Time: 26/4/10. 2:20 cm 5.N Name Age/Sex Occupation Address Signature 1 Ab Majeed 40/M Business Rawalform A6 Majeed	u.Or
1 Ab Mujeed 40/M Business Rawalpera Ac Mu	
Ab Majeed 40/M Business Rawalpena De on	ŧ
2	ż
Bashin Ahmad 30/M Business Rawalpora mill	1-
3 Hilal Ahmad 21/m Student powalpura oficial	2
1 Infan Rasual 30/M Student chanpora for	•
5 Farray Ahmad 45/m Govtemploye Sanatnagan Ecos	
Jan mohd 27/M Prtemployee wantal	1
Michnaz 29/F Consultant wantal the	1
M. Ashraf 39/M Shopkeeper Bypass &	-
Subhan Day SI/m Business Sanatnagan	X
trul Khur 53/m cana realer Rungreth des	6
Insherd 25/m Student Rangreth 12	<i>y</i>
majid 34/m instrutt changera res	Z
13 Ish Aiyaq 37/m Business Nowgam Joh. 14 Sumainer 25/F Employee PeerBagh See	Ou
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Appendix-2: Public Consultation (Participants) Details of Mehjoor Bridge and Grade Separator in Srinagar

Jammu and Kashmir Urban Development Investment Program (JKUSDIP)

List of Participants in Consultation with Signatures

Sub Project Name: New Muharov Bridge & Grand Separator Construction Sites.

Location of Meeting/Consultation: Around Construction Zone

Date and Time: 17/88/18. 18139 L.

S.N	Name	Age/ Sex	Occupation	Address	Signature
1	Asil	29 m	students	Sainagan	Argy
2	Mushtag	35 M	Businershi	Jawahan Nagan	musional
3	Infan Ahmad	431 M	Shop Keeper	Jawaher	infole
4	trunher Ahmad	31/M	Employee	Ruj Bash	Coulow
5	Owars Shah	331M.	Business	RajBash	Owist
6	Faizan	28/M.	Student	ENDHAN	Della
7	Suharb	26/M.	Put Jobyce	Padskahi Bash	Sugator
8	Świka	2218-	Student	Januahan Nagan	8
9	Mehreen	22/8.	Stydent	Rajadsh	MY
10	Nussat	2018.	Employee	Lad mundi	Human
11	Brityees	4010 -	Home mite	kny isnegh	&
12	Shabeer Ah.	431M	Prost mpluyed	Shinagan	Seden
13	Jan mohd	29/M	Prtemployee	30 To 10 To	almord.
14	Showkat	361M	Busi ness	Sonapar,	Strong !
15	Bashin Ah.	58/m	Farmer	RujBugh	بنير احما

cland Trayor



Appendix-3: Public Consultation (Participants) Details of Doodhganga Water Supply, Srinagar.

			Development (USDIP)		
Sub	Project Name: PA	oviding &	consultation w Laying of Ri notported The	aw water n tment plan	nain Inom
	e and Time: 7-3/0	14 323 74	on: Along +	ne constru	uction 2
S.N	Name	Age/ Sex	Occupation	Address	Signature
1	Mushtag	40/m	Business	Knalpana	turi-
2	Umer	37/m	student	Budgum	, 69
3.	mohd Sultan	50 M	Business		1417-19
A	Boshir Ahman	330	Business	Chadrota	60
5	OWWD Ahmed	341m	Shudent	Kralpora	6.
6	Gul Khan	80 IM	Farmer	Niphani -	Poul 10
7	Amer Khunn	62 M	Farmer	Nowhara	- al S
8	200			Nowhana	Consoli
9	Ali Mohd	52/M	Farmer	Nilhag	Mide
10	1 1 0 1		Farmer	Kralpura	Den.
11	A	42/M	Business	Chadrora	A .
12	J-Man Ahmad		Student	Back-o-MA	b Cini
13	Arij Amin.	311m	Student	Nowyam Bye Wass	Com
14	Nuzeem Ahma	25 / NI	Student	Byellass -	
15	Razia Bano	21/1	Business		



Appendix-4: Sampling Site location of Storm Water Drainage in Rawalpora Srinagar









Appendix-6:Sampling site location map of Doodhganga Water Supply Subproject Srinagar



SOUTH ASIA REGIONAL DEPARTMENT SAUW Semi-Environmental Monitoring Report Log Sheet

