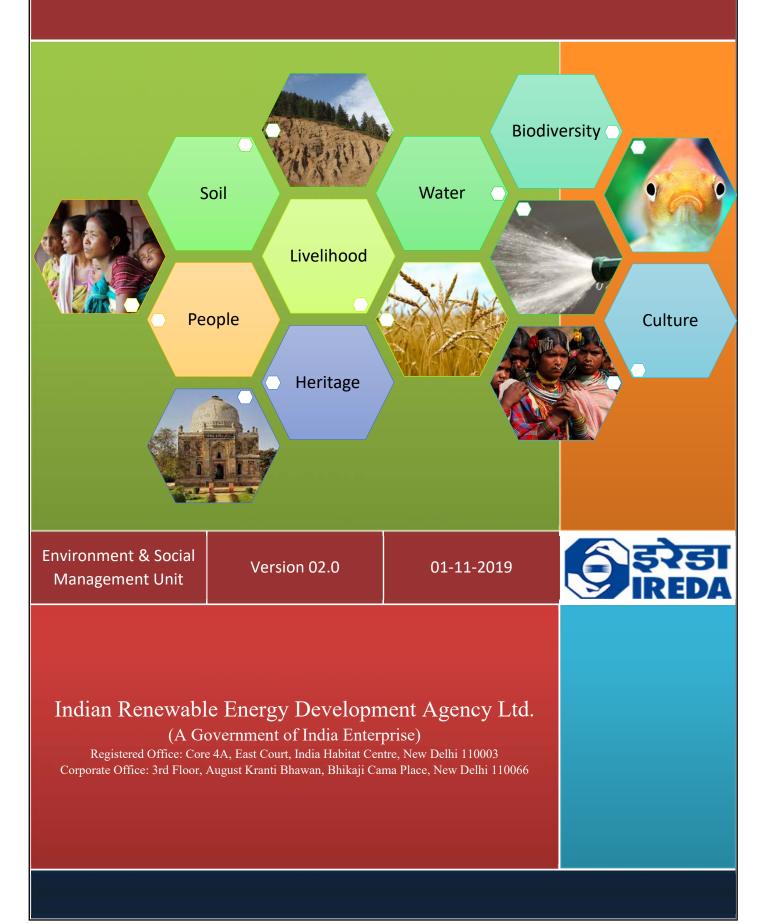
Environmental & Social Management System



Note to Users:

This document is the ESMS Manual describing the process and procedures by which IREDA staff review, approve, and monitor Renewable Energy projects that are subject to IREDA loan financing. Certain procedures are solely for "internal" use within IREDA, others require input by the borrowers, and some are mainly applicable to the contractors/consultants engaged by the borrowers to design, build and/or operate their projects.

To help streamline and clarify those processes relevant for the various involved parties, various ESMS documents have been grouped into separate annexes, depending on purpose and user:

- **Annex A** contains policies and reference documents that provide general guidance on IREDA's ideology for environmental and social safeguards
- **Annex B** contains the information required from borrowers at the time of loan application on environmental and social issues related to the project
- **Annex C** consists of E&S screening checklists that must be completed by IREDA, based on the information gathered during the Project Appraisal /Due Diligence.
- Annex D contains the Project Categorisation Forms
- **Annex E** contains generic and sector specific E&S loan covenants that form part of the loan agreement with the borrower and need to be adhered to during the project construction, operation and de-commissioning
- **Annex F** contains E&S monitoring formats to facilitate standard reporting on E&S issues during the project cycle
- Annex G consists of grievance redressal mechanism for resolving E&S issues
- Annex H is the legal register of regulations pertaining to E&S issues in India

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GLOSSARY OF ACRONYMS AND TERMS

Acronym	Term		
ADB	Asian Development Bank		
AfD	Agency Françoise de Development (French Development Agency)		
CST	Concentrated Solar Technology		
CtE	Consent to Establish		
DD	Due Diligence		
DPR	Detailed Project Report		
E&S	Environment and Social		
EHS	Environment, Health and Safety		
EIA	Environmental Impact Assessment		
EMP	Environmental Management Plan		
ESAP	Environmental and Social Action Plan		
ESDD	Environmental & Social Due Diligence		
ESIA	Environmental and Social Impact Assessment		
ESMS	Environmental & Social Management System		
GOI	Government of India		
H&S	Health and Safety		
HR	Human Resources		
IFC	International Finance Corporation		
IPP	Indigenous People's Plan		
IREDA	Indian Renewable Energy Development Agency		
JICA	Japan International Cooperation Agency		
KfW	Kreditanstalt für Wiederaufbau (German Credit Institute for Reconstruction)		
MNRE	Ministry of New and Renewable Energy		
PV	Photovoltaic solar technology		
PS	Performance Standard of IFC		
RE	Renewable Energy		
REA	Rapid Environmental Assessment		
RP	Resettlement Plan		
SEP	Stakeholder Engagement Plan		
ToR	Terms of Reference		
WB	World Bank		

DEFINITIONS

Term	Meaning	
Action Plan	A plan of action acceptable to borrower to achieve compliance with the IREDA environmental and social standards.	
Borrower	A company/developer that has applied for or received funding directly from IREDA – same as Client.	
Client	See Borrower.	
Detailed Project Report (DPR)	To be submitted together with Project Loan Application	
EHS Guidelines	World Bank Group Environmental Health and Safety Guidelines.	
Environmental & Social Action Plan (ESAP)	A plan that proposes measures to manage aspects identified in the ESDD to acceptable levels in line with the requirements of IREDA and its lenders.	
Environmental & Social De Diligencie (ESDD)	An assessment and analysis of environmental and social risks and opportunities associated with a project to ensure that such risks would not present a potential liability to IREDA. (Some lenders use the abbreviation SEDD).	
Environmental & Social Impact Assessment (ESIA)	The process of identifying, predicting, evaluating and mitigating the biophysical, social, and other relevant effects of project proposals prior to major decisions being taken and commitments made.	
Environmental & Social Management System (ESMS)	The ESMS is the set of policies, procedures, tools and internal capacity at IREDA to identify and manage the environmental and social risks posed by the funded projects.	
Excluded Activity	Any business or activity listed on the Harmonised IREDA Exclusion List (Annex A2).	
Legal Register	A compilation of applicable legislations	
Lenders	Institutions that offer Lines of Credit to IREDA	
Lines of Credit	Finance facilities utilized to finance operations that fulfil the institutional conditions set by the lenders and meets international best practice.	
Project	The RE project of the borrower to be funded by IREDA.	

1. INTRODUCTION

1.1 Background

The Indian Renewable Energy Development Agency (IREDA) is a Non-Banking Financial Institution (NBFC), operating under the administrative control of Ministry of New and Renewable Energy (MNRE). It is a Public Limited Government company and has been granted 'Mini Ratna' status by the Government of India.

IREDA was incorporated on 11th March 1987 as a Public Limited Company u/s 617 of the Companies Act, 1956 and it received Certificate of Commencement of Business with effect from 21st April 1987. IREDA provides term loans for renewable energy (RE) projects. The sectors eligible for assistance from IREDA are:

- Solar Energy (including both Photovoltaic (PV) and Concentrated Solar Thermal (CST));
- Solar Rooftop
- Decentralised/Off grid RE
- Solar Irrigation Pumps
- Wind Energy;
- Small Hydro Power (below 25 MW);
- Biomass and Co-generation;
- Energy Efficiency and Energy Conservation;

Renewable energy projects are considered as the most environmentally benign and socially acceptable projects. However, IREDA being a responsible financial institution has adopted Environmental and Social Safeguards Policy (E&S Policy). As a result of this policy, Environmental and Social Management System (ESMS) has been developed to identify and mitigate whatever minimal impacts the projects have.

IREDA's financing stems from its own sources, lines of credit from international funding institutions (ADB, AfD, EIB, JICA, KfW, World Bank etc.) and bonds. The international lenders have their own established environmental and social (E&S) policies and guidelines that must be followed when funding projects using the respective lines of credit. This system will also help IREDA to conform with the lenders' E&S policies and guidelines.

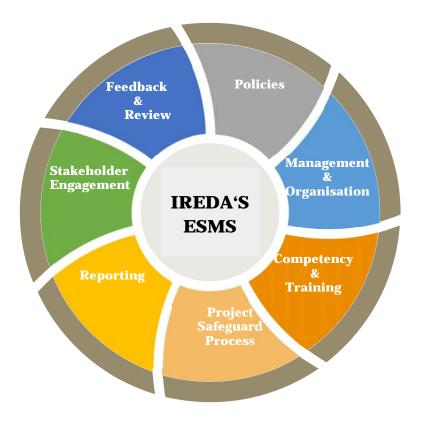
The ESMS is primarily based on International Finance Corporation (IFC) Performance Standards, ADB Safeguard Policy Statement (2009), World Bank's E&S Framework and World Bank Group's General Environmental Health and Safety Guideline (EHSG) as well as the EHS Sector Guidelines. ESMS is designed to be "universally applicable" (as far as feasible) to address the various lender requirements; the same basic procedures described in this ESMS will therefore be applied regardless of the funding source. The requirements of the ESMS are also in line with applicable Indian laws and regulations at national, regional and local levels.

Note: Since this ESMS incorporates the requirements of several lenders, some of the terminologies used herein may differ from those used in the various E&S policies and guidelines of the lenders. The terminologies are explained in the Definitions section at the beginning of this ESMS Manual; where applicable, further explanations are also given later in the footnotes of the text.

1.2 Overview of ESMS Structure

The main building blocks of the ESMS include policies, identification of risks and impacts, management programs, organizational capacity and competency, emergency preparedness and response, stakeholder engagement, monitoring and review.

These elements are integrated in IREDA's project financing mechanism as applicable throughout its process of project application, screening, and due diligence before a loan is granted, as well as within borrowers' obligations in monitoring and reporting after the loan has been sanctioned. As shown in *Figure 1.1* below, the ESMS reflects a combination of the ADB Safeguard Policy Statement, IFC PS1 elements and the IREDA project flow process.



1.3 Applicable Environmental and Social Safeguard Aspects

This ESMS is designed to be comprehensive and "universally applicable" to address the various lender requirements. In order for this to be achieved, IREDA will ensure that all loan applications are reviewed and evaluated for following safeguards:

- Indian laws and regulations applicable to E&S topics and IREDA funding sectors as specified in the E&S Legal Register (Annex H);
- Lender-specific E&S reporting requirements; and
- IREDA's E&S Categorisation Guidelines (Annex B1).

Moreover IREDA will ensure that all loan applications are reviewed and evaluated for following safeguards:

1. Environmental

a. Soil Quality, Erosion etc.

- b. Air Quality
- c. Water scarcity, efficiency, contamination etc.
- d. Waste disposal
- e. Noise and Traffic
- f. Bio-diversity, Flora and Fauna etc.
- g. Cultural, religious, historical heritage

2. Social & Community

- a. Land Acquisition
- b. Resettlement and Rehabilitation
- c. Gender Parity
- d. Labour laws
- e. Livelihood, economic displacement
- f. Occupational Health & Safety
- g. Community Health & Safety

3. Indigenous

- a. Ethnic Minorities
- b. Scheduled Tribes
- c. Customary Beliefs and Practices
- d. Traditional means of livelihood

2. POLICIES

2.1 Overview

There is a commitment at the top management level within IREDA to ensure the development, establishment and maintenance of the ESMS. This commitment is reflected in policies that are developed by IREDA and approved by the Board of Directors. They are declarations of the Agency's E&S objectives and principles guiding the IREDA funded activities.

2.2 Purpose of Policies

The policies describe IREDA's philosophy and approach to managing E&S risks and impacts in its projects.

2.3 Commitment

IREDA has adopted the Environmental & Social Safeguards Policy (Annex A1) under which IREDA is committed to:

- **1.** Ensure that the borrowers comply with all relevant E&S policies, laws, and regulations of the GoI and states of India. Additionally, they also remain responsive to E&S requirements of the lenders wherever a lender's line of credit is involved. This can be achieved by following the processes stipulated in this ESMS;
- **2.** Achieve a balance between developmental imperatives, environmental sustainability and social well-being in its operations and give due importance to E&S management considerations in appraising and financing RE projects to avoid, or where avoidance is not possible, minimize, and mitigate adverse environmental and social impacts and risks, if any;
- **3.** Integrate assessments to identify and evaluate the E&S impacts, risks, and opportunities of the projects into its business operations and risk management analysis;
- **4.** Take informed financing / funding decisions based on robust categorization of projects according to E&S risk levels, ascertained through preliminary screening of E&S aspects and, if and where required, commensurate with the scale of the project via E&S impact assessment studies;
- **5.** Work with the clients to get them to consider project-related E&S management risks in their projects and, if such risks are identified, ensure that the clients adequately address those risks during the life cycle of the project through adequate E&S management systems and plans;
- **6.** Ensure E&S and relevant legal requirements are complied with by its projects. To the extent reasonably possible, IREDA will also ensure the requirements of the applicable international standards are met by the Borrowers.
- 7. Ensure that effective mechanisms are in place and in use for compliance with IREDA's E&S principles during project appraisal and implementation, and to undertake corrective actions, if required. This will include visits by IREDA representatives to proposed project sites as appropriate with the scale of the project and the project risks;
- **8.** Develop the ESMS to deliver the commitments under this policy and to monitor compliance with this policy across its project portfolio and periodically report back to its management and to its Lenders;

- **9.** Maintaining and improving the ESMS to deliver the commitments under this policy and to monitor compliance with this policy across its project portfolio and periodically report back to its management and to its Lenders;
- **10.** Ensure competent and functional Environmental & Social Safeguard Unit (ESSU) within IREDA to undertake the responsibilities of implementation of the ESMS across all sectors at project level, as well as emphasize on management review and reporting procedures;
- **11.** Continuously develop and improve institutional capacity and designate E&S professionals with adequate competence and experience to understand, assess and manage E&S impacts and risks associated with the projects which IREDA finances and provide necessary guidance/inputs to the clients to practice effective E&S management systems at project level; and
- **12.** Constant efforts towards gender equality and ensuring that its activities do not inappropriately impact the gender parity.
- 13. Communicate IREDA's E&S principles to external and internal stakeholders.

All IREDA policies and other elements of the ESMS are reviewed and updated periodically in order to ensure its continued applicability to IREDA's activities.

3. MANAGEMENT & ORGANISATION

The success of implementing this ESMS depends on the commitment of management and employees of the agency. It also relies on clearly defined roles, responsibilities, accountabilities and authority on E&S issues.

The organisation and structure of IREDA is described in Section 3.1 and illustrated in *Figure 3.1* below, and it can also be found on <u>IREDA's website</u>. Duties and responsibilities relating E&S issues for each of the roles within the IREDA organisation are described in Section 3.2.

3.1 Overview of IREDA's E&S Organisational Structure

IREDA is led by a Board of Directors that includes Whole Time Functional Directors, Part-Time Government Nominee Directors and Part-Time Non-Official Directors. The Committee of Directors (COD) consists of functional directors for finance and technical matters, and is chaired by the Chairman and Managing Director, who has the ultimate responsibility over the Agency and its operations. The Audit Committee of Board consists of a part time Director nominated by the government, internal and statutory auditors. A part time non-official Director, who is independent, sits in both COD and the Audit Committee of Board

The core functions of the company are supported by various departments, including the Vigilance Department, Human Resources (HR) Department, System Group, and Corporate Affairs & Company Secretariat Department.

Financial Director of IREDA oversees the Legal Department, Finance and Accounts Department and the Planning Group, while the Technical Director, oversees the Technical Services Department.

Responsibility for E&S matters lies with Environment & Social Safeguard Unit (ESSU) of the Technical Services Department. The board level responsibility for E&S lies with the Technical Services Director who reports to the Board.

Technical Services Department includes the following technical services areas:

- Wind;
- Hydropower;
- Solar Energy (including both PV and CST);
- Biomass & Cogeneration Energy;
- Energy Efficiency and New and Emerging Technologies (including waste to energy, offshore wind, biofuels etc.);
- Access to Energy/Off-Grid

Each technical service area is managed by a Sector Head or Technical Service Manager (e.g. Head of Wind and Hydro Energy Service). He or she is supported by officers in each sector or service areas (e.g. sector/service officers for Wind, etc.).

The ESSU has been established within the Technical Services Department as a cross-cutting unit supervising E&S affairs from all technical services or sectors. The ESSU is managed by the ESSU Manager, who is responsible for the compliance of IREDA with ESMS requirements. The ESSU Manager is supported by E&S Specialist.

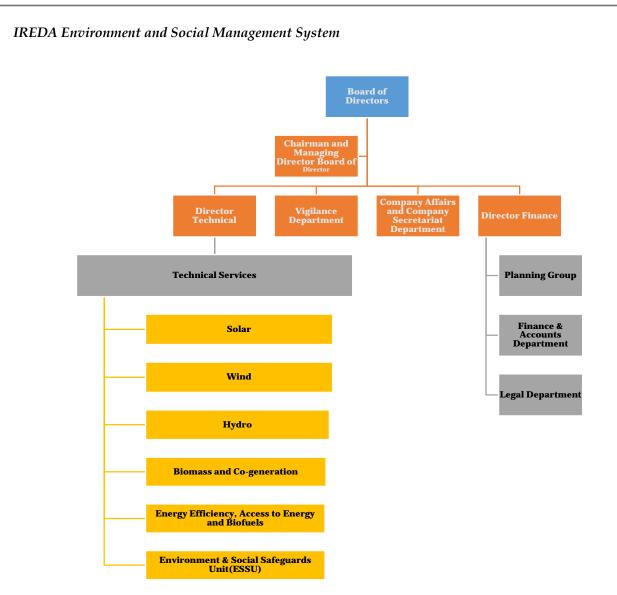


Figure 1: Organogram of IREDA

3.2 Roles & Responsibilities within ESMS

Role/Title	Duties & Responsibility related to E&S Management	
Chairman & Managing Director	Overall responsibility for Business Principles and ESMS at IREDA.	
Technical Director	 Overall responsibility for ESMS for Technical Services. ESMS reporting to the Board of Directors. Has the right to reject project's application for financing Responsible for managing E&S issues for projects within the Technical Services, including Wind & Hydro, Solar, Biomass & Cogeneration, and Energy Efficiency, Waste to Energy and Biofuels. 	
ESSU Manager	The role is held by the Deputy General Manager. Responsible for managing the ESSU. Report to Technical Director. Responsible for approving the project categorization forms. Has the right to recommend rejection of project's application for financing	

	Ensures agency-wide resources are made available for E&S management.	
Environmental & Social Specialist	 Position is held by Assistant Environment Officer. Reporting to the ESSU Manager. Support the ESSU Manager in managing the ESSU and coordinate issues on environment, social and health & safety. Implementation of ESMS (environmental, social, resettlement, stakeholder engagement, and health & safety aspects). Ongoing liaison at a project level with technical project leads and implementers. Direct oversight for projects' environmental and social issues, and prepare and submit all organizational review and monitoring reports, including the periodic (annual or semi-annual) environmental and 	
	social report to lenders (e.g. KfW, ADB, etc.) depending on the lender requirements for their lines of credit. Liaise with management to ensure adequate resources have been committed to allow for the effective implementation of this ESMS policy and procedures.	
Sector Heads	Supports the ESSU in getting requisite information/ documentation/ response from the project developer Responsible for reviewing the project categorization forms Checks/Supports ESSU in checking the compliance of E&S covenants before disbursements	
Project Team of Technical Services Department		
Regional Sector/Service Delegates	Periodic monitoring and reporting of E&S aspects, in accordance to the ESMS requirements.	
Financial Director	Responsible for the Legal Department, Planning Group, and Finance & Accounts (F&A) Department.	
Legal Compliance ManagerPosition held by Head of Legal Department Responsible for the IREDA's legal affairs including drafting agreem and covenants. Ensure the E&S covenants and agreed action plans are incorpor into the funding agreements. Providing legal inputs to identified E&S requirements.		
Head of Department Manager)HR (HR (HR (HR (HR Ensure where required, that the adequate and appropriate staff wi right expertise are hired to undertake the E&S roles and responsib within IREDA. Ensure capacity building of the staff in line with the roles responsibilities within ESMS		
Community Liaison Officer (CLO)		

	Responsible for co-ordinating the response to a complaint and serving as the main point of contact with the complainant. This includes receiving and reporting complaints, maintaining the complaints Log, supporting the resolution of Complaints; and liaison with the Complainant.
Complaint Owner	Part of the Grievance Redress Mechanism. A role of IREDA's client/borrower. Responsible for investigating and resolving a complaint within IREDA's client/borrower. This includes conducting investigations, proposing resolutions, implementing corrective actions and co-ordinating with the CLO and other parties. The Complaint Owner will usually be the manager of the unit that gave rise to the complaint.

