

**SOUTH ASIA REGIONAL DEPARTMENT  
SAFEGUARDS INFORMATION LOG FOR SAUW PROJECTS**

<b>Project:</b>	India : West Bengal Drinking Water Sector Improvement Project (WBDWSIP) – Water Supply Distribution System for Taldangra block of Bankura District : IEE (Based on Draft IEE for Item Rate Contract)		
<b>Loan No.:</b>		<b>Package No.:</b>	<b>Package WW/BK/02B</b>
<b>Components:</b>	<b>Water Supply Distribution System</b>		
		Intermediate booster pumping station cum ground level storage reservoir (GLSR of capacity 1200 KL), chlorination building, operators room cum office building, guard room and other allied works at Chenchuriya Mouza of Taldangra Block	
	<b>Laying of Clear Water Transmission Mains</b>	Length: 119 km and diameter ranging from 100 to 600 mm	
	<b>Construction of OHRs</b>	24 OHRs of capacity ranging from 250 to 900 KL (15 nos OHRs on private land and 9 on Government land)	
	<b>Distribution Network</b>	1050 km of distribution network - diameter ranging from 63 mm to 450mm	
	<b>Domestic Water Meters</b>	Providing domestic water meters	
<b>Contract Type:</b>	Item Rate Contract Detailed design will be completed by contractor. The detailed design is expected to be completed by November 2019.		
<b>Date of IEE:</b>	August 2018		
	<b>Draft IEE</b>	<b>Updated/Revised IEE</b>	<b>Others/Remarks</b>
	(due to detailed engineering design)		The IEE will be finalized by DSISC and submitted to PMU for clearance. No works will commence until the final IEE (or in case of chainage-wise, SEMP) is cleared by PIU and PMU. The final IEE including Site-specific EMP/s (SEMP) will be submitted to ADB for review and disclosure.

1.	Activity	Status		Detailed Comments and Further Actions Required
		Yes	No	
	Environmental assessment has been satisfactorily conducted based on ADB REA Checklist and scoping checklist. <sup>1</sup>	X		This draft IEE covers the impact on construction of Improvement of water supply distribution system in Taldangra block of Bankura district. The environmental assessment is based on best available information and preliminary design as indicated in the package tender documents.

<sup>1</sup> ADB Rapid Environmental Assessment Checklist for screening and categorization. Scoping Checklist (“No Mitigation Scenario” Checklist) for scope of IEE, identification of impacts and development of environmental management plan.

	Activity	Status		Detailed Comments and Further Actions Required
				<b>Further action/s:</b> The environmental assessment will be conducted based on detailed engineering design once it is completed. This is to confirm/verify findings of "Category B" and recorded in the final IEE.
2.	Environmental assessment based on latest project components and design	<b>Yes</b>	<b>No</b>	The environmental assessment is based on preliminary design as per bid documents. The detailed engineering design will be completed by the DBO contractor.  <b>Further action/s:</b> The environmental assessment will be conducted based on detailed engineering design is completed.
			X	
3.	Statutory Requirements <sup>2</sup>		Forest Clearance	Not applicable. The components will not be located in sites regulated under The Forest (Conservation) Act, 1980
			No Objection Certificate	Road cutting permission is required for pipe laying work by the contractor under the supervision of PIU from NH/PWD authorities .
			Site Location Clearance	Not applicable
			Environmental Compliance Certificate	Not applicable. The components are not listed in the Schedule 1 of the EIA Notification Act and its rules and regulations.
			Permit to Construct (or equivalent)	Not Applicable
		X	Permit to Operate (or equivalent)	The following will require Consent to Operate from WBPCB: (a) diesel generators; and (b) hot mix plants, wet mix plants, stone crushers, etc (if installed for construction).  <b>Further action/s:</b> The contractor under the

<sup>2</sup> If applicable, Include date accomplished or obtained.

	Activity	Status		Detailed Comments and Further Actions Required
				supervision of PIU will obtain the Permit to Operate after award of contract. The application be filed at West Bengal Pollution Control Board, Durgapur Regional Office before mobilisation/installation of instruments at site.
		X	Others	PIU will obtain the Tree-felling Permission from Forest Department under West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006. The application will be filed once detailed design is completed. The replacement ratio 1:5).
5.	Policy, legal, and administrative framework	Adequate	Not Adequate	<p>The draft IEE includes discussions on applicable policy, acts and rules. Obtaining the required permits and NOC is the responsibility of PMU/PIU.</p> <p>The draft IEE also confirmed that international best practices (specified in EHS Guidelines) have been incorporated in the preliminary design.</p> <p><b>Further action/s:</b> Any condition in the permits/NOC will be incorporated in the final IEE and contractor SEMP. PMU to include in final IEE justification if (i) lesser stringent standards or lesser performance levels as per EHS Guideline will be followed in the detailed engineering design; (ii) DBO will consider other standards/indicators not consistent with the cleared EMP.</p>
		X		
		Frameworks included:		
		X	National regulation/law on EIA	
		X	Environmental agency	
		X	Relevant international environmental agreements	
		X	Environmental standards (IFC's EHS Guidelines)	
6.	Anticipated environmental impacts and mitigation	Impacts and risks:	Mitigation Measures:	Site-specific EMP (SEMP) will be prepared by DBO contractor after finalization
			Yes      No	