Project title:	IND: Jammu and Kashmir Urban Sector Development Investment Program – Tranche 3						
Loan Number:	3132	Project Number		41116-043			
Overall Project and Objectives	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.						
	In Srinagar, there are three sub-projects:						
	 (i) Construction of Surface water Drainage System for Rawalpora-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. 						
	In Jammu, there are four sub-projects:						
	 (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. 						
	noted in the SEMR th	nat the construction EMP implementat	n for 5 pag	ckages (3 in Srina	oruary 2018. However, it wa agar and 2 in Jammu) are s to ADB until the Project		
Approved		Category A			Category C		
Categorization	X	Category B			FI		
Loan Effectivity Date:	19 August 2013			Frequency of Reporting	Semi-Annual		
Project Officer	Momoko Tad		Project Ar		Susan Francisco		
Reporting Year	2018	Coverage Perio	d	January – June 2	2018		
Dates	PMU submission to ADB	20 November 20	18	ADB comment submission to I	8 January 2019		

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
A. Project Safeguards Tea				
PMU ³	No available information	PAM requires 4 safeguards experts hired in the PMU (2 for environment (Srinagar and Jammu), 2 for social (Srinagar and Jammu).	In the next SEMR, ensure to include information on PMU safeguard experts and PMC safeguard consultants.	Noted. Currently two environmental experts- one each at Jammu and Srinagar-are working in PMU. However one Social expert is looking after both the regions.

¹ PCR – Project Completion Report

1

² PMU to provide detailed response. This log sheet will be attached to the SEMR and disclosed on ADB website.

³ PMU – project management unit

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
	CLIMIT	Although the project is now financially closed, civil works are still ongoing. Therefore, safeguards experts in the PMU and the PMC safeguard consultants are still required to oversee the ongoing implementation.	Tioquilou	The contractual tenure of Project Management Consultancy (PMC) was over in Sept 2017, since then no PMC service is available for the projects.
PIU ⁴	No available information	PAM does not mention any safeguards officer or expert at the PIU level. The Project Management Consultant (PMC) has safeguard experts who are tasked to assist the PMU and PIUs (see below).	None.	
Consultants	No available information	The PMC requires to have Environmental Expert (20 person-months) and Social, Gender and Resettlement Expert (25 person-months).	In the next SEMR, ensure to include information on PMC safeguard consultants.	The contractual tenure of Project Management Consultancy (PMC) was over in Sept 2017, since then no PMC service is available for the projects.
Safeguards implementation arrangement (check PAM, EARF if applicable and IEEs)	No available information.	The PMU safeguard experts will lead safeguards implementation, with the assistance from the PMC and DSC. The contractors are required to have full time environmental safeguards officers who will implement the EMPs.	In the next SEMR, ensure to include summary on the safeguards implementation arrangement, including information on the environmental safeguards officers of contractors.	Noted. Same will be included in the next SEMR.

⁴ PIU – project implementation unit

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
		Although the project is now financially closed, civil works are still ongoing. Therefore, contractors are still required to engage full time environmental safeguards officers.		
B. Overall Project and Sub packages) ⁵	project Description (su	mmarize number an	d type of	
Number of Packages with civil works (check if consistent with latest procurement plan)	7 (3 in Srinagar and 4 in Jammu).	Loan closing was on 30 May 2017 and financial closing on 8 February 2018.	None.	
Number of DB/DBO	None	,	None.	
packages and status Number of civil works packages and status	Srinagar: 3 packages – still ongoing Jammu: 2 packages – still ongoing		In the next SEMR, continue to report on the progress of implementation of these packages.	Noted.
	2 packages – 100% completed.		,	
IEEs cleared for awarded packages?		Yes. The IEEs corresponding to the awarded packages are disclosed on ADB website.		
Safeguard documents disclosed on project website?	No information available.		In the next SEMR, ensure to include information on disclosure of safeguard documents on project website.	Noted.
SEMR information on implementation phase (bidding, on-going, construction, completed, under operation, others)	SEMR includes information. All packages except the following have been completed: (i) Srinagar area, construction works as of end June 2018: - Construction of Surface water Drainage System for	The SEMR is clear on the physical progress of subproject implementation.	In the next SEMR, continue to report on the progress of implementation.	Noted.