4. PROJECT FINANCING PROCESS

IREDA follows a robust framework to ensure environmental and social safeguards in the projects funded by IREDA. This includes various forms/checklists and formats to be completed at different stages of the project. The E&S Safeguard Process is integrated within the project financing cycle of the project as shown in the figure below.



Figure 2: E&S Interventions in IREDA'S Loan Application Process

The key steps involved with IREDA's processing of a loan request by a borrower are defined schematically in the ESMS "Project Review Process Diagram" as shown in *Figure 1* above, and described further throughout Sections 4.1 to 4.6. The Project Review Process provides a clear step-by-step guidance for actions to be taken by IREDA's staff (or in some cases the borrower), beginning with the loan application and due diligence (comprising project screening & categorisation, and project review) to loan agreement and finally monitoring & reporting. The Project Review Process has cross-references to the various checklists, forms and reporting templates that may be required depending on the nature and risks of the RE project; all these necessary documents are included as Annexes to this ESMS Manual.

By following this Project Review Process, IREDA can ensure that its actions related to subproject funding are in conformance with the lender requirements, and with other relevant management systems of IREDA. The Review Process integrates all relevant Environmental and Social issues.

Note: the process depicted in the Diagram and described below reflects only the main activities related to management of E&S risks in line with the lender requirements; the overall process for loan application by borrowers is a more complex undertaking as described on the IREDA website.

Furthermore, some of the actions/steps described in the Diagram (and the related annexes) may or may not be applicable to a particular project, depending on the state of progress of the sub-project development at the time of initial loan application (eg early planning/Greenfield, construction, operation/expansion).

IREDA Environment and Social Management System

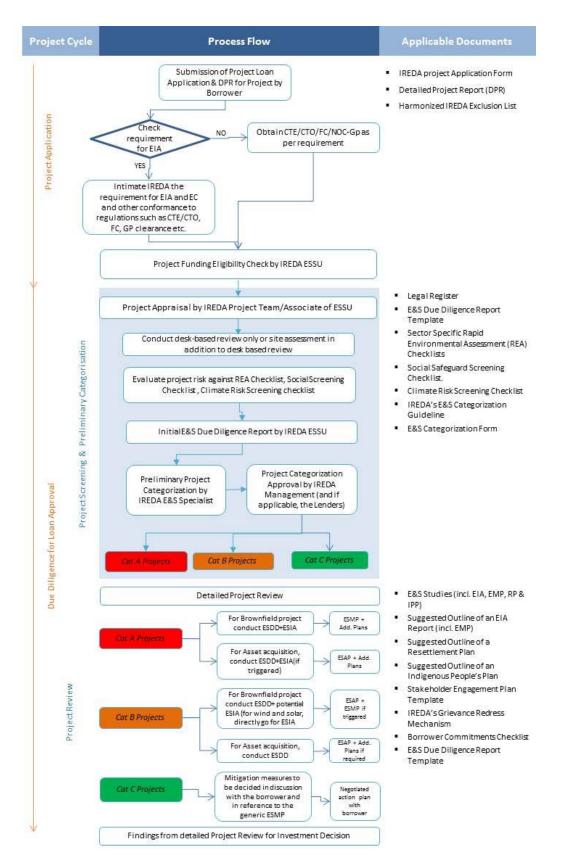


Figure 3: ESMS Project Review Process Diagram

IREDA Environment and Social Management System

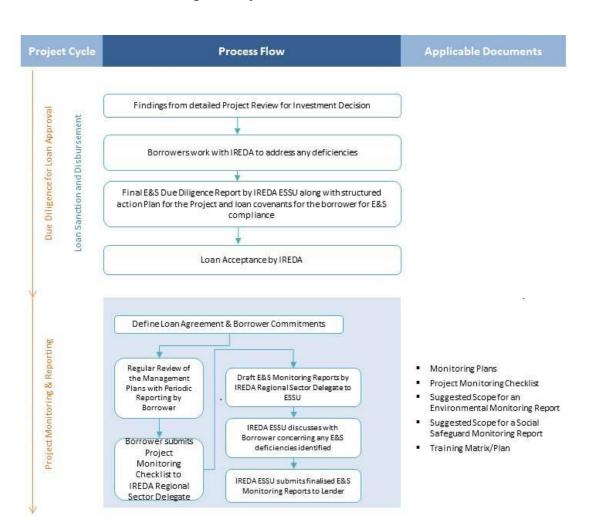


Figure 4: IREDA's ESMS process

4.1 Project Loan Application

The client (borrower) intending to obtain a loan from IREDA for a proposed RE project will need to submit an online Project Loan Application in a format defined by IREDA (as provided on the IREDA website for the respective RE technology).

The loan application format includes sector specific Questionnaire with respect to E&S aspects of the project (Annexure B). This questionnaire needs to be descriptively filled by the prospective borrower to help IREDA conduct the E&S due diligence of the project. The ESSU may seek further clarification/documentary evidences to the responses provided as and when required. The Project Loan Application shall be submitted along with a Detailed Project Report (DPR), which should include a chapter on environmental and social appraisal.

The borrower should also provide documents for demonstrating compliance with Indian national legislations applicable to the project and relevant to the renewable energy sectors. The key National Legislations have been listed in a Legal Register that also comprises of a brief summary of the legal requirements relevant to each E&S aspect (Annex F). Legal Register shall be regularly updated by IREDA to ensure its relevance. All borrowers are expected to comply with requirements set forth by relevant E&S laws and regulations.

4.2 Project appraisal (Due Diligence)

Questionnaires

The Project Loan Application is reviewed by the appraisal officer to determine the nature of the project. Projects associated with activities listed in the Harmonised IREDA Exclusion List (Annex A2) will not be eligible for funding by IREDA. Decision to include or exclude a project will be made by IREDA after the Project Loan Application is reviewed.

E&S Screening

The E&S Screening of the project will be conducted by ESSU on the basis of the information provided in the loan application and project site visit (if required). Information or field notes collected during the initial E&S due diligence will include (but not limited to) photographs, maps, GPS coordinates of the project site location, interview notes, comments to IREDA Exclusion List, identified information gaps on the screening checklists, etc.

If the information provided is insufficient, further clarification and additional information/documentation may be requested from the borrower. The borrower must provide all requested information to IREDA about the project, and should be able to demonstrate responsiveness with regard to the applicable E&S requirements. All the projects are required to me the national regulations/ requirements with respect to E&S issues, including those mentioned in the legal register (Annex F).

The information collected will be used to fill a set of sector-specific Environmental, Social and Indigenous People Screening Checklists (Annex B2). The screening checklists cover all the safeguard aspects mentioned in Section 1.3 of the ESMS Manual.

4.3 E&S Categorisation

The observations during the project screening will be summarised by the ESSU in the form of project categorization form (Annex C). The categorisation will be reviewed by the respective sector head and endorsed by the head of ESSU. The project E&S categorisation and findings of the E&S Screening process will be provided to the respective Sector head(s) for consideration in the project appraisal.

The projects are categorised into categories-A, B and C. The following table provides an understanding of the project categories.

Attribute	Category A	Category B	Category C
General Description	 impacts Impacts are sensitive, diverse or unprecedented. Area broader than the sites or facilities may get affected. 	fewer, site-specific, likely reversibleLikely to be less adverse	environmental and social impacts.Minimal impacts may be temporary and only site specific.Easily and fully mitigated
Assessment Requirements	• Compliance to E&S regulatory requirement	• Compliance to E&S regulatory requirement	• Compliance to E&S regulatory requirement

Table 1: Project Categorization

Attribute	Category A	Category B	Category C
	 Full ESIA and additional studies as necessary. Project specific ESMP to be prepared and implemented. 	required with limited scope	adopted and implemented in the interest of the project
Note:	even for commissioned	Solar and wind power projects are exempted from ESIA requirement by the Government of India. However, it may be required for large scale projects with wide footprints.	adopted by the project taking reference from generic plans suggested to borrowers.

Category A projects: Projects that are likely to have potential significant adverse environmental and/or social impacts that are sensitive, diverse or unprecedented, will be categorised as a "**Category A**" project. These projects may affect an area broader than the sites or facilities subject to physical works.

In addition to ensure applicable E&S legislations are complied with, borrower of Category A projects will be required to provide relevant E&S studies. A detailed Environmental and Social Impact Assessment (ESIA) needs to be conducted for the project. The assessment should include:

- Baseline study of site conditions (environmental, physical, biological, hydrological, geological, demographic, social, etc.)
- Onsite, offsite, cumulative and indirect impact assessment of the project
- Analysis of E&S pros and cons of feasible project alternative
- Stakeholder consultation
- Institutional analysis with respect to required roles, responsibilities and capacity

Based on the findings/ outcomes of the ESIA, some generic and some sector specific management plans shall be prepared, which may include the following:

Generic Plans

- Environment Management Plan (EMP)
- Occupational Health and Safety Plan
- Community Safety and Engagement Plan
- Grievance Redressal Mechanism (GRM)
- Indigenous Peoples Plan¹ (IPP, if applicable)
- Resettlement Action Plan² (RAP, if applicable)

Solar Energy Sector

• Water Procurement Plan (For cleaning of panels)

¹ Applicable if the project involves involuntary resettlement.

² Applicable if the project impact indigenous/scheduled tribal population.

• Panel Disposal Plan

Hydro Energy Sector

- Water Management Plan
- Traffic Management during construction

Wind Energy Sector

- Bird & Bat Management Plan
- Shadow Flicker Management Plan
- Noise Management Plan

Biomass/ Cogeneration Sector

- Emission Management
- Fly Ash Management

The plans as applicable to the type and scale of the project, need to be developed and implemented by the borrower. The borrower should consider seeking support from experienced environmental or social specialist for undertaking such work.

The impact assessment reports, and management plans as mentioned above including reports on public consultation shall be submitted by the borrower to IREDA for review. External ESDD may be undertaken by IREDA to identify the gaps and efforts will be made to ensure the required standards are met by project's E&S studies, even if it may mean that the existing studies may need to be updated. The management plans reviewed and accepted by IREDA need to be implemented by the borrower during the project construction, operation and decommissioning.

Category B projects: Projects with relatively less significant and limited environmental and/or social impacts compared to Category A projects are categorised as a **Category B** project. The mitigation measures for these projects can be more easily designed and implemented.

For these category B projects as well, all the national E&S regulations need to be met. In particular, requirements set forth by the Environmental Impact Assessment Notification 2006 and Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act (2013) shall be followed, if applicable. For sectors that are not covered by the EIA Notification 2006 (e.g. Wind and Solar, etc.), an E&S Due Diligence will be undertaken preferably through an external agency depending on the scale of the project. Some sector and technology specific studies may also be required such as noise impact, shadow flicker, bird/bat study, etc.

Depending on the finding of the studies and review by IREDA, E&S management plans need to be developed by the borrower. The generic management plans mentioned in the section above are applicable to almost all sectors and scales. However, the coverage and the extent of detailing may vary. Additionally, other sector specific plans may be required if the impact during the assessment/ study is substantial.

The management plans need to be implemented by the borrower during the project construction, operations and decommissioning.

Category C projects: The projects with minimal or no impacts are categorised into "**Category C**".

These projects also need to comply with the local laws and regulations related to E&S at minimum. IREDA on the basis of the observations during the internal project screening process may suggest some specific mitigation measures if required for identified E&S risks/impacts. The borrower may follow generic ESMP for the sector in the interest of the project.

Note: All sub-projects, regardless of RE technology or categorization, will normally involve some E&S impacts, Health & Safety aspects and interactions with local people, whether temporarily during construction or long-term during operations. Therefore, for each project (including Category C) the borrower will need to have in place the following plans (already mentioned in the section above):

- Environment Management Plan (EMP)
- Occupational Health and Safety Plan
- Community Safety and Engagement Plan
- Grievance Redressal Mechanism (GRM)

The borrower may refer to the suggestive plans provided by IREDA as guidance, for the development of required management plans. The grievance mechanism applies to project workers as well.

Often there are projects for which the extent of E&S risks may not yet be fully clear at this stage. In such cases, the E&S Specialist of IREDA should tentatively pick the more stringent E&S Categorisation (e.g. if unsure about A or B, choose A). If subsequently in the process it is found that the related E&S risks are indeed less significant, then the categorisation can be revised if appropriate (and the respective justification/rationale documented and filed accordingly).

4.4 Loan Sanction & Disbursement

Provided that the necessary E&S requirements are complied with, loan will be granted to projects following approval from the IREDA Management. To ensure the IREDA ESMS requirements are followed, borrower's E&S commitments (action plan) will be specified and defined in the loan agreement document (Annex C1 & C2). Borrower Commitment Checklist (Annex C3) is available as a tool for IREDA ESSU to track documents, management and monitoring plans obliged by the borrowers receiving funds from IREDA for Category A, B and C projects.

On-going monitoring will be conducted by IREDA's E&S Specialists to ensure compliance. For Category A projects and B projects (especially higher risk Category B projects), project site visit will be conducted to monitor the implementation of EMP, RP and IPP (as applicable).

4.5 Project Monitoring

Borrowers are required to monitor and report project's E&S performance on a regular basis with respect to the loan covenants and commitment checklist. Additional project-specific risks and impacts should also be considered. Selected areas of concern are monitored and evaluated against established key environmental and social development measurements and indicators.

From the first disbursement and during the operational phase of the project, the IREDA officials would monitor and evaluate the E&S progress and performance of the borrower in line with the funding agreement. Monitoring, among other issues, aims to ensure that the borrower complies with the E&S covenants stipulated in the loan agreement and ensure

ongoing compliance with the national and local legal requirements, and where applicable international best practises.

Monitoring also ensures that the action plan, mitigation and management measures identified in the E&S appraisal are implemented, and where the recommended management measures are ineffective or inadequate, corrective alternatives are identified and agreed.

Such information is to be submitted to IREDA (at least) once a year. Category A or higher risk Category B projects may be required to provide monitoring reports more frequently (six month for first two years and then annually). The sector specific formats for the monitoring reports is provided as Annex F of this document.

IREDA may conduct visit to the project sites, to ensure the compliance to the E&S requirements, implementation of the E&S management plans and ascertain the credibility of the information provided in the monitoring reports.

Borrowers are obliged to report project's E&S performance on a regular basis with respect to the loan conditions and commitment checklist. Additional project-specific risks and impacts should also be considered. Selected areas of concern are monitored and evaluated against established key environmental and social development measurements and indicators.

Monitoring

From the first disbursement and during the operational phase of the project, the IREDA officials would monitor and evaluate the E&S progress and performance of the borrower in line with the funding agreement. Monitoring, among other issues, aims to ensure that the borrower complies with the E&S conditions stipulated in the loan agreement and ensure ongoing compliance with the national and local legal requirements, and where applicable international best practises. This can be done in consultation with E&S specialists.

Monitoring also ensures that the action plan, mitigation and management measures identified in the E&S appraisal are implemented, and where the recommended management measures are ineffective or inadequate, corrective alternatives are identified and agreed. In addition, the IREDA ESSU will provide assistance in building institutional capacity of the borrower with regard to E&S performance of the project.

For IREDA funded projects, the borrowers are required to monitor compliance with loan conditions, commitments and specific monitoring requirement identified during screening and impact assessment. Such information is to be submitted to IREDA (at least) once a year. Category A or higher risk Category B projects should report more frequently (six monthly for first two years and then annually).

Environmental and social aspects relevant to the specific renewable energy sector may be captured by following defined monitoring plans. IREDA defined monitoring plans include the following:

- Bird Monitoring Plan;
- Bat Monitoring Plan;
- Water Monitoring Plan;
- Shadow Flicker Monitoring Plan;
- Noise Monitoring Plan.

4.6 Other Borrower Commitments

Relevant Laws & Regulations

Key Indian national legislations applicable to E&S aspects and relevant to renewable energy sectors have been identified. They are listed in a Legal Register that also comprises of a brief summary of the legal requirements relevant to each E&S aspect (Annex F). All borrowers (for project Category A, B & C) are expected to comply with requirements set forth by relevant E&S laws and regulations. IREDA's approach towards Gender Equality is defined in Annex-I, the borrowers are expected to include gender consideration during project planning and implementation on similar lines.

To ensure the relevance of the E&S Legal Register, it should be updated regularly by the IREDA ESSU.

Stakeholder Engagement & Communication

Stakeholders are persons or groups who are directly or indirectly affected by a project, as well as those who may have interests in a project and/or the ability to influence its outcome, either positively or negatively. They can include affected communities located near a project, particularly those subject to actual or potential project-related risk and/or adverse impacts on their physical environment, health or livelihoods. How those stakeholders are engaged can determine the success of a project's implementation, as it forms the basis for managing a project's environmental and social impacts. A detailed consultation process is required and all engagement with stakeholders must be conducted in line with IREDA's Environmental & Social Management Policy.

A Stakeholder Engagement Plan (SEP) is required to be developed and implemented for each project on an appropriate scale. A SEP should be scaled to the project risks and be tailored to the characteristics of the affected persons or communities. Template of a SEP can be found in Annex D3.

5. IREDA REPORTING TO LENDERS

This reporting somewhat distinct from the Project Review Process described above in Section 5 is the periodic reporting of IREDA to its stakeholders. IREDA's stakeholders with respect to E&S reporting will include (but not limited to) IREDA's lenders, international development finance institutions, investors, etc. Most lenders have requirements for systematic annual (or semi-annual) reporting on the E&S performance of those projects subject to funding by its funds.

The information provided by the borrowers in the form of project monitoring reports form the basis of the reporting. IREDA will compile, consolidate and summarise the information provided by its borrowers and customise it for the concerned stakeholders. The final reporting may be in the form of:

- Periodic Reporting to the specific lenders
- Consolidated reporting as the part of IREDA's Annual Report
- Sustainability reporting at agreed intervals

6. STAKEHOLDER ENGAGEMENT: GRIEVANCE REDRESSAL MECHANISM

IREDA lends funds for renewable energy projects and its borrowers are responsible for implementation of the projects on ground. Therefore, all the components of this ecosystem become direct or indirect stakeholders of IREDA. The figure below shows the possible stakeholders:



Figure 5: IREDA Stakeholder Mapping

The solid lines in the figure above indicate direct stakeholders whereas dashed lines indicate indirect stakeholder. IREDA's approach for engaging different stakeholders on E&S issues will vary with the stakeholder category, as discussed below.

- 1. Lenders/ Investors: IREDA's lenders include international development finance institutions such as World Bank, ADB, KfW, EIB, AFD, JICA, etc. There is a standard mechanism for engagement with different lenders. It includes regular meetings and progress reporting. IREDA also participates in the capacity building programs organised by the lenders. As far as the investors are concerned, there will be periodic performance reporting mechanism to communicate the E&S performance of the projects getting the investment.
- **2. Govt./Regulatory Agencies**: As a Non-Banking Finance Company under the administrative control of Ministry of New & Renewable Energy, IREDA needs to report to various government departments and agencies on different subjects. All these reporting requirements are regularly met as required.
- **3. Borrowers**/**Project Developers:** IREDA's borrowers or the project developers getting finances for project development, are one of its key stakeholders. Therefore, regular interactions are maintained with them as part of its core operations. Additionally, efforts are made to build capacity of borrowers on E&S issues and requirements. This is to be done through one to one interaction as well as group interactions. The group interactions may be in the form of capacity

building/information dissemination programmes. This will help them in ensuring the compliance with the E&S requirements of IREDA.

4. Project Affected People: The people affected by the project activity includes persons or groups who are directly or indirectly affected by a project, as well as those who may have interests in a project and/or the ability to influence its outcome, either positively or negatively. They can include affected communities located near a project, particularly those subject to actual or potential project-related risk and/or adverse impacts on their physical environment, health or livelihoods. How those stakeholders are engaged can determine the success of a project's implementation, as it forms the basis for managing a project's environmental and social impacts. A detailed consultation with them is expected from the project developer and all engagement with stakeholders must be conducted in line with IREDA's Environmental & Social Management Policy.

They are indirect stakeholder for IREDA and are directly connected to the borrower. IREDA will ensure that the client or the borrower will establish a mechanism to receive and facilitate resolution of stakeholders' concerns, complaints, and grievances about the project's safeguards performance (both environmental and social). In spite of that if there are any unresolved issues, they are free to approach IREDA as per the Grievance Redressal Mechanism (Annex G) described in the following section. Additionally, IREDA officials try to interact with the project affected people during the project site visits to get a fair understanding of the project performance.

5. Civil Society: This group includes the community organisations, group, NGOs, etc. that work for public interest. Each project site that is funded by IREDA is required to have a display board clearly mentioning that the project is funded by IREDA. Therefore, the civil society is free to get in touch with IREDA through preferred channel. Also, any grievances that remain unresolved by the project developer, may registered with IREDA through the grievance redressal mechanism (Annex G).