	Activity	Status			Detailed Comments and Further Actions Required
	measures				of the detailed engineering design. The SEMP will be reviewed and cleared by PIU and PMU before start of construction activities. Works will not be allowed to commence until the SEMP is cleared. The final IEE together with the SEMP will be submitted by PMU to ADB for final review and clearance. Implementation of the SEMPs will be recorded and reported to ADB.
		Biodiversity conservation			Not applicable. No habitats/areas for biodiversity conservation (as defined in ADB SPS).
		Pollution prevention and abatement	X		The draft IEE also confirmed that international best practices (specified in EHS Guidelines) have been incorporated in the preliminary design.
		Health and safety	X		Included in the EMP.  <b>Further action/s:</b> The contractor is required to (i) designate a Health and Safety Officer; (ii) develop and implement a Health and Safety Plan; (iii) follow the mitigation measures in the EMP; and (iv) if required, expand in the SEMP the mitigation measures as appropriate in the site conditions.
		Physical cultural resources			Not applicable
		Cumulative impacts			Not applicable. There are no other on-going or planned projects that may cause negative cumulative impacts.
		Transboundary impacts			Not applicable. The subproject/package is relatively small-scale in nature to have potential transboundary impacts.

	Activity	Status			Detailed Comments and Further Actions Required
		Addressed	Not Addressed	None	
7.	Impacts from Associated Facilities <sup>3</sup>	Addressed	Not Addressed	None	Not applicable. There are no associated facilities under this subproject/package.
				X	
8.	Analysis of Alternatives	Yes	No		Not applicable. This is Category B. Alternatives analyses related to alignment/sites and designs were conducted as part of the preliminary design stage.
			X		
9.	EMP budget included	Yes	No		The indicative cost of EMP for Package is INR <b>24,54,000.00</b> . The bid documents include BOQ item for items related to EMP implementation.  <b>Further action/s:</b> The cost of EMP and monitoring program will be reviewed based on detailed engineering design. The final IEE will include the costs/budget of the DBO contractor to implement the SEMP and other requirements related to environmental safeguards.
		X			
10.	EMP implementation integrated in PAM and bid documents	Yes	No		(i) The Project Administration Manual (as cleared by ADB) included sections on environmental safeguards. Information in the PAM has been considered in the preparation of the draft IEE. (ii) The EARF also provided detailed requirements on EMP implementation. These are included in the draft IEE. (iii) The draft IEE (cleared by ADB) is included in the contract documents and will be provided to the contractor. Environmental Specialist of DSISC will provide EMP and safeguards induction to contractors upon mobilization.  <b>Further action/s:</b> The PAM
		X			

<sup>3</sup> ADB SPS (Appendix 1 para 6) defines associated facilities as not funded as part of the project (funding may be provided separately by the borrower/client or by third parties), and whose viability and existence depend exclusively on the project and whose goods or services are essential for successful operation of the project.

	Activity	Status		Detailed Comments and Further Actions Required
				and EARF should be used in the finalization of the IEE during detailed design. Environmental Specialist of DSISC should ensure the contractor is given a safeguards induction prior to mobilization.
11.	Consultation and Participation	Yes	No	<p>Meaningful consultations were done with Government officials, women and residents in July, 2018.</p> <p><b>Further action/s:</b> Meaningful consultations with stakeholders and affected people will be conducted by PIU during detailed engineering design and monthly frequency during construction.</p>
		X		
12.	Grievance Redress Mechanism	Yes	No	<p>Project GRM has been included in the PAM and EARF cleared by ADB. The same GRM is included in chapter VII of draft IEE (main text).</p> <p><b>Further action/s:</b> Notification of the GRM, identification/ appointment/designation of the GRC members. Capacity building of the GRC members by the PMU to ensure they are capable to address project-related complaints and grievances.</p>
		X		
		Description of GRM		
		Identification of GRC members		In Progress. Expected to be identified by PMU soon
13.	Disclosure		Endorsement to disclose on ADB website	<p>Upon approval from ADB, PMU will disclose in their Website</p> <p><b>Further action/s:</b> ADB will disclose draft and final IEE upon review and confirmation that these satisfactorily meet ADB SPS</p>