⁵ DB/DBO – design-build or design, build, and operate or where contractor will finalize the detailed engineering design; civil works contract – sufficient 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 ²
	Rawalpora-		Hoquilou	
	Chanapora area			
	(Physical progress -			
	96.70% completed.) - Providing and laying			
	of Raw Water main			
	from higher reaches			
	of DoodhgangaNallah			
	to Kralpora Treatment			
	plant at			
	Srinagar(Physical progress - 80.50%			
	completed.)			
	- Construction of New			
	Mehjoor Bridge at			
	Jawahar Nagar			
	(100% Completed)			
	and Two Grade Separators in			
	Srinagar city".			
	(Physical progress -			
	55.00% completed.)			
	(ii) <u>Jammu area</u>			
	construction works			
	as of end June 2018: - 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. (Physical			
	progress - 96.00 %			
	completed.)			
	- 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.			
	(Physical progress –			
SEMR information on	99.00% completed). Same as above.	The SEMR is	In the next	Noted.
construction activities	Came as above.	clear on the	SEMR, continue	INOIGU.
progress		physical progress	to report on the	
		of subproject	progress of	
C. Status of compliance w	ith statutory clearances	implementation.	implementation.	
summarize the findings for e				
specify validity period)				
Environmental Clearance	EC not required	It is clear in the	None.	
(EC)	under the project	EARF and IEEs		
		that EC is not		

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
		required under the project per 1994 EIA Notification		
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)	All CTOs exist as of the reporting period.	However, some have expired with the period, as follows: (i) Two Consents to Operate (CTOs) equipment (i.e. stone crusher plant and hot mix plant) in Srinagar site; and (ii) One CTO equipment (i.e. stone crusher plant) in Jammu site.	Ensure to include in the next SEMR copies of renewal of these CTOs that expired.	Noted. Same will be annexed.
Road-cutting permit	None is required.		In the next	Noted.
Utilities shifting permit	None is required.		SEMRs,	
Tree-cutting permit	Permits required have been obtained.		continue to report on the validity of permits secured under all packages.	
Others (specify)				
D. Status of Compliance w agreement)	ith loan covenants (ver	ify items in SEMR w	ith project loan	
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	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
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 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 the provisions set forth in the IEE and EMP and are being complied with.	All contracts have already been issued.	None.	
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 already 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.	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.
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.	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.
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	All the areas that if disturbed by construction activities will be cleared and restored to preproject condition.	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²			
condition upon the	<u> </u>	until ADB issues					
completion of construction. The Borrower shall ensure or cause the EA to submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission.	Semi-annual reports are prepared and submitted to ADB as per the guidelines.	a PCR. The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.			
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.	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.			
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.	The EA needs to comply with this for all subprojects, whether partially or fully completed. Monitoring of compliance should continue until ADB issues a PCR.	Continue monitoring of compliance with this loan covenant and report status in the next SEMR.	Noted.			
	. Contractors Compliance with Environmental Safeguards Requirements						
Appointment of Environment, Health and Safety (HSE) and/or nodal person	No available information in the SEMR.	The loan agreement and PAM states that contractors will have the responsibility to implement the IEEs and EMPs. And that the IEEs explicitly states the responsibility of a contractor to appoint its own full time environmental	Provide information on the appointment of full time environmental safeguards officers (or equivalent) of contractors.	Noted. Same will be provided in the next report.			