Grievance Redressal Mechanism (GRM)

IREDA stakeholder engagement approach is to work pro-actively towards identifying and addressing E&S issues before they become grievances. However, when grievances are reported they need to be addressed in a consistent and verifiable manner as part of the implementation of the ESMS.

The procedures stipulated by IREDA's Grievance Management Procedure (Annex G) will be followed. The stakeholders' will be informed about the mechanism through this manual.

7. FEEDBACK AND REVIEW

Any system is never perfect, there is always a scope for improvement. IREDA will continuously strive to improve this ESMS through updations as and when felt necessary. Various stakeholders are free to provide their comments, feedback and experiences with the current ESMS. Any of the following channels may be used for that purpose:

- Meetings
- Website Feedback Tab
- Email address
- Telephone
- Presentations at forums, training workshops and conventions
- Direct mail
- Surveys

Also, during the course of implementation of the ESMS, IREDA may experience the need for revising/ improving the procedures and system. Therefore, based on the feedback, comments, suggestions and experiences, IREDA will update the ESMS to make it more effective and at the sometime easy to comply with. The latest version of ESMS shall be uploaded on the website.

8. COMPETENCY & TRAINING

In relation to the defined ESMS management and organisation, designated responsible persons of the roles must have the required competency to oversee and to implement the management programs and plans specified by the management system.

Persons responsible for implementing ESMS should have the necessary background, experience and understanding of E&S issues. The IREDA staff who have a role to play in the implementation should have clear understanding of the ESMS processes and expectations from them. This shall be ensured through continuous training programs for the internal staff.

Training needs can be identified by assessing the required set of skills against the existing competencies. Training needs can also be triggered by past events, such as accidents, emergency situations, internal or external grievances, as well as audit deficiencies and/or requests from employees.

The trainings will be arranged and coordinated by the Human Resources (HR) in consultation with the ESSU of IREDA. The extent and frequency of periodic training should be commensurate with the roles and responsibilities of the staff in relation to the E&S review of projects and the implementation of this ESMS. Typically, shorter, high-level briefing sessions may be appropriate for senior managers, while more in-depth, hands-on training may be warranted for those staff conducting field assessments and detailed document review of the projects.

ANNEXURES OF IREDA'S ESMS

Indian Renewable Energy Development Agency

Annex A1: IREDA'S ESMS Policy

IREDA is committed for the development and implementation of projects that are environmentally and socially sustainable. As an environmentally informed and socially responsible financial institution, IREDA endeavours to avoid/minimize/mitigate adverse environmental and social impacts, if any.

The Indian Renewable Energy Development Agency (IREDA) is a Non-Banking Financial Institution (NBFC), operating under the administrative control of Ministry of New and Renewable Energy (MNRE). IREDA is committed to Renewable Energy development in the country.

For the above mentioned purpose, IREDA has adopted Environment and Social safeguards policy. The policy is devoted to:

- 1. Ensure that the borrowers comply with all relevant E&S policies, laws, and regulations of the GoI and states of India. Additionally, they also remain responsive to E&S requirements of the lenders wherever a lender's line of credit is involved. This can be achieved by following the processes stipulated in this ESMS;
- **2.** Achieve a balance between developmental imperatives, environmental sustainability and social well-being in its operations and give due importance to E&S management considerations in appraising and financing RE projects to avoid, or where avoidance is not possible, minimize, and mitigate adverse environmental and social impacts and risks, if any;
- **3.** Integrate assessments to identify and evaluate the E&S impacts, risks, and opportunities of the projects into its business operations and risk management analysis;
- **4.** Take informed financing / funding decisions based on robust categorization of projects according to E&S risk levels, ascertained through preliminary screening of E&S aspects and, if and where required, commensurate with the scale of the project via E&S impact assessment studies;
- **5.** Work with the clients to get them to consider project-related E&S management risks in their projects and, if such risks are identified, ensure that the clients adequately address those risks during the life cycle of the project through adequate E&S management systems and plans;
- **6.** Ensure E&S and relevant legal requirements are complied with by its projects. To the extent reasonably possible, IREDA will also ensure the requirements of the applicable international standards are met by the Borrowers.
- 7. Ensure that effective mechanisms are in place and in use for compliance with IREDA's E&S principles during project appraisal and implementation, and to undertake corrective actions, if required. This will include visits by IREDA representatives to proposed project sites as appropriate with the scale of the project and the project risks;
- **8.** Maintaining and improving the ESMS to deliver the commitments under this policy and to monitor compliance with this policy across its project portfolio and periodically report back to its management and to its Lenders;
- **9.** Ensure competent and functional Environmental & Social Safeguard Unit (ESSU) within IREDA to undertake the responsibilities of implementation of the ESMS across

all sectors at project level, as well as emphasize on management review and reporting procedures;

- **10.** Continuously develop and improve institutional capacity and designate E&S professionals with adequate competence and experience to understand, assess and manage E&S impacts and risks associated with the projects which IREDA finances and provide necessary guidance/inputs to the clients to practice effective E&S management systems at project level; and
- **11.** Constant efforts towards gender equality and ensuring that its activities do not inappropriately impact the gender parity.
- 12. Communicate IREDA's E&S principles to external and internal stakeholders.

This policy shall be applicable to all the projects supported by IREDA

Annex A2: Harmonized IREDA Exclusion List

IREDA will not fund any activity, production, use, distribution, business or trade involving:

- 1. Forced labour³ or child labour⁴.
- **2.** Activities or materials deemed illegal under host country laws or regulations or international conventions and agreements, or subject to international phase-outs or bans, such as:
 - i. Ozone depleting substances, PCBs (Polychlorinated Biphenyls) and other specific, hazardous pharmaceuticals, pesticides/herbicides or chemicals;
 - ii. Wildlife or products regulated under the Convention on International Trade in Endangered Species or Wild Fauna and Flora (CITES); or
 - iii. Unsustainable fishing methods (e.g. blast fishing and drift net fishing in the marine environment using nets in excess of 2.5 km in length).
- **3.** Cross-border trade in waste and waste products, unless compliant to the Basel Convention and the underlying regulations.
- 4. Destruction⁵ of High Conservation Value areas⁶.
- 5. Production or trade of radioactive materials⁷ and unbounded asbestos fibres⁸.
- 6. Pornography and/or prostitution.
- 7. Racist and/or anti-democratic media.
- 8. Production or trade in weapons and munitions⁹.
- 9. Commercial logging operations for use in primary tropical moist forest.
- **10.** Production or trade in wood or other forestry products other than from sustainably managed forest.
- **11.** In the event that any of these following products form a substantial part of a project's primary financed business activities¹⁰:
 - i. Alcohol beverages (except beer and wine);
 - ii. Tobacco;
 - iii. Weapons and munitions; or
 - iv. Gambling, casinos and equivalent enterprises.

⁶ High Conservation Value (HCV) areas are defined as natural habitats where these values are considered to be of outstanding significance or critical importance (see http://www.hcvnetwork.org).

⁷ This does not apply to the purchase of medical equipment, quality control (measurement) equipment or any other equipment where the radioactive source is understood to be trivial and/or adequately shielded.

⁸ This does not apply to purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.

⁹ This does not apply to project sponsors who are not substantially involved in these activities. "Not substantially involved" means that the activity concerned is ancillary to a project sponsor's primary operations.

¹⁰ For companies, "substantial" means more than 10% of their consolidated balance sheets or earnings. For financial institutions and investment funds, "substantial" means more than 10% of their underlying portfolio.

³ Forced labor means all work or service, not voluntarily performed, that is extracted from an individual under threat of force or penalty as defined by ILO conventions.

⁴ Persons may only be employed if they are at least 14 years old, as defined in the ILO Fundamental Human Rights Conventions (Minimum Age Convention C138, Art.2), unless local legislation specifies compulsory school attendances or the minimum age for working. In such cases the higher age shall apply.

⁵ Destruction means the (1) elimination or severe diminution of the integrity of an area caused by a major, long-term change in land or water use or (2) modification of a habitat in such a way that the area's ability to maintain its role is lost.

Annex A3: Definition of Environmental & Social Categorization

Environment: A project's environment category is determined by the category of its most environmentally sensitive component, including direct, indirect, induced, and cumulative impacts. Each proposed project is scrutinized as to its type, location, scale, sensitivity and the magnitude of its <u>potential</u> environmental impacts¹¹. The level of detail and comprehensiveness of the EIA are commensurate with the significance of the potential impacts and risks. The definition of the environmental categorization is defined as follows:

- **Category A.** A proposed project is classified as category A if it is likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented. These impacts may affect an area larger than the sites or facilities subject to physical works. An environmental impact assessment (EIA), including an environmental management plan (EMP), is required.
- **Category B.** A proposed project is classified as category B if its potential adverse environmental impacts are less adverse than those of category A projects. These impacts are site-specific, few if any of them are irreversible, and in most cases mitigation measures can be designed more readily than for category A projects.
- **Category C.** A proposed project is classified as category C if it is likely to have minimal or no adverse environmental impacts. No environmental assessment is required although environmental implications need to be reviewed.

Social: A project's involuntary resettlement category is determined by the category of its most sensitive component in terms of involuntary resettlement impacts. The involuntary resettlement impacts of an ADB-supported project are considered significant if 200 or more persons will experience major impacts, which are defined as (i) being physically displaced from housing, or (ii) losing 10% or more of their productive assets (income generating). The level of detail and comprehensiveness of the resettlement plan are commensurate with the significance of the potential impacts and risks. The definition of the involuntary resettlement categorization is defined as follows:

- **Category A.** A proposed project is classified as category A if it is likely to have significant involuntary resettlement impacts. A resettlement plan (RP), including assessment of social impacts, is required.
- **Category B.** A proposed project is classified as category B if it includes involuntary resettlement impacts that are not deemed significant.
- **Category C.** A proposed project is classified as category C if it has no involuntary resettlement impacts. No further action is required.

Indigenous People: A project's indigenous people's category is determined by the category of its most sensitive component in terms of impacts on indigenous peoples. The significance of impacts of an ADB-supported project on indigenous peoples is determined by assessing (i) the magnitude of impact in terms of (a) customary rights of use and access to land and natural resources; (b) socioeconomic status; (c) cultural and communal integrity; (d) health, education, livelihood, and social security status; and (e) the recognition of indigenous knowledge; and (ii) the level of vulnerability of the affected indigenous peoples community.

¹¹ Categorization is based on potential risks of a project, without taking into consideration of the mitigations employed.

The level of detail and comprehensiveness of the indigenous people plan (IPP) are commensurate with the significance of potential impacts on indigenous peoples. The definition of the indigenous people categorization is defined as follows:

- **Category A.** A proposed project is classified as category A if it is likely to have significant impacts on Indigenous Peoples. An Indigenous Peoples plan (IPP), including assessment of social impacts, is required.
- **Category B.** A proposed project is classified as category B if it is likely to have limited impacts on Indigenous Peoples.
- **Category C.** A proposed project is classified as category C if it is not expected to have impacts on Indigenous Peoples. No further action is required.

ANNEX B - INFORMATION REQUIRED FOR E&S SCREENING

Annex B1.1. E&S Questionnaire- Solar Rooftop Project

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (MW):	
2.	Grid Connection:	☐ Grid Connected ☐ Off grid
3.	Technology:	 Thin Film Monocrystalline Polycrystalline Any Other (Please Specify)
4.	Total Rooftop Space:	
5.	Geographical Coordinates(Lat, Long):	Latitude- °(N/S) Longitude- °(E/W)
6.	Project Status:	☐ Implementation yet to begin (planning phase)

Sr. No.	Parameter	Description
		Under Construction
		Commissioned (provide date of commissioning)
		☐ Other (specify)
7.	Rooftop Space procurement	Government Land: Allotment. Mention the lease periodyears
		Private: Self Owned
		Private: Willing seller.
		Private: Leased. Mention the lease tenor-
		years
8.	Previous space categorization	□ Residential
	(before the plant installation)	
		☐ Industrial
		Others. Please specify
9.	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) of the project?	
2.	Are there any community facilities in/around the project building? If yes, please name of the facility and specify the location?	Community center

Sr. No.	QUESTION	RESPONSE
3.	Is the access to any one of the above mentioned facilities affected, due to the project?	☐ Yes. Please mention the facility and how?
4.	Is there any indigenous/tribal population in/ around the project site?	☐ Yes. Provide details. ☐ No
5.	What are the measures being adopted to ensure the occupational health and safety during the project construction and operations?	Personnel Protective Equipment. Mention Health and Safety Trainings. Provide details Certifications such as OHSAS, etc. Provide details Company's Environment, Health and Safety Manual. Provide details or copy or EHS Policy Please specify
6.	What is the approximate number and source of labor hired by the owner or contractor? (local or migrant)	Local Migrant. Details of the arrangement for their lodging and other facilities? Both
7.	What is the arrangement for management of construction waste such as packaging material, etc and hazardous waste such as broken panels, etc? Provide a waste management plan.	
8.	What is the method for cleaning solar panels?	 Water hose Water Sprinkler Robotic Cleaning Dry Mopping Others. Mention the details
9.	What is the frequency of cleaning and estimated water consumption (kilo litre /year) for this purpose?	Frequency: cleaning cycles in a month Water Usage: kl per cleaning cycle
10	What is the source of	Ground Water. Please provide copy/status of permission for

Sr. No.	QUESTION	RESPONSE
	water to be used for cleaning? (procurement method as well as ultimate source from where water is coming)	
11.	Is there a provision/ plan for rain water harvesting?	☐ Yes. What is the status thereof?

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Contact No.:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- a. Environment Management Plan (Land, Water, Waste, etc)
- b. Occupational Health & Safety Plan

Email:

- c. Social Management and Community Health, Safety & Security Plan
- d. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.2. E&S Questionnaire- Ground Mounted Solar Power

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (MW):	
2.	Grid connection	☐ Grid Connected ☐ Off grid
3.	Technology:	 ☐ Thin Film ☐ Monocrystalline ☐ Polycrystalline ☐ Any Other (Please Specify)
4.	Total Area covered (Acres/ Hectares):	
5.	Previous Land Use of Project Area:	 Farming/plantation Human Habitation Commercial/Business operations Industrial Tree cover Unused Other

Sr. No.	Parameter	Description
6.	Geographical Coordinates(Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)
7.	Project Status:	 Implementation yet to begin (planning phase) Under Construction Commissioned (provide date of commissioning) Other (specify)
8.	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) /Environment and Social Management Plan (ESMP_(of the project?	☐ Yes, provide report ☐ No, are there plans to carry out the same?
2.	Land procurement	 Government Land: Allotment Private: Self Owned Private: Willing seller Private: Leased. Mention the lease tenure years

	Sr. No.	QUESTION	RESPONSE
	3.	categorization	 Agricultural. If Yes, has it been converted to Non-agricultural land? Provide the documentation for the same. Non Agriculture
			Residential Commercial
			☐ Industrial ☐ Others. Please specify
_	4.	Land Conversion: Has Agricultural land been converted to Non- Agricultural?	☐ Yes. Provide documentation ☐ No. State the reason
-	5.	Are there any community facilities in/around (within 500 m radius) the project site?	Any place of worship m
		If yes, please name of the facility and specify the distance from project boundary?	□ Pond m □ School m
			☐ Hospital m ☐ Others. Please specify
_	6.	Is the access to any one of the above mentioned facilties affected, due to the project?	☐ Yes. Please mention the facility and how?
-	7.	Is there any of these within 10 km radius of the project boundary?	
		If yes, please provide	

Sr. No.	QUESTION	RESPONSE
	details and the distance from site.	Primary forest
		□ National Park
		☐ Wetland/Water Body
		☐ Mangrove/ Estuary (in case of coastal projects)
		Special Biodiversity Rich Area
8.	Does the project require involuntary displacement of people?	☐ Yes. How many individuals/ families were displaced?
		□ No
9.	What is the distance of the nearest human settlement from the project boundary?(km)	
10	Are there any female workers in the project?	☐ Yes. Specify the number and kind of activities they are involved in.
		🗆 No
11.	Is there any indigenous/tribal population around the	☐ Yes. Provide details.
	project site?	□ No
12	What are the measures being adopted to ensure the occupational health	Personnel Protective Equipment. Mention
	and safety during the project construction and operations?	Health and Safety Trainings. Provide details
		Certifications such as OHSAS, etc. Provide details

Sr. No.	QUESTION	RESPONSE
		Company's Environment Health and Safety Policy/Manual. Provide details copy or EHS Policy
		☐ Others. Please specify
13	What is the approximate number and source of labor hired by the owner or contractor? (local or migrant)	□ Local □ Migrant. Details of the arrangement for their lodging and other facilities?
		Both
14	Basic facilities for the labor:	 Drinking Water. Mention details Sanitation. Mention details Others. Mention details
15	What is the arrangement for management of construction waste and packaging material?	
16	What is the arrangement for management of hazardous waste generated during operations such as broken panels, transformer oil, etc?	
	Provide a waste management plan for construction phase.	
17	What is the method for cleaning solar panels?	☐ Water hose ☐ Water Sprinkler
		☐ Robotic Cleaning

Sr. No.	QUESTION	RESPONSE
		Dry Mopping
		Others. Mention the details
18	cleaning and estimated	Frequency: cleaning cycles in a month Water Usage: kl per cleaning cycle
19	What is the source of water to be used for cleaning? (procurement method as well as ultimate source from where water is coming)	
20	Is there a provision/ plan for rain water harvesting? If yes, what is the status thereof?	

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

1. In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

1.1. Environment Management Plan (Land, Water, Waste, etc)

1.2. Occupational Health & Safety Plan

1.3. Social Management and Community Health, Safety & Security Plan

1.4. Grievance Redressal Plan

2. In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.3: E&S Questionnaire-Wind Power

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (MW):	
2.	Type of connection	☐ Grid Connected ☐ Off grid
3.	Rated Power of each Turbine (MW):	
4.	No. of turbines:	
5.	Total Area covered (Acres/ Hectares):	
6.	Previous (before installation of the project) land categorization, as per Government records	 Agricultural. If Yes, has it been converted to Non-agricultural land? Provide the documentation for the same. Non-Agricultural Government Residential Commercial

Sr. No.	Parameter	Description
		🗌 Industrial
		☐ Forest
		Others. Please specify
7.	Previous Land Use of Project Area: (<i>The purpose for which the project</i> <i>land was being used</i>)	☐ Agriculture ☐Human Habitation ☐ Commercial/Business operations ☐ Industrial ☐ Forest ☐ Unused ☐ Other
8.	Land Conversion: Has land conversion been executed?	☐ Yes. Provide documentation
		☐ No. State the reason
9.	Geographical Coordinates(Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)
10.	Project Status:	 Implementation yet to begin Under Construction Commissioned (provide date of commissioning) Other (specify)
11.	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA/Environment and Social Management Plan (ESMP) of the project?	
2.	Land procurement	Government Land: Allotment. Mention lease periodyears

Sr. No.	QUESTION	RESPONSE
		Private: Self Owned
		☐ Private: Willing seller.
		☐ Private: Leased. Mention the lease tenure-
		years
3.	Are there any community facilities in/around (within 500	Any place of worshipm
	m radius) the project site? If yes, please name the facility	Community centerm
	and specify the distance from project boundary?	□ Pondm
	project boundary.	Schoolm
		Hospitalm
		Others. Please specifym
4.	Is the access to any one of the above mentioned facilities affected, due to the project?	☐ Yes. Please mention the facility and how
		□ No
5.	Is there any of these within 10 km radius of the project boundary?	Physical Cultural/Religious Heritage Site m
	If yes, please provide details and the distance from site.	Primary forest
		Wildlife Sanctuarym
		□ National Parkm
		Wetland/Water Bodym
		Mangrove/ Estuary (in case of coastal projects)m
		Special Biodiversity Rich Aream
12.	Does the project require involuntary displacement of people?	☐ Yes. How many individuals/ families were displaced?
		□ No
13.	What is the distance of the nearest human settlement from the project boundary?(m)	
14.	Is there any indigenous/tribal population around the project site?	Yes. Provide details. No

	Sr. No.	QUESTION	RESPONSE
	15.	What are the measures being adopted to ensure the occupational health and safety during the project construction and operations?	
			 Certifications such as OHSAS. Provide details Company's Environment, Health and Safety
			Policy/Manual. Provide details copy or EHS Policy
			Others. Please specify
	16.	What is the number and source of labor hired by the owner or	□ Local
		contractor? (local or migrant)	☐ Migrant. Details of the arrangement for their lodging and other facilities?
			□ Both
	17.	Are there any female workers in the project?	☐ Yes. Specify the number and kind of activities they are involved in
			🗌 No
	18.	Basic facilities for the labor:	Drinking Water. Mention the details
			Sanitation. Mention the details
			☐ Others. Mention the details
	19.	Does the project require any	Yes. Provide details
		blasting? If yes, please provide details of the permission obtained.	□ No
	20.	Does the project area fall under any bird migratory route?	☐ Yes. Provide details and what are the measures being taken to prevent bird or bat strikes against rotor blades?
			□ No
	21.	What is the distance of the nearest airport from the project site?	
-	22.	Is the aviation clearance required? If yes, provide documents.	☐ Yes. Provide details
	23.	What is the distance of the closest national highway or state highway from the turbines?	