	Activity	Status		Detailed Comments and Further Actions Required
				requirements
			Disclosed on project website	For follow-up
			Relevant information available to stakeholders and affected people in language and form they understand	Public disclosure meeting was held in January, 2018 at Bankura. Pamphlets in Bengali were distributed to the participants, describing the need and benefits provided by the project.  <b>Further action/s:</b> Information sharing will be continued, recorded, and reported in the monitoring report during implementation.
14.	Mobilized PMU Environment Specialist	Yes X	No	PMU Environmental Specialist Mr. Sudip Ghosh, Executive Engineer
15.	Mobilized PIU Environment Specialist	Yes X	No	PIU Environmental Specialist Mr. Suman Pramanik Asst. Engineer, Bankura PIU
16.	Mobilized Environment Specialist at PMU level	Yes X	No	The Environmental specialist of PMU will be supported by Environmental expert of Project Management Consultant (PMC) to supervise, monitor and oversee the implementation of safeguard issues.
17.	Mobilized Environment Specialist at PIU level	Yes X	No	Apart from Environmental Specialist of PIU, The PIU will be assisted by DSISC team which will include an Environmental Specialist to monitor environmental safeguard tasks and responsibilities and also ensure day-to-day supervision and monitoring of contractor's compliance.
18.	Awareness training on compliance to safeguard requirements	Yes X	No	The draft IEE included indicative training program.  <b>Further action/s:</b> The final IEE will include detailed training program to be provided by the DSISC. The over-all Environmental Training Program will be

	Activity	Status	Detailed Comments and Further Actions Required
			submitted in the first semi-annual environmental monitoring report.
19.	Others/Remarks	<p>The following information are based on preliminary design and included in the draft IEE:</p> <ol style="list-style-type: none"> <li>1. The raw water source is Mukutmonipur reservoir, which has abundant quantity of water throughout the year, even during the lean flow season. The quality of raw water is good and is suitable for drinking water supply after conventional treatment and disinfection. Treated water for the subproject will be provided from bulk water supply system that is being developed under a parallel subproject, and the environmental impacts of which are assessed through an another IEE.</li> <li>2. There are no protected areas, wetlands, mangroves, or estuaries in or near the project locations.</li> <li>3. No significant involuntary resettlement impacts are anticipated due to implementation of the proposed sub-projects components based on the preliminary design and information received from PHED. The IBPS cum GLSR and the 24 OHRs will be constructed on private/Govt land and that will be procured through negotiated purchase. The laying of clear water transmission mains from GLSR to OHRs are proposed within the RoW of PWD roads. Distribution network are proposed within the RoW of Panchayat roads. Blocking of access to the business / livelihood activities, especially during pipeline laying along the roads, may impact the income of households. However, given the alignment of pipeline, trenchless technology for road crossing, and also the measures suggested for ensuring accessibility during pipeline works, no notable impact is envisaged.</li> <li>4. Groundwater in this block is contaminated with fluoride and water level is depleting. The project will benefit the general public by contributing to the long-term improvement of water supply system and community livability in the project area. The potential adverse environmental impacts are mainly related to the construction period, which can be minimized by the mitigating measures and environmentally-sound engineering and construction practices..</li> </ol> <p>Recommendations:</p> <ol style="list-style-type: none"> <li>1. The draft IEE for <b>Package WW/BK/02B is recommended for ADB Clearance for inclusion in bid and contract documents.</b></li> <li>2. Cleared draft IEE to be disclosed on project website (PMU and PIU). If project website is not available, the summary of the draft IEE should be posted in public notice boards.</li> <li>3. The relevant information in the draft IEE should also be disclosed to stakeholders and affected people in a timely manner in language/form they understand.</li> <li>4. Continuous meaningful consultations including information dissemination on project GRM should be conducted during detailed engineering design, construction and if required, until O&amp;M.</li> <li>5. Contractor should submit to PMU and PIU the SEMP/s upon completion of the detailed engineering design. NO works should be allowed until the SEMP/s is/are cleared and confirmed to satisfactorily meet the requirements of Government of India laws, rules and</li> </ol>	

	<b>Activity</b>	<b>Status</b>	<b>Detailed Comments and Further Actions Required</b>
		<p>regulations and ADB SPS.</p> <p>6. PMU to submit to ADB the final IEE together with Contractor's SEMP/s for review and disclosure. The final IEE should include detailed information on how the abovementioned further actions are conducted/met.</p> <p>7. Reporting of SEMP/s implementation and environmental safeguards should be: (i) Contractor to PIU to be done on the monthly basis; (ii) PIU to PMU to be done every three months; and (iii) PMU to ADB every six months.</p>	

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Ninette Pajarillaga, ADB SAUW Environment Specialist

Documents/References: 1. Draft IEE Sent by WBDSIP Project Director (19 September 2018)  
2. ADB REA Checklist prepared by Prabhatish  
3. Scoping Checklist ("No Mitigation Checklist") prepared by Prabhatish