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
		safeguards officer.		
Submission of site-specific EMPs	No information provided in the SEMR	This has not been required in the loan agreement, PAM or IEEs.	None	
Submission of SEMP implementation report (specify in comments frequency – daily, weekly, monthly or quarterly basis)	No information provided in the SEMR	This has not been required in the loan agreement, PAM or IEEs.	None	
Site verification by PMU, PIU, or consultants (verification report should be attached to the SEMR)	No separate site verification report attached to the SEMR	The SEMR discusses all the environmental monitoring activities such as environmental sampling done.	In the next SEMRs, always attach the following: (i) separate reports duly signed by the field inspectors (PMU, PIU or consultants) on the monitoring activities done; (ii) photos taken during the inspections; and (iii) copies of certificates of laboratory analysis of environmental samples taken (ambient air, noise, and water).	Noted. Same will be attached in the next report.
SEMR compliance matrix on mitigation measures implementation (matrixes are based on approved SEMPs)	No detailed discussions provided in the SEMR.	The SEMR does not have compliance analysis on the mitigation measures presented in the EMPs.	Confirm if contractors is satisfactorily complying with EMP and implementing mitigation measures. In the next SEMR, provide a section in the report to discuss compliance on each mitigation measures indicated in the EMP. For convenience, use the EMP tables in the IEEs and add	All the contractors of the ongoing work are complying and implementing EMP satisfactorily.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
			another column to discuss the compliance of each mitigation measure.	
Other information	Statutory clearances such as Consents to Operate (CTOs), tree cutting permit requirements, etc. are discussed and summarized in the SEMR.	As commented above, some CTOs have expired during the reporting period. Update on the renewal of these CTOs should be reported in the next SEMR.	In the next SEMR, continue to report on the status of all statutory clearances, including the renewal of expired CTOs or any permits that are still needed by the subprojects with ongoing civil works.	Noted.
F. Environmental Monitorii		T	T	
Rationale Parameters to be monitored are commensurate to the impacts, mitigation measures, and project/subproject/package	No information. This is discussed in the SEMR. Environmental sampling activities were conducted for ambient air, noise level and surface water quality.	This complies with the parameters discussed in the IEEs and EMPs.		
Sampling locations identified and appropriate	Sampling locations are discussed, and the maps showing these locations are attached.	On the ambient air quality and noise level sampling – no discussion as to how the locations were selected. On the surface water quality sampling – it is satisfactory since the sampling activities were conducted at both the upstream and downstream portions relative to the locations of construction activities.	In the next SEMR, please include discussions on the basis of selecting sampling locations for the following: (i) ambient air quality; and (ii) noise level. Continue to conduct surface water quality sampling at the upstream and downstream portions relative to the locations of construction activities.	Noted.
Sampling frequency identified and appropriate	One sampling for each location was conducted during the reporting period.	At least one sampling is enough, provided that sampling activities are conducted when	In the next SEMR, indicate the activities being undertaken when	Noted.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
		there are construction activities under the project.	environmental sampling is conducted.	
Sampling collection and analysis are in accordance with internationally-accepted practices	The method of analysis of samples collected are based on national standards.	The method of analysis are based on national standards. This is consistent with the provision in the IEEs and EMPs wherein national standards will be followed.	Continue monitoring of compliance with the methods of analysis of samples collected, and report status in the next SEMR.	Noted.
Standards and performance indicators are compliant with ADB SPS requirements ⁶ (provide justification if less stringent standards are used)	The standards are presented in the SEMR.	The presentation in the SEMR is similar to the presentation in the IEE. It is explicit in the IEEs that the project will comply with the national standards for ambient air, noise and water.	Continue monitoring of compliance with the standards and report status in the next SEMR.	Noted.
G. Environmental monitori	ng results (narrative ba		esults)	
Air quality results	Ambient air quality sampling in two locations in Srinagar site revealed RSPM ₁₀ results higher than the standard. Field verification showed that this is attributed to both the heavy traffic and construction activities in the area. It was also noted that the baseline data from these sampling sites already revealed higher value of RSPM ₁₀ compared to the standards. Even so, the contractors were advised to implement its	The results of the sampling are well presented in the main body of the SEMR. However: (i) copies of the certificates of laboratory analysis are not attached to the SEMR; and (ii) no discussions on the basis of selecting the sampling locations.	In the next SEMR, include the following: (i) attach as appendix copies of the certificates of laboratory analysis on samples collected; and (ii) discussions on the basis of selecting the sampling locations.	Noted. Same will be attached.

⁶ 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	Comments	Action/s	Response by PMU ²
	SEMR corrective action plan		Required	
	to effectively control			
	dust generation in the			
	area.			
Water quality results	Surface water quality	The results of	In the next	Noted.
	monitoring was also	analysis and	SEMR, include	
	done at various	sampling	information on	
	sampling points in	locations are well	whether the	
	streams/rivers near the subproject sites.	presented in the SEMR.	sampling activities were	
	Analysis showed	OLIVII t.	conducted when	
	mixed results wherein		civil works	
	some sampling sites		under the	
	gave marginally		project are	
	higher values than		ongoing.	
	the standards.			
	However, field			
	verification revealed that these higher			
	values are attributed			
	to anthropogenic			
	activities in the city			
	and not because of			
	the ongoing			
Nicion su clitur vo culto	subproject activities.	The very lite of the	In the next	Noted
Noise quality results	Noise level measurements have	The results of the sampling are well	In the next SEMR, include	Noted.
	been conducted at	presented in the	the following:	
	construction sites.	main body of the	tho following.	
	Most results reveal	SEMR. However:	(i) attach as	
	higher values than	(i) no copies of	appendix copies	
	the standards.	the certificates or	of the	
	However, it is noted	logs/printouts of	certificates or	
	that baseline noise level at these sites	actual noise measurements	logs/printouts of actual noise	
	were already higher	are attached to	level	
	than the standards.	the SEMR; and	measurements;	
	Even so, the	(ii) no	and	
	contractors were	discussions on	(ii) discussions	
	advised to strictly	the basis of	on the basis of	
	implement the EMPs	selecting the	selecting the	
	to mitigate high noise levels at the sites.	sampling locations.	sampling locations.	
Others	n/a	iodations.	iocations.	
H. Consultations and/or FC		g period	<u> </u>	
Number	3			
Reason/s for	Continuing	This is in	Continue	Noted.
consultations/FGDs	consultations in	compliance with	monitoring of	
	compliance with IEEs	the responsibility	compliance with	
	and EMPs.	of EA to conduct continuous	this responsibility	
		consultations	and report	
		throughout the	status in the	
		project	next SEMR.	
		implementation		
		phases.		
Number of participants	45	0.1.0		N
Number of female	8	Only 8 out of 45	Ensure to	Noted.
participants		are female.	involve more	
		There is a need	women in the	