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- a. Environment Management Plan (Land, Water, Waste, etc)
- b. Occupational Health & Safety Plan
- c. Social Management and Community Health, Safety & Security Plan
- d. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.4: E&S Questionnaire - Biomass Power

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (MW):	
2.	Grid connection	☐ Grid Connected ☐ Off grid
3.	What is the type and percentage of feedstock?	□Bagasse% □Coal% □ Municipal Solid Waste% □ Rice Husk% □ Others. Please specify
4.	Rated Power of each Turbine (MW):	
5.	Total Area used by the project (Acres/ Hectares):	
6.	Previous (before installation of the project) land categorization, as per	Agricultural. If Yes, has it been converted to Non- agricultural land? Provide the documentation for the same.

IREDA Environment and Social Management System
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Sr. No.	Parameter	Description
	Government records	 Non-Agricultural Government (Mention the lease period) Residential Commercial Industrial Forest (Provide documents for the same) Others. Please specify
7.	Previous Land Use of Project Area: (<i>The purpose for which the project land was being used</i>)	 Farming/plantation Human Habitation Commercial/Business operations Industrial Tree cover Unused Other
8.	Land Conversion: Has land conversion been executed?	☐ Yes. Provide documentation ☐ No. State the reason
9.	Geographical Coordinates	Latitude- °(N/S) Longitude- °(E/W)
10.	Project Status:	 Design Construction Expansion Commissioning Operation Other (specify)
11.	Associated Facilities in and outside project area (like transmission line, labor camp, etc.)	

	QUESTION	RESPONSE
1.	Environment and Social	Yes, provide reportNo, are there plans to carry out the same?

	QUESTION	RESPONSE					
2.	Land procurement	Government Land: Allotment					
		Private: Self Owned					
		Private: Willing seller.					
		☐ Private: Leased. Mention the lease tenor-					
		years					
3.	Are there any community	Any place of worshipm					
	facilities in/around (within 500 m radius) the project site? If yes, please name the facility	Community centerm					
	and specify the distance from project boundary?	Pondm					
	project boundary.	Schoolm					
		Hospitalm					
		Others. Please specifym					
4.	Is the access to any one of the above mentioned facilities affected, due to the project?						
		🗌 No					
5.	Is there any of these within 10 km radius of the project	Physical Cultural/Religious Heritage Site					
	boundary? If yes, please provide details	☐ Wildlife Sanctuarym					
	and the distance from site.	🗌 National Parkm					
		Wetland/Water Bodym					
		☐ Mangrove/ Estuary (in case of coastal projects)m					
		Special Biodiversity Rich Aream					
6.	Does the project require involuntary displacement of	Yes. How many individuals/ families were displaced?					
	people?	□ No					
7.	What is the distance of the nearest human settlement from the project boundary?(Km)						
8.	Is there any indigenous/tribal	Yes. Provide details.					
	population around the project site?	□ No					

	QUESTION	RESPONSE					
9.	What are the measures being adopted to ensure the occupational health and safety during the project construction and operations?						
		 Certifications such as OHSAS. Provide details					
		☐ Others. Please specify					
10.	What is the number and source of labor hired by the owner or	Local					
	contractor? (local or migrant)	☐ Migrant. Details of the arrangement for their lodging and other facilities?					
		□ Both					
11.	Are there any female workers in the project?						
		□ No					
12.	Basic facilities for the labor:	☐ Water. Mention the details					
		□Sanitation. Mention the details					
		Others. Mention the details					
13.	What is the arrangement for management of fly ash during project operations? Provide details						
14.	What is the arrangement for water being discharged from cooling tower during project operations? Provide details						
15.	What is the arrangement for hazardous waste such as transformer oil etc. during project operations? Provide details						
16.	Does the project require any blasting?	☐ Yes. Provide details of the permission obtained. ☐ No					
17.	What are the measures taken to reduce polluting air emissions from the project?						
	· · ·	Electrostatic Precipitators					

	QUESTION	RESPONSE				
		☐ Others. Please specify				
18.	What is the stack height for flue gas discharge? What is the stack height requirement as per the pollution control board?					

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

- In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement
 - a. Environment Management Plan (Land, Water, Waste, etc)
 - b. Occupational Health & Safety Plan
 - c. Social Management and Community Health, Safety & Security Plan
 - d. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.5: E&S Questionnaire – Mini Hydro Power (≤2 Mw)

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (kW):	
2.	Grid Connection:	☐ Grid Connected ☐ Off grid
3.	No. of turbines:	
4.	Rated power of each turbine(kW/MW):	
5.	Total Area used by the project(Sq. mtrs/ Acres/ Hectares):	
6.	Geographical coordinates(Lat, Long):	Latitude- °(N/S) Longitude- °(E/W)
7.	Previous (before installation of the project) land categorization, as per Government records	Agricultural. If Yes, has it been converted to Non- agricultural land? Provide the documentation for the same.

Sr. No.	Parameter	Description
		□ Non-Agricultural
		Government
		□ Residential
		□ Commercial
		🗌 Industrial
		Forest
		Others. Please specify
8.	Previous Land Use of Project Area: (<i>The purpose for which the</i> <i>project land was being used</i>)	 Farming/plantation Human Habitation Commercial/Business operations Industrial Tree cover Unused Other
9.	Land Conversion: Has land conversion been executed?	Yes. Provide documentation
		□ No. State the reason
10	Project Status:	 Implementation yet to begin (planning phase) Under Construction Commissioned (provide date of commissioning) Other (specify)
11.	Associated Infrastructure(productive loads, evacuation infrastructure etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) or Environment Social Management Plan(ESMP) of the project?	☐ Yes, provide report ☐ No, are there plans to carry out the same?

Sr. No.	QUESTION	RESPONSE					
2.	Land procurement	 Government Land: Allotment Private: Self Owned Private: Willing seller. Private: Leased. Mention the lease tenure- years 					
3.	Are there any community facilities in/around (within 500 m radius) the project site? If yes, please name the facility and specify the distance from project boundary?	 Any place of worshipm Community centerm Pondm Schoolm Hospitalm Others. Please specifym 					
4.	Is the access to any one of the above mentioned facilities affected, due to the project?	☐ Yes. Please mention the facility and how					
5.	Does the project require involuntary displacement of people?						
6.	Is there any of these within 10 km radius of the project boundary? If yes, please provide details and the distance from site.	Primary forest					
7.	Does the project require involuntary displacement of people?	☐ Yes. How many individuals/ families were displaced? 					

Sr. No.	QUESTION	RESPONSE				
		□ No				
8.	What is the distance of the nearest human settlement from the project boundary?(m/km)					
9.	Is there any indigenous/tribal population around the project site?	Yes. Provide details				
10.	What are the measures being adopted to ensure the occupational health and safety during the project construction and operations?					
11.	What is the number and source of labor hired by the owner or contractor? (local or migrant)					
12.	Are there any female workers in the project?	☐ Yes. Specify the number and kind of activities they are involved in				
13.	Does the project require any blasting?	☐ Yes. Please provide details/documents of the permission obtained				
14.	Does the project require felling of trees?	☐ Yes. Please provide the number of trees? 				
15.	Is there any compensation being paid for felling of trees?	☐ Yes. Please provide the details? ☐ No				
16.	What are the other ancillary facilities developed for the project? How much area is involved in developing each of such facilities?	Office Spacesq. m Accommodation/Labour campsq. m				

IREDA	Environm	ient and	l Social	l Mana	gement	System

Sr. No.	QUESTION	RESPONSE						
		Access Road			km			
		Transmission	line			_km		
		Others						
17.	What is the length of the downstream section of the river that will get dewatered?(m/km)							
18.	Do the downstream communities depend on the river water for any of the domestic activities or livelihood?	□ Yes. 	Please	provide	the	details?		
19.	Will the project impact downstream water quality in terms of dissolved oxygen, toxicity, sediment load, etc.?		Please	provide	the	details?		
20.	Is the NOC from fisheries department obtained?	□ Yes.	Please	provid	le	documents.		
21.	Are there any other power projects upstream or downstream of the river or deriving water from the same river basin? If yes,				names	and-		

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Mention the contact details of the Local Forest Official: Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

- In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement
 - 1. Environment Management Plan (Land, Water, Waste, etc)
 - 2. Occupational Health & Safety Plan
 - 3. Social Management and Community Health, Safety & Security Plan
 - 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.6: E&S Questionnaire - Run Of River Hydro Power

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (kW):	
2.	Grid Connection:	☐ Grid Connected ☐ Off grid
3.	No. of turbines:	
4.	Rated power of each turbine (kW/:	
5.	Total Area used by the project (Sq. mtrs/ Acres/ Hectares):	
6.	Geographical coordinates (Lat, Long):	Latitude- °(N/S) Longitude- °(E/W)
7.	Previous (before installation of the project) land categorization, as per Government records	Agricultural. If Yes, has it been converted to Non- agricultural land? Provide the documentation for the same.

Sr. No.	Parameter	Description
		 Non-Agricultural Government (Mention the lease period) Residential Commercial Industrial Forest (Provide documents for the same) Others. Please specify
8.	Previous Land Use of Project Area: (<i>The purpose for which the</i> <i>project land was being used</i>)	☐ Farming/plantation ☐Human Habitation ☐ Commercial/Business operations ☐ Industrial ☐ Tree cover ☐ Unused ☐ Other
9.	Land Conversion: Has land conversion been executed?	Yes. Provide documentation No. State the reason
10	Project Status:	 Implementation yet to begin (planning phase) Under Construction Commissioned (provide date of commissioning) Other (specify)
11.	Associated Infrastructure (productive loads, evacuation infrastructure etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA/Environment and	

Sr. No.	QUESTION	RESPONSE
	Social Management Plan (ESMP) of the project?	
2.	Land procurement	 Government Land: Allotment Private: Self Owned Private: Willing seller. Private: Leased. Mention the lease tenureyears
3.	Are there any community facilities in/around (within 500 m radius) the project site? If yes, please name the facility and specify the distance from project boundary?	Community centerm Pondm
4.	Is the access to any one of the above mentioned facilities affected, due to the project?	☐ Yes. Please mention the facility and how
5.	Does the project require involuntary displacement of people?	☐ Yes. How many individuals/ families were displaced? ☐ No
6.	Is there any of these within 10 km radius of the project boundary? If yes, please provide details and the distance from site.	
7.	Does the project require	☐ Yes. How many individuals/ families were displaced?

Sr. No.	QUESTION	RESPONSE
	involuntary displacement of people?	
		□ No
8.	What is the distance of the nearest human settlement from the project boundary?(m/km)	
9.	Is there any indigenous/tribal population around the project site?	☐ Yes. Provide details
10	What are the measures being adopted to ensure the occupational health and safety during the project construction and operations?	□ Health and Safety Trainings. Provide details □ Certifications such as OHSAS. Provide details
		 Company's Environment Health and Safety Policy/Manual. Provide details copy or EHS Policy Others. Please specify
11.	What is the number and source of labor hired by the owner or contractor? (local or migrant)	 Local Migrant. Details of the arrangement for their lodging and other facilities? Both
12	Provision of basic facilities for the labour	Drinking water Sanitation Others
13	Are there any female workers in the project?	☐ Yes. Specify the number and kind of activities they are involved in
14	Does the project require any blasting?	☐ Yes. Please provide details/documents of the permission obtained
15.	Does the project require felling of trees?	☐ Yes. Please provide the number of trees?
16	Is there any compensation	Yes. Please provide the details?

Sr. No.	QUESTION	RESPONSE
	being paid for felling of trees?	
17.	Does the project require material quarrying? If yes, what is the location of quarry and distance from the project site? Attach permissions	project site?
18	What is the arrangement for muck disposal? What is the area of muck disposal site and its distance from power house?	project site?
19	What are the other ancillary facilities developed for the project? How much area is involved in developing each of such facilities?	Consistent of the second seco
		Others
20	What is the length of the downstream section of the river that will get dewatered?(m/km)	
21	What is the required minimum flow to be maintained in the downstream de-watered channel? How much is the actual flow being maintained?(percentage of original flow or m ³ /s)	
22	Do the downstream communities depend on the river water for any of the domestic activities or livelihood?	☐ Yes. Please provide the details? ☐ No
23	Will the project impact downstream water quality in terms of dissolved oxygen, toxicity, sediment	Yes. Please provide the details?

Sr. No.	QUESTION	RESPONSE	
	load, etc.?	No	
24	Will the project involve peaking operations that may result in alternating low and high flows downstream of the dam?	☐ Yes. Mention 	details
25	Does the project create any kind of barrier for the migratory land or aquatic fauna?	☐ Yes. Mention details and the mitigations be	ing adopted
26	Is the NOC from fisheries department obtained?	☐ Yes. Please provide 	documents.
27	Are there any other power projects upstream or downstream of the river or deriving water from the same river basin? If yes, provide details.	capacity	and

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Mention the contact details of the Local Forest Official: Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Email:

Contact No.:

Date:

Note:

- In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement
 - 1. Environment Management Plan (Land, Water, Waste, etc)
 - 2. Occupational Health & Safety Plan
 - 3. Social Management and Community Health, Safety & Security Plan
 - 4. Grievance Redressal Plan

• In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.7: E&S Questionnaire – Reservoir Based Hydro Power

A. Borrower Information

Application Registration Number (ARN)

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (kW):	
2.	Grid Connection:	☐ Grid Connected ☐ Off grid
3.	No. of turbines:	
4.	Rated power of each turbine(kW/MW):	
5.	Total Area used by the project(Sq. mtrs/ Acres/ Hectares):	
6.	Geographical coordinates(Lat, Long):	Latitude- °(N/S) Longitude- °(E/W)
7.	Previous(before installation of the project) land categorization, as per Government records	Agricultural. If Yes, has it been converted to Non- agricultural land? Provide the documentation for the same.

Sr. No.	Parameter	Description
		 Non-Agricultural Government Residential Commercial Industrial Forest Others. Please specify
8.	Previous Land Use of Project Area: (<i>The purpose for which the</i> <i>project land was being used</i>)	 ☐ Agriculture ☐ Human Habitation ☐ Commercial/Business operations ☐ Industrial ☐ Forest ☐ Unused ☐ Other
9.	Land Conversion: Has land conversion been executed?	☐ Yes. Provide documentation ☐ No. State the reason
10	Project Status:	 Implementation yet to begin (planning phase) Under Construction Commissioned (provide date of commissioning) Other (specify)
11	Associated Infrastructure (productive loads, evacuation infrastructure etc.)	

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) of the project?	☐ Yes, provide report ☐ No, are there plans to carry out the same?
2.	Land procurement	Government Land: Allotment

Sr. No.	QUESTION	RESPONSE
		 Private: Self Owned Private: Willing seller. Private: Leased. Mention the lease tenor- years
3.	Are there any community facilities in/around (within 500 m radius) the project site? If yes, please name the facility and specify the distance from project boundary?	Community centerm Pondm
4.		☐ Yes. Please mention the facility and how
5.	Does the project require involuntary displacement of people?	☐ Yes. How many individuals/ families were displaced? ☐ No
6.	Is there any of these within 10 km radius of the project boundary? If yes, please provide details and the distance from site.	 Unregulated river Physical cultural/religious heritage site Wildlife Sanctuary National Park Range of endangered or threatened animals Wetland/Water body Special Biodiversity Rich Area Area used by indigenous peoples Mangrove/ Estuary (in case of coastal projects)
7.	Does the project require involuntary displacement of people?	Yes. How many individuals/ families were displaced?
8.	What is the distance of the nearest human settlement	□ No

Sr. No.	QUESTION	RESPONSE		
	from the project boundary?(m/km)			
9.		Yes. Provide details.		
	indigenous/tribal population around the project site?	□ No		
10	What are the measures being adopted to ensure	Personnel Protective Equipment. Mention		
	the occupational health and safety during the project construction and	Health and Safety Trainings. Provide details		
	operations?	Certifications such as OHSAS. Provide details		
		Company's Health and Safety Manual. Provide details copy		
		☐ Others. Please specify		
11.	What is the number and source of labor hired by the	Local		
	owner or contractor? (local or migrant) Migrant. Details of the arrangement for their lodging other facilities?			
		□ Both		
12	Are there any female workers in the project?	☐ Yes. Specify the number and kind of activities they are involved in		
		□ No		
13.	Does the project require any blasting?	☐ Yes. Please provide details/documents of the permission obtained		
		□ No		
14	Does the project require felling of trees?	☐ Yes. Please provide the number of trees? 		
		No		
15.	Is there any compensation being paid for felling of trees?	Yes. Please provide the details?		
		□ No		
16	Does the project require material quarrying? If yes, what is the location of	☐ Yes. What is the location of quarry and distance from the project site?		
	quarry and distance from the project site?	□ No		
17.	What is the arrangement for muck disposal? What is	☐ Yes. What is the location of quarry and distance from the project site?		

Sr. No.	QUESTION	RESPONSE	
	the area of muck disposal site and its distance from power house?	🗌 No	
18	What are the other ancillary facilities developed for the project?	□Office Space m	sq.
	How much area is involved in developing each of such facilities?	Accommodation	-
	identifies.	Access Road Others	
19.	What is the length of the downstream section of the river that will get dewatered?(m/km)		
20	What is the required minimum flow to be maintained in the downstream de-watered channel? How much is the actual flow being maintained?(percentage of original flow or m ³ /s)		
21,	Do the downstream communities depend on the river water for any of the domestic activities or livelihood?	☐ Yes. Please provide	the details?
22	Will the project impact downstream water quality in terms of dissolved oxygen, toxicity, sediment load, etc.?	☐ Yes. Please provide ☐ No	the details?
23	Does the project involve creation of water storage	☐ Yes. What is the size/area of	the reservoir?
	reservoir and/or dam, which will result in flooding of additional land?	🗌 No	
24	Will the project involve peaking operations that	Yes. Mention	details
	may result in alternating low and high flows downstream of the dam?	🗌 No	
25	Does the project involve diversion of water from one river basin to the	Yes. Mention	details
	other?	□ No	

Sr. No.	QUESTION			RESPO	NSE	
26	Does the project create any kind of barrier for the migratory land or aquatic fauna?		Yes.		Mention	details
27	Is the NOC from fisheries department obtained?		Yes.	Please	provide	documents.
28	Are there any other power projects upstream or downstream of the river or deriving water from the same river basin? If yes, provide details.	capacity	Yes.	Provide	names	and -

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Mention the contact details of the Local Forest Official: Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- 1. Environment Management Plan (Land, Water, Waste, etc)
- 2. Occupational Health & Safety Plan
- 3. Social Management and Community Health, Safety & Security Plan
- 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.8. E&S Questionnaire – Solar Mini Grid

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (MW):	
2.	Technology:	 Thin Film Monocrystalline Polycrystalline Any Other (Please Specify)
3.	Capacity of the Battery Bank (AmpH):	
4.	Type of Battery:	 Lead Acid Lithium Ion Others, specify
5.	No. of batteries installed:	
6.	Total Area covered (Acres/ Hectares):	
7.	Previous Land Use of Project Area:	☐ Agricultural ☐ Non-Agricultural ☐ Commercial

Sr. No.	Parameter	Description
		☐ Residential ☐ Forest ☐ Government ☐ Other (specify)
8.	Geographical Coordinates (Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)
9.	Project Status:	 Implementation yet to begin (planning phase) Under Construction Commissioned (provide date of commissioning) Other (specify)
10.	Associated Infrastructure in and outside project area (like transmission line, productive loads etc.)	

C. Environment and Social Information

Sr. No.	QUESTION	RESPONSE	
1.	Has there been any Environment and Social Impact Assessment (ESIA) of the project?		
2.	Land procurement	 Government Land: Allotment Private: Self Owned Private: Willing seller. Private: Leased. Mention the lease tenor- years 	
3.	What is the land use in the vicinity (500 m) of project site? Kind of activities around the project site?	 Residential Agriculture Commercial Forest Others, specify	
4.	What is the distance of the nearest human settlement from the project boundary?		

Sr. No.	QUESTION	RESPONSE	
	(m/km)		
5.	Are there any female workers in the project?	☐ Yes. Specify the kind of activities they are involved in.	
		□ No	
6.	Is there any indigenous/tribal population around the project site?	☐ Yes. Provide details. ☐ No	
7.	What are the measures being adopted to ensure the occupational health and safety during the project installation and operations?		
8.	What is the number and source of labor hired by the owner or contractor? (local or migrant)		
9.	What is the frequency of cleaning and estimated water consumption for this purpose?		
10	What is the source of water to be used for cleaning?	 Ground Water Surface Water Body. Specify Private Water Tankers. Provide source of water for tankers Others. Provide details 	
11	What is the arrangement for disposal of broken panels?	 Panel Repair/replacement options from supplier. Provide details Training to operator. Please details Others. Provide details 	
12	What is the arrangement for disposal of batteries?	Training to operator in case of any battery issue. Provide details	

Sr. No.	QUESTION	RESPONSE	
		☐ Battery Repair/replacement/ buy back options with the manufacturer. Provide details	
		Arrangement with battery manufacturer/ registered recycler. Provide copy	
		Others. Provide details	
13	Is there a provision/ plan for rainwater harvesting? If yes, what is the status thereof?		

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Contact No.:

Name:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- 1. Environment Management Plan (Land, Water, Waste, etc)
- 2. Occupational Health & Safety Plan

Email:

- 3. Social Management and Community Health, Safety & Security Plan
- 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.9. E&S Questionnaire - Solar Home Lighting Systems

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (kW/MW):	
2.	Power Capacity of each SHS (kW):	
3.	Capacity of battery in each SHS (AmpH):	
4.	Number of Systems covered in the project:	
5.	Grid Connection	☐ Grid connected ☐ Off Grid
6.	Technology:	 Thin Film Monocrystalline Polycrystalline Any Other (Please Specify)
7.	Use of Project Building:	Residential Commercial Institutional

Sr. No.	Parameter	Description
		Other (specify)
8.	Geographical coordinates(Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)
9.	Project Status:	☐ Implementation yet to begin (planning phase)
		 Under Construction Commissioned (provide date of commissioning)
		Other (specify)
10.	Associated Infrastructure in and outside project area (like transmission line, productive loads etc.)	

C. Environment and Social Information

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) of the project?	
2.	Is there any indigenous/tribal population in/around the project area?	
3.	What are the measures being adopted to ensure the health and safety of the occupants?	 Health and Safety Awareness measures. Provide details Product/ Equipment safety manual. Provide copy Quality Certifications such as ISO/IEC/BIS/etc. Provide details Others. Please specify
4.	What is the arrangement for disposal of broken panels?	 Consumer awareness about steps to be followed in case of panel damage. Provide details

Sr. No.	QUESTION	RESPONSE
		Others. Provide details
5.	What is the arrangement for disposal of batteries?	Consumer awareness about steps to be followed in case of any battery issue. Provide details
		☐ Battery Repair/replacement/ buy back options for the consumer. Provide details
		☐ Approachable Customer Service Centre. Please provide contact details and location
		Arrangement with battery manufacturer/ registered recycler. Provide copy
		Others. Provide details

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- 1. Environment Management Plan (Land, Water, Waste, etc)
- 2. Occupational Health & Safety Plan
- 3. Social Management and Community Health, Safety & Security Plan
- 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.10: E&S Questionnaire- Solar Irrigation Pumps

A. Borrower Information

Application Registration Number (ARN):

Project Title:

Location:

Borrower:

Contact Details of Responsible Person for Environmental & Social Issues from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Total Power Capacity of Project (HP/kW):	
2.	No. of pumps under the project:	
3.	Type of connection	☐ Grid Connected ☐ Off grid
4.	PV Technology:	 Thin Film Monocrystalline Polycrystalline Any Other (Please Specify)
5.	Total Area covered through solar panels (Sq. mtrs):	
6.	Geographical coordinates(Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)

Sr. No.	Parameter	Description
7.	Project Status:	☐ Implementation yet to begin (planning phase)
		Under Construction
		Commissioned (provide date of commissioning)
		Other (specify)
8.	Associated Infrastructure (pump capacity and other details)	

C. Environment and Social Information

Sr. No.	QUESTION	RESPONSE
1.	What is the volume of water pumped and average number of	Water pumping capacity litre/hour
	operating hours for the pump?	No. of Operating Hours hrs/month
2.	What is the source of water which is being pumped?	Ground Water
		Canal
		River
		Others. Please specify
3.	What is the depth of the ground water level?	Water Table feet
4.	What is the categorization of the project block/Mandal / taluka/district with respect to ground water resources?	□ Safe
		🗌 Semi Critical
		□ Over Exploited
5.	Is the power generated from the solar panels being used for	Household electrification
	purposes other than pumping?	Productive loads
		Commercial loads
		☐ Others. Please specify
6.	Is the water being used for purposes other than irrigation?	□ Drinking
		☐ Sanitation
		Fisheries

Sr. No.	QUESTION	RESPONSE
		☐ Others. Please specify
7.	How was the water requirement being met prior to the	Manual Extraction
	being met prior to the implementation of the project?	Grid Connected power
		Diesel generator
		Others. Please specify
8.	Are the beneficiaries being	Yes. Specify how
	educated about judicious use of water?	☐ No. Specify the reason for not educating the beneficiaries about the same
9.	What are the measures being adopted to ensure the health and	
	safety of the users?	Product/ Equipment safety manual. Provide copy
		Quality Certifications of the equipment such as ISO/IEC/BIS/etc. Provide details
		☐ Others. Please specify
		Consumer awareness about steps to be followed in case of panel damage. Provide details
		☐ Panel Repair/replacement options to be consumer. Provide details
		Approachable Customer Service Centre. Please provide contact details and location
		☐ Others. Provide details
11.	Does the project involve installation of battery bank?	☐ Yes. What is the type and capacity?
		□ No
12.	What is the arrangement for disposal of batteries, in case installed?	Consumer awareness about steps to be followed in case of any battery issue. Provide details

Sr. No.	QUESTION	RESPONS	SE .
		Battery Repair/replacement/ the consumer. Provide details	buy back options for
		Approachable Customer Servi provide contact details and locat	
		Arrangement with battery ma recycler. Provide copy	anufacturer/ registered
		Others. Pr	rovide details
13.	Is there any indigenous/tribal population around the project site?	☐ Yes. Provide details	

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

- In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement
 - 1. Environment Management Plan (Land, Water, Waste, etc)
 - 2. Occupational Health & Safety Plan
 - 3. Social Management and Community Health, Safety & Security Plan
 - 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

Annex B1.11: E&S Questionnaire - Aerogenerators & Solar Wind Hybrid

A. Borrower Information

Application Registration Number (ARN)

Project Title:

Location:

Borrower:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1.	Type of project	☐ Aero-generators ☐ Solar Wind Hybrid
2.	Total Power Capacity of Project (kW):	
3.	Grid connection	☐ Grid Connected ☐ Off grid
4.	Solar panel Technology (if hybrid)	 ☐ Thin Film ☐ Monocrystalline ☐ Polycrystalline ☐ Any Other (Please Specify)
5.	Solar panel capacity(if hybrid)	
6.	Rated Power of each Wind Turbine (kW):	

Sr. No.	Parameter	Description
7.	Total number of wind turbines	
8.	Total Area covered:	
9.	Previous Land Category of Project Area:	☐ Agricultural ☐ Non Agricultural ☐ Commercial ☐ Residential ☐ Forest ☐ Government ☐ Other (specify)
10.	Geographical Coordinates(Lat, Long)	Latitude- °(N/S) Longitude- °(E/W)
11.	Project Status:	 Implementation yet to begin Under Construction Commissioned (provide date of commissioning) Others (specify)
12.	Associated Infrastructure in and outside project area (like transmission line, productive loads etc.)	

C. Environment and Social Information

Sr. No.	QUESTION	RESPONSE
1.	Has there been any Environment and Social Impact Assessment (ESIA) of the project?	 Yes, provide report No, are there plans to carry out the same?
2.	Land/roof-space procurement	 Government Land: Allotment Private: Self Owned Private: Willing seller. Private: Leased. Mention the lease tenor- years
3.	Previous land/space categorization (before the plant installation)	Agricultural. If Yes, has it been converted to Non- agricultural land? Provide the documentation for the same.

Sr. No.	QUESTION	RESPONSE
		☐ Residential
		Commercial
		☐ Industrial
		☐ Others. Please specify
4.	Land Conversion: Has Agricultural land been converted to Non-Agricultural?	☐ Yes. Provide documentation
		□ No. State the reason
5.	Are there any community facilities in/around (within 500 m radius)	Any place of worshipm
	the project site? If yes, please name of the facility	Community centerm
	and specify the distance from project boundary?	□ Pondm
	r Journal of Jo	Schoolm
		Hospitalm
		Others. Please specify
6.	Is the access to any one of the above mentioned options affected, due to the project?	☐ Yes. Please mention the facility and how.
		🗌 No
7.	Is there any of these within 10 km radius of the project boundary?	Physical Cultural/Religious Heritage Site
	If yes, please provide details and the distance from site.	☐ Wildlife Sanctuary
		□ National Park
		☐ Wetland/Water Body
		☐ Mangrove/ Estuary (in case of coastal projects)
		Special Biodiversity Rich Area
8.	Does the project require involuntary displacement of people?	
		🗌 No

Sr. No.	QUESTION	RESPONSE							
9.	What is the distance of the nearest human settlement from the project boundary? (km)								
10.	Are there any female workers in the project?	☐ Yes. Specify the kind of activities they are involved in.							
		□ No							
11.	Is there any indigenous/tribal population around the project site?	☐ Yes. Provide details. ☐ No							
12.	What are the measures being adopted to ensure the	Personnel Protective Equipment. Mention							
	occupational health and safety	Health and Safety Trainings. Provide details							
		Certifications such as OHSAS. Provide details							
		Company's Health and Safety. Provide details							
		Others. Please specify							
13.	What is the number and source of labor hired by the owner or	Local							
	contractor? (local or migrant)	☐ Migrant. Details of the arrangement for their lodging and other facilities?							
		□ Both							
14.	Basic facilities for the labor:	Drinking Water. Mention the details							
		Sanitation. Mention the details							
		Others. Mention the details							
15.	What is the arrangement for management of construction waste and packaging material?								
16.	What is the arrangement for management of hazardous waste generated during operations such as broken panels, transformer oil,								

Sr. No.	QUESTION	RESPONSE
	etc? Provide a waste management plan for construction phase.	
17.	What is the method for cleaning solar panels?	 □ Water hose □ Water Sprinkler □ Robotic Cleaning □ Dry Mopping
		Others. Mention the details
18.	What is the frequency of cleaning and estimated water consumption (kilo litre /year) for this purpose?	Frequency: cleaning cycles in a month Water Usage: kl per cleaning cycle
19.	What is the source of water to be used for cleaning? (procurement method as well as ultimate source from where water is coming)	□ Ground Water. Please provide copy/status of permission for ground water extraction. □ Private Water Tankers. Provide source of water for tankers □ Nearby Surface Water body. Provide details □ Others. Provide details
20.	What is the distance of the nearest airport from the project site?	

Mention the contact details of the Local Revenue Official/ Block Development Official- Name, Designation, Phone Number, Email ID and Address

Undertaking: I hereby declare and affirm that the information furnished above is true and correct to best of my knowledge and belief and nothing material has been concealed therein.

Name:

Email:

Contact No.:

Date:

Note:

• In case the project gets financing from IREDA, following documents need to be provided before first disbursement under the loan agreement

- 1. Environment Management Plan (Land, Water, Waste, etc)
- 2. Occupational Health & Safety Plan

- 3. Social Management and Community Health, Safety & Security Plan
- 4. Grievance Redressal Plan
- In case of any queries or clarifications, please contact the Environmental & Social Safeguards Unit of IREDA at Ruchika Drall <u>ruchikadrall@ireda.in</u> +91 11 26717400

ANNEX C: RAPID ENVIRONMENTAL & SOCIAL SCREENING

Annex C1: E&S Screening- Solar Rooftop

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1	Total Capacity of the Project:	
2	Technology:	
3	Total Area covered(Sq. mtrs/ Acres/ Hectares):	
4	Geographical Coordinates(Lat, Long)	
5	Project Status:	
6	Associated Facilities in and outside project area	

ENVIRONMENTAL SCREENING CHECKLIST

	SCREENING QUESTION	YE S	NO	REMARKS
A	Potential Environmental Impacts Will the Project cause			
1.	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
2.	Encroachment on precious ecology resulting in loss or damage to terrestrial or aquatic habitats (e.g., wetlands, sensitive or protected areas, fish breeding grounds, flora and fauna of economic/ medicinal value) or species of conservation significance.			
3.	Encroachment on historical/cultural monuments or areas?			
4.	Noise, vibration and dust from construction activities?			
5.	Damage to the local flora and crops due to cutting of trees to avoid shading?			
6.	Damage to the soil and water resources due to improper hazardous waste management of batteries and broken panels?			
7.	Air pollution due to diesel generator or any other conventional energy source?			

SOCIAL SCREENING CHECKLIST

Sr. No.	Probable Involuntary Resettlement Effects	YE S	NO	Not Know n	REMARKS
1.	Is the ownership status and current usage of land/roof to be acquired known? If yes, provide details.				
2.	Will there be involuntary land acquisition?				
3.	Will there be loss of shelter and residential land due to land acquisition if any?				
4.	Will there be loss of agricultural and other productive assets due to land acquisition if any?				
5.	Will there be losses of existing crops, trees, and fixed assets due to land acquisition if any?				
6.	Will there be change of income sources, businesses, enterprises or means of livelihood due to the project?				
8	Will people lose access to existing facilities or resources?				
9	Will the project cause any displacement of people? If yes, approximately how many?				
10	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or ethnic minorities)?				
11	Are there any aspects that may impact gender parity?				
12	Any impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
13	Risks and vulnerabilities related to occupational health and safety due to physical, electrical or fire hazards during construction, installation, operation, and decommission?				
14	Risks to community health and safety due to accidental and natural causes, especially where the structural elements or components of the project are accessible to the public?				

Sr. No.	Probable Involuntary Resettlement Effects	YE S	NO	Not Know n	REMARKS
15	Conflicts with respect to water use for panel cleaning?				
16	Structural risks of the building considering the present condition of the roof?				
17	Increased risk of fires or electrocution?				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and tribal people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES¹² IMPACT SCREENING CHECKLIST

¹² Indigenous People = Scheduled Tribe and Tribal People

Annex C2: E&S Screening- Ground Mounted Solar Power

A. Borrower Information

Application Registration Number (ARN)

Loan ID

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1	Total Power Capacity of Project (MW):	
2	Rated Power of each Module (kW):	
3	Total Area covered (Acres/ Hectares):	
4	Previous Land Use of Project Area:	
4	Geographical Coordinates(Lat, Long)	
5	Project Status:	
6	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

ENVIRONMENTAL SCREENING CHECKLIST

	SCREENING QUESTION	YE S	NO	REMARKS
A	Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas? If yes, provide the distance from the site.			
1	Physical cultural/ religious heritage site			
2	Legally protected area			
3	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human-made sites such as fish ponds, rice paddies, reservoirs and salt pans.)			
5	Vulnerable marine areas (in case of floating solar)			
В	Potential Environmental Impacts Will the Project cause			
1	Large scale change in land use pattern due to diversion of productive lands?			
2	Encroachment on precious ecology resulting in loss or damage to terrestrial or aquatic habitats (e.g., wetlands, sensitive or protected areas, fish breeding grounds, flora and fauna of economic/ medicinal value) or species of conservation significance.			
3	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
4	Encroachment on historical/cultural monuments or areas?			
5	Noise, vibration and dust from construction activities?			
6	Potential soil erosion due to the project?			
7	Damage to the local flora and crops due to cutting of trees to avoid shading?			
8	Damage to the soil and water resources due to improper management of broken panels?			
9	Contamination of soil and ground water resources due to improper battery management?			
10	A significant increase in local traffic during construction?			
11	Large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
12	Changes in flow regimes due to water abstraction from surface water or underground wells for panel cleaning?			

	SCREENING QUESTION	YE S	NO	REMARKS
13	Pollution of soil, water bodies and aquatic ecosystems from treatment plant?			
14	Soil/ water contamination due to use of hazardous materials or disposal of broken or damaged solar cells (photovoltaic technologies contain small amounts of cadmium, selenium and arsenic) during installation, operation and decommissioning?			
15	Industrial liquid (dielectric fluids, cleaning agents, and solvents) and solid wastes (lubricating oils, compressor oils, and hydraulic fluids) generated during construction and operations likely to pollute land and water resources?			
16	Visual impacts due to reflection from solar collector arrays resulting in glint or glare?			

SOCIAL SCREENING CHECKLIST

	Probable Social Impact	YE S	NO	Not Know n	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, provide details.				
3	Will there be involuntary land acquisition?				
4	Will there be change in land use? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in existing ROW?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of existing crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of income sources, businesses, enterprises or means of livelihood due to land acquisition?				
10	Will people lose access to natural resources, communal facilities or state facilities and resources?				
11	Will the project cause any displacement of people? If yes, approximately how many?				
12	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or tribal people?				
13	Are there any aspects that may negatively impact gender parity?				
14	Any negative impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
15	Social conflicts between local communities and migrant workers/camp followers?				
16	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during				

	Probable Social Impact	YE S	NO	Not Know n	REMARKS
	construction, installation, operation, and decommission?				
17	 Risks to community health and safety due to: a) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? b) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to the public? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and tribal people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES¹³ IMPACT SCREENING CHECKLIST

¹³ Indigenous People = Scheduled Tribe and Tribal People

Annex C3: E&S Screening- Wind Power

A. Borrower Information

Application Registration Number (ARN)

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower for Environmental & Social Issues:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1	Total Power Capacity of Project (MW):	
2	Rated Power of each Turbine (MW):	
3	Total Area covered (Acres/ Hectares):	
4	Previous Land Use of Project Area:	
5	Geographical Coordinates(Lat, Long)	
6	Project Status:	
7	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

ENVIRONMENTAL SCREENING CHECKLIST

	QUESTION	RESPONSE
A	Project Siting Is the Project area adjacent to or within any of the following Environmentally Sensitive Areas? If yes, provide the distance from the site.	
1.	Physical Cultural/ Religious Heritage Site	
2.	Legally Protected Area	
3.	Natural or Modified Habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?	
4.	Wetland (Lakes and Rivers, Underground Aquifers, Swamps and Marshes, Wet Grasslands, Peat Lands, Oases, Estuaries, Deltas and Tidal Flats, Mangroves and other Coastal Areas, Coral Reefs, and all Human- Made Sites Such as Fish Ponds, Rice Paddies, Reservoirs And Salt Pans.)	
5.	Vulnerable Marine Areas (in case of Floating Solar)	
6	Airport (or migratory route of avian species)	
B	Potential Environmental Impacts Will the Project cause	
1	Large scale change in land use pattern especially due to diversion of productive lands?	
2	Encroachment on precious ecology resulting in loss or damage to terrestrial or aquatic habitats (e.g., wetlands, sensitive or protected areas, fish breeding grounds, flora and fauna of economic/ medicinal value) or species of conservation significance?	
3	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?	
4	Encroachment on historical/cultural monuments or areas?	
5	Noise, vibration and dust from construction activities?	
6	Noise disturbance during operation due to the proximity of settlements or other features?	
7	Potential soil erosion due to the project?	
8	A significant increase in local traffic during construction?	
9	Large population influx during subproject construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation	

	QUESTION	RESPONSE
	systems)?	
10	Alteration of surface water flows by towers, roads or other facilities, resulting in erosion and stream sedimentation?	
11	Industrial liquid (dielectric fluids, cleaning agents, and solvents) and solid wastes (lubricating oils, compressor oils, and hydraulic fluids) generated during construction and operations likely to pollute land and water resources?	
12	A threat to bird or bat life due to collision with turbine and tower?	
13	Aviation or navigation hazards from turbines?	
14	Increased access to protected areas due to roads and transmission line corridor?	
15	Shadow flicker in nearby settlements or at other important local sites?	

SOCIAL SCREENING CHECKLIST

	Probable Social Impacts	YES	NO	Not Known	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in land use? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in the existing Right of Way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of income sources, businesses, enterprises or means of livelihood due to land acquisition?				
10	Will people lose access to natural resources, communal facilities or state facilities and resources?				