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
		to improve/increase the participation of women.	consultation activities, and report results in the next SEMR	
I. Trainings, Workshops, S		orting period		
Number	No information in the SEMR.		In the next SEMRs, include	Noted.
Topics	No information in the SEMR.		summary of training,	
Number of participants	No information in the SEMR.		workshops or seminar	
Number of female participants	No information in the SEMR.		conducted during the reporting period. If there is none, ensure to state as well.	
J. Grievance Redress Mecl	hanism			
GRM per PAM or IEE/EARF established	No discussion in the SEMR.	It is suggested to include a	In the next SEMR, provide	Noted
GRM notified via publication or notice boards	No discussion in the SEMR.	summary or brief discussion of the GRM and GRC	a summary discussion on the GRM in	
GRM members identified	No discussion in the SEMR.	membership	place based on the IEE,	
GRM members have capacity to address project-related complaints (detailed information on capacity development of GRM members such as trainings, workshops, briefings, etc should be attached in the SEMR)	No discussion in the SEMR.		including current membership of the GRC. Also include any other additional information pertaining to the implementation of the GRM, such as capacity development training of GRM members, meetings, etc.	
Number of meetings conducted (attach minutes of the meeting) K. Complaints Received (d	No discussion in the SEMR. However, it is clear in the SEMR that there were no complaints or grievances received during the reporting period.	ature of complaints	None. In the next SEMR, continue to report whether or not there are complaints received during the period and discuss the status of resolution of the complaints, if any.	Noted.
status of resolution)	cianca imormation on Ha	auro or complaints, s	anninary and	
Number of complaints	No complaints received during the reporting period.	None.	In the next SEMR, continue to report	Noted.

Item	Findings in the SEMR	Comments	Action/s Required	Response by PMU ²
Nature (provide summary of issues/concerns)	n/a	None.	whether or not there are	
Status of resolution	n/a	None.	complaints received during the period, and discuss the status of resolution of the complaints, if any.	
L. Summary of Issues and		T = =	I - " ' '	
Major issues/concerns (specify)	No discussion in the SEMR.	SEMR is not clear on construction-related issues/concerns compliance analysis on the mitigation measures are is not reported.	Confirm if contractors is satisfactorily complying with EMP and implementing mitigation measures.	All the contractors of the ongoing work are complying and implementing EMP satisfactorily.
Corrective Action to be implemented, timeline, responsible person/s, and budget are clearly specified	None.			
M. Status of Corrective Ac provide status)	tion Plan from Previou	s Reporting Period	(list all and	
N/A				
N. Appendixes	Lai	T-1 : 1	I i ii i	N
Photos	None	There is a need to provide photos of field inspection, sampling activities and consultation meetings.	In the next SEMR, ensure to include as appendix photos of actual conduct of field inspections, sampling and consultation activities (see below related comment). In the next	Noted.
Summary of consultations	The summary of consultations is included in the main body of the report.	Although the summary of consultation meetings is discussed in the main body of the report, a separate standalone highlights or minutes of meeting, including signed attendance sheets, should be prepared and attached as	SEMR, ensure to include as appendix the following: (i) minutes or highlights of consultation meetings; (ii) attendance sheet signed by participants, including information on the gender of	INCIEU.

Item		Findings in the SEMR	(Comments	Action/s Required	Response by PMU ²
			appendix. Only signed attendance sheets are provided in the appendix.		each participant; and (iii) photos of the actual conduct of consultation meetings.	
Copies of environmental clearances and permits		clearan permits during t reportir should provide attache		ironmental arances or mits secured ng the orting period	In the next SEMR, ensure to attach as appendix all clearances or permits secured or renewed during the reporting period.	Noted.
Site EMPs	N/A	A				
Checklists	N//	A				
Others						
O. Review and clearance for	or di	sclosure				
Reference		SEMR submitted or	า 20	November 2018	8	
		Name		Date		
Reviewed by		Miguel Diangan		9 January 20		
Noted by		Ninette Pajarillaga		23 January 20	019	
Response to ADB commer by	nts	Director Safeguards J&K ERA)19	
Status/Remarks		Recorded as submitted	20 November 2018		2018	
		Send comments to PMU for responses comments and guidance for the ne SEMR.				