	Probable Social Impacts	YES	NO	Not Known	REMARKS
11	Will the project cause any displacement of people? If yes, approximately how many?				
12	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or tribal people?				
13	Are there any aspects that may negatively impact gender parity?				
14	Any negative impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
15	Social conflicts between local communities and migrant workers/camp followers?				
16	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				
17	 Risks to community health and safety due to: a) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? b) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to the public? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

Annex C4: E&S Screening- Biomass/Co-Gen Power

A. Borrower Information

Application Registration Number (ARN)

Loan ID

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

S.N.	Basic Project Design Data	Description
1	Rated Power Output (MW):	
2	Technology:	
3	Total Surface Area covered (Ha):	
4	Geographical Coordinates (Lat, Long)	
5	Project Status:	 Design Construction Expansion Commissioning Operation Closure Other (specify)
6	Associated Facilities in and outside project area	

	SCREENING QUESTION	YES	NO	REMARKS
Α	Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas? If yes, provide the distance from the site.			
1	Physical Cultural/ religious heritage site?			
2	Legally protected area?			
3	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human-made sites such as fish ponds, rice paddies, reservoirs and salt pans.)?			
B	Potential Environmental Impacts Will the Project cause			
1.	Large scale change in land use pattern especially due to diversion of productive lands by for instance cultivation of energy crops?			
2.	Encroachment on precious ecology resulting in loss or damage to terrestrial or aquatic habitats (e.g., wetlands, sensitive or protected areas, fish breeding grounds, flora and fauna of economic/ medicinal value) or species of conservation significance?			
3.	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
4.	Encroachment on historical/cultural monuments or areas?			
5.	Noise, vibration and dust from construction activities?			
6.	Noise, vibration and dust during operation due to the proximity of settlements or other features?			
7.	Large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
8.	Change in ground water level or flow regimes downstream of the water intake due to abstraction for cooling purposes			
9.	Pollution of water bodies and aquatic ecosystems from waste water treatment plant for boiler feed, bleed-off from cooling towers, boiler blow down and wash water and effluent from ash pond.			
10.	A significant increase in local traffic during construction?			
11.	Air emissions and air pollution harmful to human health and surrounding habitats due from the			

	SCREENING QUESTION	YES	NO	REMARKS
	biomass combustion?			
12.	Fugitive dust during transportation, unloading, storage, processing of coal and polluted run-off from coal storage			
13.	Industrial liquid (dielectric fluids, cleaning agents, and solvents) and solid wastes (lubricating oils, compressor oils, and hydraulic fluids) generated during construction and operations likely to pollute land and water resources?			
14.	Will the project cause conflict with the respect to the use and sourcing of feedstock sourcing?			

	Probable Social Impacts	YES	NO	Not Known	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in land use? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in the existing Right of Way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of income sources, businesses, enterprises or means of livelihood due to land acquisition?				
10	Will people lose access to natural resources, communal facilities or state facilities and resources?				
11	Will the project cause any displacement of people? If yes, approximately how many?				
12	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or tribal people?				
13	Are there any aspects that may negatively impact gender parity?				
14	Any negative impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
15	Social conflicts between local communities and migrant workers/camp followers?				
16	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				

	Probable Social Impacts	YES	NO	Not Known	REMARKS
17	 Risks to community health and safety due to: c) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? d) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to the public? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

Annex C5: E&S Screening- Mini Hydro (≤ 2MW)

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

S.N.	Basic Project Design Data	Description
1	Rated Power Output (MW):	
2	Technology:	
3	Total Surface Area covered (Ha):	
4	Project Status:	
5	Geographical coordinates	
5	Associated Facilities in and outside project area	

	SCREENING QUESTION	YE S	NO	REMARKS
Α	Project Location Is the dam and/or project facilities adjacent to or within any of the following areas? If yes, provide the distance from the site			
1.	Physical cultural/ religious heritage site?			
2.	Legally protected area/ buffer zone of protected area?			
3.	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4.	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human- made sites such as fish ponds, rice paddies, reservoirs and salt pans.)			
5.	Unregulated river?			
6.	Already regulated river?			
7.	Unique or aesthetically valuable land or water body?			
В	Potential Environmental Impacts Will the Project cause			
1.	Short-term construction impacts such as soil erosion, deterioration of water and air quality, noise and vibration from construction equipment?			
2.	Disturbance of large areas due to material quarrying?			
3.	Disposal of large quantities of construction spoils?			
4.	Clearing of large forested area for ancillary facilities and access road?			
5.	Impounding of a long river stretch?			
6.	Alternating high and low water flow downstream of the hydropower plant due to peaking operation?			
7.	Dewatering of a downstream river stretch? If yes, indicate the length of the dewatered river section.			
8.	Construction of permanent access road near or through forests or other natural habitats??			
9.	Creation of barriers for migratory terrestrial animals?			
10.	Loss of precious terrestrial and aquatic habitats due to reservoir impoundment and inundation, causing loss of forested areas, wildlife habitats and fish spawning / breeding grounds?			
11.	Deterioration of downstream water quality due to anoxic water from the reservoir and sediments due to soil erosion?			

	SCREENING QUESTION	YE S	NO	REMARKS
12.	Significant diversion of water from one basin to another?			
13.	Significant modification of flow regime due to reservoir storage of water, affecting downstream ecosystem, people's sustenance and livelihoods?			
14.	Loss or destruction of aesthetically unique and scenic land areas or water bodies?			
15.	Proliferation of aquatic weeds in reservoir and downstream, causing problems for irrigation systems, navigation and fisheries?			
16.	Depletion of dissolved oxygen by large quantities of decaying plant material, fish mortality due to reduced dissolved oxygen content in water, algal blooms causing successive and temporary eutrophication, growth and proliferation of aquatic weeds?			
17.	Erosion of river banks and scouring of riverbed below dam?			
18.	Downstream erosion of recipient river in trans-basin diversion?			
19.	Increased flooding risk of recipient river in trans- basin diversion?			
20.	Decreased groundwater recharge of downstream areas?			
21.	Draining of downstream wetlands and riparian areas?			
22.	Decline or change in fisheries below the dam due to changed flow pattern? Destruction of fish breeding grounds, and water quality changes?			
23.	Loss of migratory fish species due to barrier imposed by the dam?			
24.	Significant disruption of river sediment transport downstream due to trapping in reservoir?			
25.	Environmental risk due to potential toxicity of sediments trapped behind the dams?			
26.	Increased saltwater intrusion in estuary and low lands due to reduced river flows?			
27.	Cumulative effects due to the existence of other hydropower projects in the same river basin?			

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in landuse? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in existing Right of way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of existing crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of businesses or enterprises due to land acquisition?				
10	Will there be loss of income sources, businesses, enterprises and means of livelihoods due to land acquisition?				
11	Will people lose access to natural resources, communal facilities or state facilities and resources?				
12	Will the project cause any displacement of people? If yes, approximately how many?				
13	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, indigenous/ ethnic minorities?				
14	Are there any aspects that may impact gender parity?				
15	Any negative impact on the poor, women and children, Indigenous Peoples or other vulnerable groups?				
16	Uncontrolled human migration into the area made possible by access roads and transmission lines?				
17	Social conflicts between local laborers				

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
	and those from outside the area?				
18	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				
19	 Risks to community health and safety due to: e) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? f) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	N O	Not Know n	REMARKS
1	Are there socio-cultural groups present in or use the subproject area who may be considered as "tribes" (hill tribes, schedules tribes, tribal peoples), ", or "indigenous communities" in the subproject area?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the subproject area as belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target Indigenous Peoples?				
8	Will the project directly or indirectly affect Indigenous Peoples' traditional socio-cultural and belief practices? (e.g. child-rearing, health, education, arts, and governance)				
9	Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)				

Annex C.6: E&S Screening- Run Of River Hydro Power

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

S.N.	Basic Project Design Data	Description
1	Rated Power Output (MW):	
2	Rated Power of each Turbine (MW):	
3	Total Surface Area covered (Ha):	
4	Project Status:	
5	Geographical coordinates	
5	Associated Facilities in and outside project area	

	SCREENING QUESTION	YE S	NO	REMARKS
Α	Project Location Is the project adjacent to or within any of the following areas? If yes, provide the distance from the site			
1.	Physical cultural/ religious heritage site?			
2.	Legally protected area/ buffer zone of protected area?			
3.	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4.	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human- made sites such as fish ponds, rice paddies, reservoirs and salt pans.)			
5.	Unregulated river?			
6.	Already regulated river?			
7.	Unique or aesthetically valuable land or water body?			
В	Potential Environmental Impacts Will the Project cause			
1.	Short-term construction impacts such as soil erosion, deterioration of water and air quality, noise and vibration from construction equipment?			
2.	Disturbance of large areas due to material quarrying?			
3.	Disposal of large quantities of construction spoils?			
4.	Clearing of large forested area for ancillary facilities and access road?			
5.	Impounding of a long river stretch?			
6.	Alternating high and low water flow downstream of the hydropower plant due to peaking operation?			
7.	Dewatering of a downstream river stretch? If yes, indicate the length of the dewatered river section.			
8.	Construction of permanent access road near or through forests or other natural habitats??			
9.	Creation of barriers for migratory terrestrial animals?			
10.	Loss of precious terrestrial and aquatic habitats due to reservoir impoundment and inundation, causing loss of forested areas, wildlife habitats and fish spawning / breeding grounds?			
11.	Deterioration of downstream water quality due to anoxic water from the reservoir and sediments due to soil erosion?			
12.	Loss or destruction of aesthetically unique and scenic			

	SCREENING QUESTION	YE S	NO	REMARKS
	land areas or water bodies?			
13.	Decreased groundwater recharge of downstream areas?			
14.	Draining of downstream wetlands and riparian areas?			
15.	Increased saltwater intrusion in estuary and low lands due to reduced river flows?			
16.	Cumulative effects due to the existence of other hydropower projects in the same river basin?			

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in landuse? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in existing Right of way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of existing crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of businesses or enterprises due to land acquisition?				
10	Will there be loss of income sources, businesses, enterprises and means of livelihoods due to land acquisition?				
11	Will people lose access to natural resources, communal facilities or state facilities and resources?				
12	Will the project cause any displacement of people? If yes, approximately how many?				
13	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, indigenous/ ethnic minorities?				
14	Are there any aspects that may impact gender parity?				
15	Any negative impact on the poor, women and children, Indigenous Peoples or other vulnerable groups?				
16	Uncontrolled human migration into the area made possible by access roads and transmission lines?				
17	Social conflicts between local laborers				

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
	and those from outside the area?				
18	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				
19	 Risks to community health and safety due to: a) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? b) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	N O	Not Know n	REMARKS
1	Are there socio-cultural groups present in or use the subproject area who may be considered as "tribes" (hill tribes, schedules tribes, tribal peoples), ", or "indigenous communities" in the subproject area?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the subproject area as belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target Indigenous Peoples?				
8	Will the project directly or indirectly affect Indigenous Peoples' traditional socio-cultural and belief practices? (e.g. child-rearing, health, education, arts, and governance)				
9	Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)				

Annex C.7: E&S Screening- Reservoir Based Hydro Power

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

S.N.	Basic Project Design Data	Description
1	Rated Power Output (MW):	
2	Rated Power of each Turbine (MW):	
3	Total Surface Area covered (Ha):	
4	Project Status:	
5	Geographical coordinates	
6	Associated Facilities in and outside project area	

	SCREENING QUESTION	YE S	NO	REMARKS
Α	Project Location Is the project adjacent to or within any of the following areas? If yes, provide the distance from the site			
1.	Physical cultural/ religious heritage site?			
2.	Legally protected area/ buffer zone of protected area?			
3.	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4.	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human-made sites such as fish ponds, rice paddies, reservoirs and salt pans.)			
5.	Unregulated river?			
6.	Already regulated river?			
7.	Unique or aesthetically valuable land or water body?			
В	Potential Environmental Impacts Will the Project cause			
1.	Short-term construction impacts such as soil erosion, deterioration of water and air quality, noise and vibration from construction equipment?			
2.	Disturbance of large areas due to material quarrying?			
3.	Disposal of large quantities of construction spoils?			
4.	Clearing of large forested area for ancillary facilities and access road?			
5.	Large population influx during subproject construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
6.	Impounding of a long river stretch?			
7.	Alternating high and low water flow downstream of the hydropower plant due to peaking operation?			
8.	Dewatering of a downstream river stretch? If yes, indicate the length of the dewatered river section.			
9.	Construction of permanent access road near or through forests or other natural habitats??			
10.	Creation of barriers for migratory terrestrial animals?			
11.	Loss of precious terrestrial and aquatic habitats due to reservoir impoundment and inundation, causing loss of forested areas, wildlife habitats and fish spawning / breeding grounds?			

	SCREENING QUESTION	YE S	NO	REMARKS
12.	Deterioration of downstream water quality due to anoxic water from the reservoir and sediments due to soil erosion?			
13.	Loss or destruction of aesthetically unique and scenic land areas or water bodies?			
14.	Decreased groundwater recharge of downstream areas?			
15.	Draining of downstream wetlands and riparian areas?			
16.	Increased saltwater intrusion in estuary and low lands due to reduced river flows?			
17.	Cumulative effects due to the existence of other hydropower projects in the same river basin?			
18.	Significant diversion of water from one basin to another?			
19.	Significant modification of annual flood cycle affecting downstream ecosystem, people's sustenance and livelihoods?			
20.	Proliferation of aquatic weeds in reservoir and downstream impairing dam discharge, irrigation systems, navigation and fisheries, and increasing water loss through transpiration?			
21.	Scouring of riverbed below dam?			
22.	Downstream erosion of recipient river in trans-basin diversion?			
23.	Increased flooding risk of recipient river in trans- basin diversion?			
24.	Decline or change in fisheries below the dam due to reduced peak flows and floods, submersion of river stretches and resultant destruction of fish breeding and nursery grounds, and water quality changes?			
25.	Loss of migratory fish species due to barrier imposed by the dam?			
26.	Formation of sediment deposits at reservoir entrance, creating backwater effect and flooding and waterlogging upstream?			
27.	Significant disruption of river sediment transport downstream due to trapping in reservoir?			
28.	Environmental risk due to potential toxicity of sediments trapped behind the dams?			
29.	Increased saltwater intrusion in estuary and low lands due to reduced river flows?			
30.	Significant induced seismicity due to large reservoir size and potential environmental hazard from catastrophic failure of the dam?			
31.	Cumulative effects due to its role as part of a cascade of dams/ reservoirs?			
32.	Depletion of dissolved oxygen by large quantities of			

SCREENING QUESTION	YE S	NO	REMARKS
decaying plant material, fish mortality due to reduced dissolved oxygen content in water, algal blooms causing successive and temporary eutrophication, growth and proliferation of aquatic weeds?			

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in landuse? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in existing Right of way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of existing crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of businesses or enterprises due to land acquisition?				
10	Will there be loss of income sources, businesses, enterprises and means of livelihoods due to land acquisition?				
11	Will people lose access to natural resources, communal facilities or state facilities and resources?				
12	Will the project cause any displacement of people? If yes, approximately how many?				
13	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, indigenous/ ethnic minorities?				
14	Are there any aspects that may impact gender parity?				
15	Any negative impact on the poor, women and children, Indigenous Peoples or other vulnerable groups?				
16	Uncontrolled human migration into the area made possible by access roads and transmission lines?				
17	Social conflicts between local laborers				

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
	and those from outside the area?				
18	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				
19	 Risks to community health and safety due to: c) The transport, storage, and use and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? d) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	N O	Not Know n	REMARKS
1	Are there socio-cultural groups present in or use the subproject area who may be considered as "tribes" (hill tribes, schedules tribes, tribal peoples), ", or "indigenous communities" in the subproject area?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the subproject area as belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target Indigenous Peoples?				
8	Will the project directly or indirectly affect Indigenous Peoples' traditional socio-cultural and belief practices? (e.g. child-rearing, health, education, arts, and governance)				
9	Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)				

Annex C8: E&S Screening- Micro/Mini Grid

A. Borrower Information

Application Registration Number (ARN)

Loan ID

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1	Total Capacity of the Project:	
2	Technology:	
3	Total Area covered(Sq. mtrs/ Acres/ Hectares):	
4	Geographical Coordinates(Lat, Long)	
5	Project Status:	
6	Associated Facilities in and outside project area	

	SCREENING QUESTION	YE S	NO	REMARKS
A	Potential Environmental Impacts Will the Project cause			
1.	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
2.	Encroachment on precious ecology resulting in loss or damage to terrestrial or aquatic habitats (e.g., wetlands, sensitive or protected areas, fish breeding grounds, flora and fauna of economic/ medicinal value) or species of conservation significance.			
3.	Encroachment on historical/cultural monuments or areas?			
4.	Noise, vibration and dust from construction activities?			
5.	Damage to the local flora and crops due to cutting of trees to avoid shading?			
6.	Damage to the soil and water resources due to improper hazardous waste management of batteries and broken panels?			
7.	Air pollution due to diesel generator or any other conventional energy source?			

Sr. No.	Probable Involuntary Resettlement Effects	YE S	NO	Not Know n	REMARKS
1.	Is the ownership status and current usage of land/roof to be acquired known? If yes, provide details.				
2.	Will there be involuntary land acquisition?				
3.	Will there be loss of shelter and residential land due to land acquisition if any?				
4.	Will there be loss of agricultural and other productive assets due to land acquisition if any?				
5.	Will there be losses of existing crops, trees, and fixed assets due to land acquisition if any?				
6.	Will there be change of income sources, businesses, enterprises or means of livelihood due to the project?				
8	Will people lose access to existing facilities or resources?				
9	Will the project cause any displacement of people? If yes, approximately how many?				
10	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or ethnic minorities)?				
11	Are there any aspects that may impact gender parity?				
12	Any impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
13	Risks and vulnerabilities related to occupational health and safety due to physical, electrical or fire hazards during construction, installation, operation, and decommission?				
14	Risks to community health and safety due to accidental and natural causes, especially where the structural elements or components of the project are accessible to the public?				

Sr. No.	Probable Involuntary Resettlement Effects	YE S	NO	Not Know n	REMARKS
15	Conflicts with respect to water use for panel cleaning?				
16	Structural risks of the building considering the present condition of the roof?				
17	Increased risk of fires or electrocution?				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and tribal people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

Annex C9: E&S Screening- Solar Home Lighting System

A. Borrower Information

Application Registration Number (ARN)

Loan ID

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr. No.	Parameter	Description
1	Total Capacity of the Project:	
2	Technology:	
3	Total Area covered(Sq. mtrs/ Acres/ Hectares):	
4	Geographical Coordinates(Lat, Long)	
5	Project Status:	
6	Associated Facilities in and outside project area	

	SCREENING QUESTION	YES	NO	REMARKS
Α	Potential Environmental Impacts Will the Project cause			
1.	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
2.	Noise and vibration due to installation activities?			
3.	Damage to the local flora and crops due to cutting of trees to avoid shading?			
4.	Damage to the soil and water resources due to improper management of broken panels?			
5.	Contamination of soil and ground water resources due to improper battery management?			
6.	Air pollution due to diesel generator (used as backup) or any other conventional energy source?			

Sr. No.	Probable Involuntary Resettlement Effects	YES	NO	Not Known	REMARKS
1.	Is the ownership status and current usage of roof to be acquired known? If yes, provide details.				
2.	Will there be losses of existing trees and fixed assets due to space utilization?				
3.	Will there be change of income sources, businesses, enterprises or means of livelihood due to the project?				
4.	Will people lose access to existing facilities or resources?				
5.	Risks and vulnerabilities related to health and safety of occupants due to physical, electrical or fire hazards during installation and operation?				
6.	Structural risks of the building considering the present condition of the roof?				
7.	Increased risk of fires or electrocution?				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and tribal people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

Annex C10: E&S Screening- Solar Irrigation Pumps

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person for Environmental & Social Issues from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

Sr.	Parameter	Description
1	Total Power Capacity of Project (HP/kW):	
2	Type of connection	
3	PV Technology:	
4	Total Area covered through solar panels (Sq. mtrs/ Acres/ Hectares):	
5	Geographical coordinates(Lat, Long)	
6	Project Status:	
7	Associated Infrastructure(pump capacity and other details)	

	SCREENING QUESTION	YE S	NO	REMARKS
Α	Potential Environmental Impacts Will the Project cause:			
1.	Aesthetic and potential property value impacts due to establishment of project and ancillary facilities?			
2.	Wastage of water resources due to unwarranted usage in any form?			
3.	Lowering of the ground water level in the area due to excessive pumping?			
4.	Impact on the local ecology and bio-diversity due to extraction and usage of water			
5.	Damage to the local flora and crops due to cutting of trees to avoid shading?			
6.	Damage to the soil and water resources due to improper management of hazardous waste such as management of batteries and broken panels?			
7.	Air pollution due to diesel generator or any other conventional energy source?			
8.	Increased risk for depletion of groundwater resources and lower groundwater levels?			

	Probable Social Impacts	YE S	NO	Not Know n	REMARKS
1.	Is the site for project implementation known?				
2.	Will there be losses of existing crops, trees, and fixed assets due to project activity if any?				
3.	Will there be change of income sources, businesses, enterprises or means of livelihood due to the project?				
4.	Are there any aspects that may impact gender parity?				
5.	Any impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
6.	Risks and vulnerabilities related to health and safety due to physical, electrical or fire hazards from the project?				
7.	Conflicts with respect to water usage due to additional pumping?				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and tribal people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

Annex C11: E&S Screening- Aerogenerators & Solar Wind Hybrid

A. Borrower Information

Application Registration Number (ARN):

Loan ID:

Borrower:

Location:

Contact Details of Responsible Person from Borrower:

Name:	
Designation:	
Address:	
Phone:	
Email:	

B. Project Design Data

Sr. No.	Parameter	Description
1	Total Power Capacity of Project (MW):	
2	Rated Power of each Turbine (MW):	
3	Total Area covered (Acres/ Hectares):	
4	Previous Land Use of Project Area:	
5	Geographical Coordinates(Lat, Long)	
6	Project Status:	
7	Associated Infrastructure in and outside project area (like transmission line, labor camp, etc.)	

ENVIRONMENTAL SCREENING CHECKLIST

	SCREENING QUESTION	YES	NO	REMARKS
A	Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas? If yes, provide the distance from the site.			
1	Physical Cultural/ religious heritage site			
2	Legally protected area			
3	Natural or modified habitats with significant remaining biodiversity value such as pristine forests areas or grasslands?			
4	Wetland (lakes and rivers, underground aquifers, swamps and marshes, wet grasslands, peat lands, oases, estuaries, deltas and tidal flats, mangroves and other coastal areas, coral reefs, and all human-made sites such as fish ponds, rice paddies, reservoirs and salt pans.)			
5	Vulnerable marine areas			
6	Airport (or migratory route of avian species)			
В	Potential Environmental Impacts Will the Project cause			
1	Aesthetic and potential property value impacts due to establishment of plant and ancillary facilities?			
2	Encroachment on historical/cultural monuments or areas?			
3	Noise, vibration and dust from construction activities?			
4	Noise disturbance during operation due to the proximity of settlements or other features?			
5	A threat to bird or bat life due to collision with turbine and tower?			
6	Aviation or navigation hazards from turbines?			
7	Shadow flicker in nearby settlements or at other important local sites?			

SOCIAL SCREENING CHECKLIST

	Probable Involuntary Resettlement Impacts	YES	NO	Not Known	REMARKS
1	Is the site for land acquisition known?				
2	Is the ownership status and current usage of land to be acquired known? If yes, please provide details.				
3	Will there be land acquisition?				
4	Will there be change in land use? If yes, will it have an adverse impact on social and economic activities?				
5	Are there any issues in the existing Right of Way (ROW)?				
6	Will there be loss of shelter and residential land due to land acquisition?				
7	Will there be loss of agricultural and other productive assets due to land acquisition?				
8	Will there be losses of crops, trees, and fixed assets due to land acquisition?				
9	Will there be loss of income sources, businesses, enterprises or means of livelihood due to land acquisition?				
10	Will people lose access to natural resources, communal facilities or state facilities and resources?				
11	Will the project cause any displacement of people? If yes, approximately how many?				
12	Do the displaced people belong to any of the vulnerable groups (poor, female heads of households, scheduled tribes or tribal people?				
13	Are there any aspects that may negatively impact gender parity?				
14	Any negative impact on the poor, women and children, scheduled tribes or other vulnerable groups?				
16	Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during construction, installation, operation, and decommission?				
17	Risks to community health and safety due to: g) The transport, storage, and use				

Probable Involuntary Resettlement Impacts	YES	NO	Not Known	REMARKS
 and/or disposal of materials and wastes such as explosives, fuel and other chemicals during construction, and operation? h) Both accidental and natural causes, especially where the structural elements or components of the project are accessible to the public? 				

	KEY CONCERNS (Please provide elaboration in the Remarks column)	YES	NO	Not Known	REMARKS
1	Are there socio-cultural groups present in or use the project area who identify themselves as being part of a distinct social or cultural group that may be considered as "tribes" (hill tribes, scheduled tribes, tribal peoples)?				
2	Are there national or local laws or policies or bodies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes and tribal peoples?				
3	Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
4	Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
5	Do such groups speak a distinct language or dialect?				
6	Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
7	Will the project directly or indirectly benefit or target scheduled tribes and tribal people?				
8	Will the project directly or indirectly affect scheduled tribes and tribal people and their traditional socio-cultural and belief practices (e.g. child-rearing, health, education, arts, and governance)?				
9	Will the project affect the livelihood systems of scheduled tribes and people (e.g., food production system, natural resource management, crafts and trade, employment status)?				

INDIGENOUS PEOPLES IMPACT SCREENING CHECKLIST

ANNEX D: PROJECT CATEGORIZATION FORMS

ENVIRONMENTAL CATEGORIZATION FORM

A. Instructions

The project categorization is to be carried out on the basis of the environment screening of the project, which is to be recommended by ESSU head and accepted by the respective sector head.

The classification of a project is a continuous process. If there is a change in the project components or/and site that may result in category change, the concerned unit must submit a new form and request for re-categorization, and endorsement by ESSU. The old form is attached for reference.

B. Project Data

3					
Borrower:		Financing Amount:			
Technology:		Address/Contact:			
C. Subject					
🖾 Environment	□ Social	🗌 Indigenous (Tribal) People			
D. Categorization					
□New □ Re-categoriza	ation – Previous C	ategory			
Category A	Category B	Category C			
E. Basis for Categorization/ R	ecategorization	(pls. attach documents):			
C C	U	-			
Checklist and Type of Check	List:				
Project and/or Site Description					
Other (e.g., due diligence):					
F. Comments					
G. Approval					
Endorsed & recommended by	:	Accepted by:			
Head, ESSU		Technical team leader			
Date :		Date:			
·					
(Signature)		(Signature)			

SOCIAL CATEGORIZATION FORM

A. Instructions

The project categorization is to be carried out on the basis of the social screening of the project, which is to be recommended by ESSU head and accepted by the respective sector head.					
The classification of a project is a contract or or and site that may result in categorization, and endorsem B. Project Data	ory change, the co	ncerned unit must su	ıbmit a new form and request		
Borrower:		Financing Amount:			
Technology:		Address/Contact:			
C. Subject					
Environment D. Categorization	⊠ Social] Indigenous (Tribal) People		
New Re-categorization – Previous Category Category A Category B Category C E. Basis for Categorization/ Recategorization (pls. attach documents): Checklist and Type of Check List: Checklist and/or Site Description: Other (e.g., due diligence):					
F. Comments					
G. Approval Endorsed & recommended by:		Accepted by:			
Head, ESSU Date :		Technical team le Date:	eader		
(Signature)		(Signature)			

INDIGENOUS PEOPLE CATEGORIZATION FORM

A. Instructions

The project categorization is to be carried out on the basis of the indigenous people screening of the project, which is to be recommended by ESSU head and accepted by the respective sector head.

The classification of a project is a continuous process. If there is a change in the project components or/and site that may result in category change, the concerned unit must submit a new form and request for re-categorization, and endorsement by ESSU. The old form is attached for reference.

B. Project Data					
Borrower:		Financing Amou	int:		
Technology:		Address/Contact:			
C. Subject					
Environment	□ Social		🛛 Indigenous (Tribal) People		
D. Categorization					
□New □ Re-categoriza	ation – Previous (Category			
Category A	Category B		Category C		
E. Basis for Categorization/ R	ecategorizatior	ı (pls. attach docun	nents):		
Checklist and Type of Check I Project and/or Site Descriptio Other (e.g., due diligence): F. Comments	on:				
r. comments					
G. Approval					
Endorsed & recommended by	:	Accepted by:			
Head, ESSU		Technical team leader			
Date :		Date:			
(Signature)		(Signature)			

ANNEX E: GENERAL LOAN COVENANTS

- a) Borrower shall provide all information related to Environmental and Social Management aspects to IREDA.
- b) Borrower shall agree to fully comply with all applicable national Environmental, Occupational Health and Safety, Social Laws and Regulations and Core Labor Standards during construction, operation and decommissioning.
- c) Borrower shall develop and submit the following plans to IREDA within one month of signing loan agreement:
 - i. Environment Management Plan (Land, Water, Waste, etc)
 - ii. Occupational Health & Safety Plan
 - iii. Social Management and Community Health, Safety & Security Plan
 - iv. Grievance Redressal Plan
- d) Borrower shall conduct a detailed Environmental & Social Impact Assessment of the project if required.
- e) Maintain and abide by the Environmental Clearance from Ministry of Environment and Forest, GOI or the State Pollution control board, air and water consents (to establish and operate), hazardous waste authorization, if applicable.
- f) Provide a copy of the various certifications of the borrower and the contractors such as ISO (International Organization for Standardization), OHSAS (Operational Health & Safety Assessment Series), etc, if available.
- g) Provide response to periodic information requests on Environmental & Social compliance and performance by IREDA.
- h) Air, Water and Soil
 - i. Use (hazardous) chemicals with proper safeguards, store and dispose them properly, so as not to contaminate air, water and soil.
 - ii. Prevent any form of land erosion or degradation to the extent possible.

iii. Have proper storage facility for material (like transformer oil, batteries, etc), so as not to percolate to ground. Also have a spill prevention and response plan to control any inadvertent leakage or spillage.

- iv. Restrict the construction activity to the daytime so as not to create noise during night, if project site is close to habitation.
- v. Prevent any form of disturbance to the heritage sites, protected areas, national parks, wildlife sanctuaries, community reserves, estuaries, mangroves or any other biodiversity rich or biologically sensitive areas.
- i) Waste
 - i. Reduce the amount of waste by improving the process or recycling.
 - ii. Have and implement waste management plan with responsibilities allocated to officials.
 - iii. Take precautions in waste disposal, such as not dumping liquid or solid waste in public places and water bodies.
- j) Labor
 - iv. Ensure the health & safety of employees, labors and neighbors.
 - v. Not employ children below 14 years of age, as per The Child and Adolescent Labour Act of 1986. iii. Ensure emergency preparedness at the site against fire, flood or any other untoward incident.
 - vi. Provide basis amenities to temporary as well as permanent labor such as drinking water and sanitation. Special arrangements for female workers.

- vii. Prefer local labor and give employment opportunities to the locals wherever possible.
- viii. In case of migratory labor, arrange for their accommodation and inform them about local customs and practices, so as not to affect the locals in any negative manner.
- k) Community
 - i. Avoid any human resettlement or displacement due to the project to the extent possible.
 - ii. Ensure that there is no negative impact on the livelihood of the people affected directly or indirectly.
 - iii. Be gender sensitive and gender equitable during project planning, construction and operations.
 - iv. Take measures to protect the interest of the vulnerable groups such as elderly, children and women.
 - v. Ensure that there is no disturbance to the indigenous community or scheduled tribes, in existing in the region of project implementation.
 - vi. Evaluate and undertake community development measures considering the socioeconomic profile of the region.
 - vii. Posting of warning signage and information boards about public safety hazards, including risk for electrocution.
- Promptly notify (within a week) IREDA upon receipt of notice, of any event having a direct or potential material adverse effect on environmental, occupational health & safety, labor issues, adjacent populations or that has attracted the adverse attention of outside parties, created adverse press reports or created potential liabilities, including any Environmental or Social claim as well as any measures taken to mitigate or remedy the effects or cause of such event.

Sector Specific Loan Covenants

Annex E1.1: Solar Power

- a) Have a proper water procurement plan for the lifetime of the project and submit the same to IREDA.
- b) Employ water efficient panel cleaning methods such as dry mopping, robotic cleaning, etc.
- c) Obtain permission from concerned authorities before drawing ground water and ground water should not be drawn in the areas notified under Environmental (Protection) Act, 1986 by Central Ground Water Authority for control and regulation of ground water.
- d) A rainwater harvesting facility to recharge ground water should be developed.
- e) Ensure the quality of cleaning water so as not to hamper the efficiency of panels and install treatment facility if required.
- f) Regularly monitor and keep a record of water consumption in the plant.
- g) Avoid diversion of water meant for other purposes such as drinking, domestic consumption and irrigation.
- h) In case, water for the project is being supplied through water tankers, they should have requisite license from authorities and should have signage 'Not for Drinking use".
- i) Avoid wastage of water in any form.
- j) Minimize the disturbance and destruction of the existing vegetation cover during construction activities;
- k) Re-establish the vegetative cover at the project sites as quickly as possible after installation of the PV panels and ancillary components.
- 1) If necessary, introduce soil conservation measures such as soil bunds and ditches to lead surface water away from the sites in a non-erosive and controlled manner.
- m) Manage hazardous waste such as used batteries and broken and decommissioned solar/PV panels in a safe manner using licensed waste disposal companies or enter into disposal agreements with providers or manufacturers of batteries and panels.
- n) Provide fencing of an appropriate standard around the solar energy project site to prevent access by the public.

Annex E1.2: Decentralized & Solar Rooftop

- a) The developer shall engage landowners and users early in the planning process; and acquire the necessary authorization to utilize the land for project development through for instance long term land lease agreements.
- b) Compensation shall be paid for any damages on property and loss of assets arising from the construction, operation and decommissioning of mini grid project.
- c) Physical and economic displacement shall be avoided as far as possible.
- d) The routing of transmission lines shall be done carefully, preferably following roads or exiting wayleaves in order to minimize the need for cutting down trees and crossing agricultural lands.
- e) Broken PV panels and used batteries should be delivered to a fully licensed and approved hazardous waste handling company or alternatively, returned to the provider for recycling or safe disposal.

Annex E1.3: Solar Irrigation Pumps

- a) The developer should ensure judicious use of ground water being pumped.
- b) Requisite permissions from the relevant ground water regulating authorities prevalent in the state and Centre should be taken wherever required
- c) Used batteries and damaged/decommissioned and broken solar panels shall be delivered to a fully licensed hazardous waste handling company.

Annex E2: Wind Power

- a) Have a proper transport and traffic management plan for the movement of heavy machinery such as blades.
- b) The disturbance to the area around the WTG sites should be minimal and it should be restored to the original conditions after commissioning.
- c) The footprint of O&M facilities as well as parking and vehicular circulation should be clearly defined and not allowed to spill over into other areas.
- d) The noise level at the nearby receptors should be monitored and should be within the limits prescribed by Central Pollution Control Board for the applicable area category. If the noise levels are exceeding the limits then solid noise barrier should be provided to reduce the impact.
- e) Waste material should be cleared in a timely manner and use of artificial lights should be minimized so as not to attract wildlife.
- f) General awareness about the local and migratory fauna should be provided to the staff and laborers to ensure their safety and preservation of biodiversity at the same time.
- g) The siting, spacing, design and color of the WTGs should be such that the birds are not attracted towards them or any nearby location.
- h) Additional studies and surveys should be done if location of any of the WTGs fall within the probable flight path of the migratory birds or if there is a nearby water body that may attract birds. Based on the outcome of the studies, mitigation measures should be implemented.
- i) The impact of shadow flicker should be studied if there are any receptors within 500 m of any of the WTGs and appropriate mitigation measures should be implemented based on the impact and in consultation with the receptors.
- j) When work at height is performed during construction and operation work equipment such as edge protection, guardrails and harnesses shall be used to prevent a fall from occurring.

Annex E3. Small Hydro Power

- a) Blasting, if required should be carried out with the permission of the concerned authorities and considering the safety of men and property.
- b) There should be minimum change in the natural course of river.
- c) The access roads should be safe for transportation of men and material.
- d) There should be proper Muck Disposal Plan and site, along with stabilization and restoration.
- e) The area used temporarily for the construction activities should be restored back to the original conditions to the extent possible.
- f) The minimum flow should be maintained in the downstream as per GOI requirements and to satisfy water needs and environmental protection.

- g) The impact of proposed construction on indigenous and migratory fish resources should be assessed and a Fishery Conservation and Management Plan should be prepared if required.
- h) Soil erosion and sedimentation of river water should be prevented through appropriate measures.

Annex E4. Biomass & Cogeneration Power

- a) Conflicts with regard to sourcing and use of biomass to be used as feedstock shall be avoided.
- b) Conflicts with regard to use of water for cooling or other biomass power plant processes shall be avoided
- c) Biomass power developers shall select "state of the art" technologies that minimizes polluting air emissions.
- d) Control devices such as scrubbers, fabric filters, and electrostatic precipitators to capture air pollutants shall be installed on biomass power plants that do not comply with emission limits/guidelines.
- e) Ash and other solid/liquid waste from the project should be safely and responsibly disposed of, avoiding any negative impact on soil, water and air.

ANNEX F: ENVIRONMENTAL & SOCIAL MONITORING REPORT

Annex F1: E&S Monitoring Report – Solar Rooftop

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	Date:	
Reporting period:		

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Status	
Key Developments/ Changes	

No.	Requirement	Status	Guidance
1.	Environmental Impact Category		To be filled by IREDA
2.	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		<i>Such as OHSAS-18001, ISO-14001 etc.</i>
5.	Solar Panel cleaning method used and frequency of cleaning.		<i>Water hose, robotic cleaning, mopping etc.</i>
6.	Visual Amenity: Visual impact from construction activities		<i>Events of materials lay down, excavation, back filling etc.</i>
7.	Source of water used for cleaning. Specify quantity per year.		
8.	If groundwater is used are the required permits in place?		<i>If Yes, provide a copy.</i> <i>If No, reason thereof.</i>

No.	Requirement	Status	Guidance
9.	Air Quality: Exhaust emission and dust generation		
10.	Comments on the structural stability of the rooftop		
11.	Is rainwater harvesting being done and whether the harvested water is used for utility purposes or used for recharging?		
12.	No. of panels damaged/broken during the monitoring period		
13.	Methodology for disposal of broken panels		-Return to the manufacturer - Sent to directly to recycler -Others
14.	Details of other waste generated during the monitoring period and the disposal methods used.		Waste may include broken/damaged panels, packaging materials, transformer oil, soil and debris, sanitary waste etc.
15.	Environment Management Capacity of the project and any enhancement therein?		No. of staff, qualification , experience and trainings undertaken during the period
16.	Any accidents or incidents that may lead to environmental issues such as oil leakage, groundwater contamination, dust generation etc.?		If Yes, then describe the event- the damage caused and remedial measure adopted

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		<i>No. of households rehabilitated and pending, compensation agreed and given</i>
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipment, on- site medical facilities, health and safety trainings etc.

No.	Requirement	Status	Guidance
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		Details of grievances and resolutions thereof.
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
10.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People		To be filled by IREDA
1	Impact Category		To be fined by fixeDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

Prepared by:

Name:	Phone:
Position:	E-mail:
Signature:	
Reviewed by:	
Name:	Phone:
Position:	E-mail:
Signature:	

Annex F2: E&S Monitoring Report – Ground Mounted Solar Power

A. Information of the borrower

Name of Organization:			
Completed by(name):			
Position in organization:		Date:	
Reporting period:			

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Status	
Key Developments/ Changes	

No.	Requirement	Status	Guidance
1.	Environmental Impact Category		<i>To be filled by</i> <i>IREDA</i>
2.	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS- 18001, ISO-14001 etc.
5.	No. of panels damaged/broken during the monitoring period		-Return to the manufacturer - Sent to directly to recycler -Others
6.	Solar Panel cleaning method used and frequency of cleaning.		Water hose, robotic cleaning, mopping etc.
7.	Source of water used for cleaning. Specify quantity per year.		
8.	If groundwater is used are the required permits in place?		If Yes, provide a copy. If No, reason thereof.

No.	Requirement	Status	Guidance
9.	Is rainwater harvesting being done and		
	whether the harvested water is used for utility		
	purposes or used for recharging?		
10.	Details of the waste generated during the		Waste may include
	monitoring period and the disposal methods		broken/damaged
	used.		panels, packaging
			materials,
			transformer oil, soil
			and debris,
			sanitary waste etc.
11.	Environment Management Capacity of the		No. of staff,
	project and any enhancement therein?		qualification ,
			experience and
			trainings
			undertaken during
			the period
12.	Any accidents or incidents that may lead to		If Yes, then describe
	environmental issues such as oil leakage,		the event- the
	groundwater contamination, dust generation		damage caused and
	etc.?		remedial measure
			adopted
13.	Any efforts to develop green zones in or around		Any plantations,
	the project sites?		landscaping,
			afforestation, green
			belts etc.

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		<i>No. of households rehabilitated and pending, compensation agreed and given</i>
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipments, on- site medical facilities, health and safety trainings etc.
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and

No.	Requirement	Status	Guidance
			attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		<i>Details of grievances and resolutions thereof.</i>
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
10.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

Prepared by:	
Name:	
Position:	
Signature:	

Reviewed by: Name: Position: Signature: Phone: E-mail:

Phone: E-mail:

Annex F3: E&S Monitoring Report - Wind Power

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:]	Date:
Reporting period:		

B. Project Name and Summary Information

Loan ID:	
Name	
Location	
Capacity	
Stage	
Key Developments/ Changes	

No.	Requirement	Status	Guidance
1	Environmental Category		<i>To be filled by</i> <i>IREDA</i>
2	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS- 18001, ISO-14001 etc.
5	Estimated number and frequency of bird and bat strikes over the reporting period?		Provide the details of the incidents observed or reported within 300 m radius of the turbine
6	Details of the waste generated and the disposal methods used.		Waste may include excavated materials, packaging materials, etc.
7	Implemented mitigation measures as per project EMP?		<i>If Yes, provide a copy. If No, reason thereof.</i>

No.	Requirement	Status	Guidance
8	Environment Management Capacity of the		No. of staff,
	project (no. of staff, qualification and		qualification ,
	experience) and any enhancement therein?		experience and
			trainings
			undertaken during
			the period
9	Any accidents or incidents that may lead to		If Yes, then describe
	environmental issues such as oil leakage etc.?		the event- the
			damage caused and
			remedial measure
			adopted
10	Any efforts to develop green zones in or around		Any plantations,
	the project sites?		landscaping,
			afforestation, green
			belts etc.

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		<i>No. of households</i> <i>rehabilitated and pending,</i> <i>compensation agreed and</i> <i>given</i>
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipment, on- site medical facilities, health and safety trainings etc.
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		Details of grievances and resolutions thereof. Grievances may be related to noise, shadow flicker, bird/bat hits, distraction to traffic.

No.	Requirement	Status	Guidance
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
10.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u>	
Name:	Phone:
Position:	E-mail:
Signature:	
<u>Reviewed by:</u>	
Namo	Phone

<u>Reviewed by:</u> Name: Position: Signature:

Phone: E-mail:

Annex F4: E&S Monitoring Report - Biomass Power

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	D	ate:
Reporting period:		

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Stage	
Key developments or changes with	
respect to project	
design/operations/expansions	

Sr. No.	Requirement	Status	Guidance
1.	Environmental Category		To be filled by IREDA
2.	Environmental Permits/Consents/Clearances/No Cs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS-18001, ISO-14001 etc.
5.	Any incidents related to failure of air pollution prevention devises (fabric filters, scrubbers, electrostatic precipitators etc.?		<i>Report details such as type of failure, duration and probable emissions.</i>
6.	Details of the waste generated and the disposal methods used.		Waste may include fly ash from boiler, effluents, slurry, used transformer oil etc.
7.	Environment Management Capacity of the project (no. of staff, qualification and experience) and any enhancement therein?		<i>No. of staff, qualification , experience and trainings undertaken during the period</i>

Sr. No.	Requirement	Status	Guidance
8.	Any accidents or incidents that may lead to environmental issues such as oil leakage, accidental fires, boiler rupture, cooling tower discharge into water bodies etc.?		<i>Describe the event- the damage caused and remedial measure adopted</i>
9.	Any efforts to develop green zones in or around the project sites?		<i>No. of staff, qualification , experience and trainings undertaken during the period</i>

D. Social Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Social Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		<i>No. of households rehabilitated and pending, compensation agreed and given</i>
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipment, on-site medical facilities, health and safety trainings etc.
5.	Local employment generation		Number of locally employed- staff actual figure and percentage
6.	Has a Grievance Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		Details of grievances and resolutions thereof.
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused community health/social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.

Sr. No.	Requirement	Status	Guidance
10.	Any stakeholder engagement and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		<i>If not already included in the IPP.</i>
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u>	
Name:	Phone:
Position:	E-mail:
Signature:	
Reviewed by:	
Name:	Phone:

Position: Signature: E-mail:

Annex F5: E&S Monitoring Report – Mini Hydro (≤ 2 Mw)

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	Γ	Date:
Reporting period:		

B. Project Name and Summary Information

Name	
Location	
Capacity	
Stage	
Key developments or changes with	
respect to project	
design/operations/expansions	

Sr. No.	Requirement	Status	Guidance
1.	Environmental Category		<i>To be filled by</i> <i>IREDA</i>
2.	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS- 18001, ISO- 14001 etc.
5.	Actual water flow being maintained in the dewatered river section? Any issues with maintaining mandated environmental flow for the dewatered river section?		Specify the actual flow in dewatered section as percentage of original flow or volume per unit time
6.	Any issues with downstream water quality such as anoxic water and rotten smell?		<i>Report any</i> <i>quality issues</i> <i>raised</i>
7.	Any issues with downstream river morphology (slumping of river banks and sedimentation)?		<i>If Yes, provide a copy. If No, reason thereof.</i>

Sr. No.	Requirement	Status	Guidance
8.	Any issues with fluctuating downstream river flow due to peaking operation of the power plant?		Provide details of any incident reported or
9.	Details of the waste generated and the disposal methods used.		observed Waste may include excavated materials, packaging materials, etc.
10.	Environment Management Capacity of the project and any enhancement therein?		No. of staff, qualification, experience and trainings undertaken during the period
11.	Any accidents or incidents that may lead to environmental issues such as large scale deforestation, soil erosion, oil leakage, groundwater contamination, dust generation etc.?		If Yes, then describe the event- the damage caused and remedial measure adopted
12.	Any efforts to develop green zones in or around the project sites?		Any plantations, landscaping, afforestation, green belts etc.

D. Social Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Social Category		<i>To be filled by</i> <i>IREDA</i>
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		No. of households rehabilitated and pending, compensation agreed and given
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipments, on-site medical facilities, health and safety trainings etc.

Sr. No.	Requirement	Status	Guidance
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		Details of grievances and resolutions thereof.
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused community health/social issues?		Labor accidents, social unrest, local- migrant labor conflicts etc.
10.	Any stakeholder engagement and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		<i>If not already included in the IPP.</i>

No.	Requirement	Status	Guidance
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

Prepared by: Name: Position: Signature:

Phone: E-mail:

<u>Reviewed by:</u> Name: Position: Signature:

Phone: E-mail:

Annex F6: E&S Monitoring Report – Run Of River Hydro Power

A. Information of the borrower

Name of Organization:	
Completed by(name):	
Position in organization:	Date:
Reporting period:	

B. Project Name and Summary Information

Name	
Location	
Capacity	
Stage	
Key developments or changes with	
respect to project	
design/operations/expansions	

Sr. No.	Requirement	Status	Guidance
1.	Environmental Category		<i>To be filled by</i> <i>IREDA</i>
2.	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS- 18001, ISO- 14001 etc.
5.	Actual water flow being maintained in the dewatered river section? Any issues with maintaining mandated environmental flow for the dewatered river section?		Specify the actual flow in dewatered section as percentage of original flow or volume per unit time
6.	Any issues with downstream water quality such as anoxic water and rotten smell?		Report any quality issues raised
7.	Any issues with downstream river morphology (slumping of riverbanks and sedimentation)?		<i>If Yes, provide a copy. If No, reason thereof.</i>

Sr. No.	Requirement	Status	Guidance
8.	Any issues with fluctuating downstream river flow due to peaking operation of the power plant?		Provide details of any incident reported or observed
9.	Details of the waste generated and the disposal methods used.		Waste may include excavated materials, packaging materials, etc.
10.	Environment Management Capacity of the project and any enhancement therein?		<i>No. of staff, qualification , experience and trainings undertaken during the period</i>
11.	Any accidents or incidents that may lead to environmental issues such as large scale deforestation, soil erosion, oil leakage, groundwater contamination, dust generation etc.?		If Yes, then describe the event- the damage caused and remedial measure adopted
12.	Any efforts to develop green zones in or around the project sites?		Any plantations, landscaping, afforestation, green belts etc.

D. Social Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Social Category		<i>To be filled by</i> <i>IREDA</i>
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Status of the implementation of the Resettlement and Rehabilitation Plan if applicable?		No. of households rehabilitated and pending, compensation agreed and given
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipments, on-site medical facilities, health and safety trainings etc.

Sr. No.	Requirement	Status	Guidance
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised and respective resolution.		Details of grievances and resolutions thereof.
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused community health/social issues?		Labor accidents, social unrest, local- migrant labor conflicts etc.
10.	Any stakeholder engagement and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		<i>If not already included in the IPP.</i>

No.	Requirement	Status	Guidance
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

Prepared by: Name: Position: Signature:

Phone: E-mail:

<u>Reviewed by:</u> Name: Position: Signature:

Phone: E-mail:

Annex F7: E&S Monitoring Report – Reservoir Based Hydro Power

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	D	ate:
Reporting period:		

B. Project Name and Summary Information

Name	
Location	
Capacity	
Stage	
Key developments or changes with	
respect to project	
design/operations/expansions	

Sr.	Requirement	Status	Guidance
No.			
1.	Environmental Category		<i>To be filled by</i> <i>IREDA</i>
2.	Environmental Permits/Consents/Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Environment, health and safety related Standards followed or Certifications obtained.		Such as OHSAS-18001, ISO-14001 etc.
5.	Actual water flow being maintained in the dewatered river section? Any issues with maintaining mandated environmental flow for the dewatered river section?		Specify the actual flow in dewatered section as percentage of original flow or volume per unit time

Sr. No.	Requirement	Status	Guidance
6.	Any issues with downstream water quality such		Report any
	as anoxic water and rotten smell?		quality issues
			raised
7.	Any issues with downstream river morphology		If Yes, provide
	(slumping of river banks and sedimentation)?		a copy. If No,
			reason thereof.
8.	Any issues with fluctuating downstream river		Provide details
	flow due to peaking operation of the power		of any incident
	plant?		reported or
	r · · ·		observed
9.	Details of the waste generated and the disposal		Waste may
	methods used.		include
			excavated
			materials,
			packaging
			materials, etc.
10.	Environment Management Capacity of the		No. of staff,
	project and any enhancement therein?		qualification,
			experience and
			trainings
			undertaken
			during the
			period
11.	Any accidents or incidents that may lead to		If Yes, then
	environmental issues such as large scale		describe the
	deforestation, soil erosion, oil leakage,		event- the
	groundwater contamination, dust generation		damage caused
	etc.?		and remedial
			measure
			adopted
12.	Any efforts to develop green zones in or around		Any
	the project sites?		plantations,
			landscaping,
			afforestation,
			green belts etc.

D. Social Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Social Category		<i>To be filled by</i> <i>IREDA</i>
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.

Sr. No.	Requirement	Status	Guidance
3.	Status of the implementation of the Resettlement		No. of
	and Rehabilitation Plan if applicable?		households
			rehabilitated
			and pending,
			compensation
			agreed and
			given
	Occupational Ucelth and Safety macauma		Providing
4.	Occupational Health and Safety measures		
	implemented?		personal
			protective
			equipments,
			on-site
			medical
			facilities,
			health and
			safety
			trainings etc.
5.	Local employment generation		Number of
J.	Local employment generation		locally
			employed-
			staff actual
			figure and
			percentage
6.	Has a Grievance Mechanism been established and		Attach a copy
	how has it been publicly disclosed?		of grievance
			redressal
			mechanism
			adopted and
			state the
			mode of
			public
			disclosures
			(display
			board at site,
			public notice
			-
			etc.) and
			attach
			photographs
			of the same.
7.	Grievances (internal or external) raised and		Details of
	respective resolution.		grievances
			and
			resolutions
			thereof.
8.	CSR or any other community development activity		
	supported and undertaken?		
9.	Any other accidents or incidents that may or have		Labor
-	caused community health/social issues?		accidents,
	caused community nearth/social issues?		social unrest,
			local-migran
			labor
			conflicts etc.

Sr. No.	Requirement	Status	Guidance
10.	Any stakeholder engagement and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

Signature:

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		<i>If not already included in the IPP.</i>
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u>	
Name:	Phone:
Position:	E-mail:
Signature:	
<u>Reviewed by:</u>	
Name:	Phone:
Position:	E-mail:

Annex F8: E&S Monitoring Report – Solar Based Micro/Mini Grid

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	Da	te:
Reporting period:		

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Status	
Key Developments/ Changes	

C. Environmental Compliance Issues

No.	Requirement	Status	Guidance
1.	Environmental Impact Category		To be filled by IREDA
2.	Environmental Permits/ Consents/ Clearances/NoCs/Approvals as obtained for the project		Enclose supporting documentation
3.	Type of battery being installed in the system		Lead acid or lithium ion
4.	Total number of batteries installed in the project		
5.	Total number of batteries replaced or removed		
6.	What has been the method of disposal of non-functional batteries?		-Buyback with the battery manufacturer -Disposal through registered recyclers
7.	No. of panels damaged/broken during the monitoring period		
8.	Methodology for disposal of broken panels		-Return to the manufacturer - Sent to directly to recycler -Others
9.	Solar Panel cleaning method used and frequency of cleaning.		Water hose, robotic cleaning, mopping etc.
10.	Source of water used for cleaning. Specify quantity per year.		

No.	Requirement	Status	Guidance
11.	Is rainwater harvesting being done and whether the harvested water is used for utility purposes or used for recharging?		
12.	Any accidents or incidents that may lead to environmental issues such acid leakage etc.?		<i>If Yes, then describe the event- the damage caused and remedial measure adopted</i>

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		Pending payments, approvals, clearances, local discontent etc.
3.	Health and safety related Standards/ Certifications obtained for the equipment		Such as ISO, IEC, BIS etc.
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipments, on- site medical facilities, health and safety trainings etc.
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
7.	Grievances (internal or external) raised by stakeholders and respective resolution.		<i>Details of grievances and resolutions thereof.</i>
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
10.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u> Name: Position: Signature:

Phone: E-mail:

<u>Reviewed by:</u> Name: Position: Signature:

Phone: E-mail:

Annex F9: E&S Monitoring Report - Solar Home Lighting Systems

A. Information of the borrower

Name of Organization:			
Completed by(name):			
Position in organization:	1	Date:	
Reporting period:			

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Status	
Key Developments/ Changes	

C. Environmental Compliance Issues

No.	Requirement	Status	Guidance
1.	Environmental Impact Category		To be filled by IREDA
2.	No. of systems implemented under the project		<i>Total number of systems</i> <i>provided till the end of</i> <i>monitoring period</i>
3.	No. of systems functional under the project		2(sr. no.) minus non- operational/functional systems
4.	Type of battery being installed in the system		Lead acid or lithium ion
5.	Total number of batteries installed in the project		<i>The number of batteries</i> <i>would be equal to the</i> <i>number of systems installed</i> <i>under the project</i>
6.	Total number of batteries replaced or removed		
7.	What has been the method of disposal of non-functional batteries?		-Buyback with the battery manufacturer -Disposal through registered recyclers
8.	No. of panels damaged/broken during the monitoring period		
9.	Methodology for disposal of broken panels		<i>-Return to the manufacturer - Sent to directly to recycler</i>

No.	Requirement	Status	Guidance
			-Others
10.	Any accidents or		If Yes, then describe the
	incidents that may lead		event- the damage caused
	to environmental issues		and remedial measure
	reported/observed		adopted
	during the monitoring		*
	period?		

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Health and Safety measures taken for/by the occupants as identified during project planning		<i>List the mitigation measures implemented. Also state any additional measures taken</i>
3.	Health and safety related Standards/ Certifications obtained for the equipment		Such as ISO, IEC, BIS etc.
4.	Local employment generation		Number of locally employed-staff actual figure and percentage
5.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
6.	Grievances (internal or external) raised by the stakeholders and respective resolution.		Details of grievances and resolutions thereof.
7.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
8.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People		To be filled by IREDA
	Impact Category		

No.	Requirement	Status	Guidance
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u> Name: Position: Signature:

<u>Reviewed by:</u> Name: Position: Signature: Phone: E-mail:

Phone: E-mail:

Annex F10: E&S Monitoring Report – Solar Irrigation Pumps

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	D	ate:
Reporting period:		

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Status	
Key Developments/ Changes	

C. Environmental Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Environmental Impact Category		To be filled by IREDA
2.	No. of pumps implemented under the project		<i>Total number of pumps provided till the end of monitoring period</i>
3.	No. of pumps functional under the project		2(sr. no.) minus non- operational/functional systems
4.	Activities for Awareness creation for judicious utilization of awareness about judicious utilization of ground water resources.		Enlist the activities undertaken by the manufacturer for creating awareness
5.	No. of panels damaged/broken during the monitoring period		
6.	Methodology for disposal of broken panels		-Return to the manufacturer - Sent to directly to recycler -Others
7.	Any accidents or incidents that may lead to environmental issues reported/observed during the monitoring period?		<i>If Yes, then describe</i> <i>the event- the damage</i> <i>caused and remedial</i> <i>measure adopted</i>

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Health and Safety measures taken for/by the occupants as identified during project planning		<i>List the mitigation measures implemented. Also state any additional measures taken</i>
3.	Health and safety related Standards/ Certifications obtained for the equipment		Such as ISO, IEC, BIS etc.
4.	Local employment generation		Number of locally employed-staff actual figure and percentage
5.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.
6.	Grievances (internal or external) raised by the stakeholders and respective resolution.		Details of grievances and resolutions thereof.
7.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
8.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident

Position:

Signature:

No.	Requirement	Status	Guidance	
6 Grievances raised by indigenous population and respective resolution?		Details of grievances and resolutions thereof.		
<u>Prepa</u> Name:	<u>red by:</u> :		Phone:	
Position: Signature:			E-mail:	
Reviev	wed by:			
Name	•		Phone:	

E-mail:

Annex F11: E&S Monitoring Report – Aerogenerators & Solar Wind Hybrid

A. Information of the borrower

Name of Organization:		
Completed by(name):		
Position in organization:	Da	te:
Reporting period:		

B. Project Name and Summary Information

Loan ID	
Name	
Location	
Capacity	
Stage	
Key Developments/ Changes	

C. Environmental Compliance Issues

Sr. No.	Requirement	Status	Guidance
1.	Environmental Category		To be filled by IREDA
2.	Environmental Permits/Consents/Clearances/NoCs /Approvals as obtained for the project		Enclose supporting documentation
3.	Mitigation Measures implemented as identified in the Environment Management Plan.		List the mitigation measures implemented. Also state any additional measures taken
4.	Estimated number and frequency of bird and bat strikes over the reporting period?		Provide the details of the incidents observed or reported within 300 m radius of the turbine
5.	Methodology for disposal of broken panels		-Return to the manufacturer - Sent to directly to recycler -Others
6.	Details of other waste generated and the disposal methods used.		Waste may include excavated materials, packaging materials, etc.
7.	Implemented mitigation measures as per project EMP?		If Yes, provide a copy. If No, reason thereof.
8.	Environment Management Capacity of the project (no. of staff,		<i>No. of staff, qualification ,</i>

Sr. No.	Requirement	Status	Guidance
	qualification and experience) and		experience and
	any enhancement therein?		trainings undertaken
	-		during the period
9.	Any accidents or incidents that may		If Yes, then describe
	lead to environmental issues such as		the event- the
	oil leakage etc.?		damage caused and
	-		remedial measure
			adopted
	In case of	solar wind hybrid	
10.	The type of battery being installed in		Lead acid or lithium
	the system		ion
11.	Total number of batteries replaced		
	or removed		
12.	What has been the method of		-Buyback with the
	disposal of non-functional batteries?		battery
	_		manufacturer
			-Disposal through
			registered recyclers
13.	No. of panels damaged/broken		
	during the monitoring period		

D. Social Compliance Issues

No.	Requirement	Status	Guidance
1.	Social Impact Category		To be filled by IREDA
2.	Any open issues with respect to land procurement/lease?		<i>Pending payments, approvals, clearances, local discontent etc.</i>
3.	Health and safety related Standards/ Certifications obtained for the equipment		Such as ISO, IEC, BIS etc.
4.	Occupational Health and Safety measures implemented?		Providing personal protective equipments, on- site medical facilities, health and safety trainings etc.
5.	Local employment generation		Number of locally employed-staff actual figure and percentage
6.	Has a Grievance Redressal Mechanism been established and how has it been publicly disclosed?		Attach a copy of grievance redressal mechanism adopted and state the mode of public disclosures (display board at site, public notice etc.) and attach photographs of the same.

No.	Requirement	Status	Guidance
7.	Grievances (internal or external) raised by stakeholders and respective resolution.		Details of grievances and resolutions thereof. Grievances may be related to noise, shadow flicker, bird/bat hits, distraction to traffic.
8.	CSR or any other community development activity supported and undertaken?		
9.	Any other accidents or incidents that may or have caused social issues?		Labor accidents, social unrest, local-migrant labor conflicts etc.
10.	Any stakeholder engagement/ meetings/ interactions/ consultations and interaction undertaken?		Stakeholders may include- local government, NGOs, Self Help Groups (SHGs), Panchayats, residents etc.

E. Indigenous People Safeguards

No.	Requirement	Status	Guidance
1	Indigenous People Impact Category		To be filled by IREDA
2	Implementation of Indigenous People's Plan (IPP) if applicable?		<i>List the measures undertaken for Indigenous</i> <i>People Protection and Safeguards</i>
3	Any observed impacts (positive or negative) on indigenous people?		<i>List the impact indicators of the project such as- change in customary practices, livelihood, living standards etc.</i>
4	Mitigation of negative impacts if any?		If not already included in the IPP.
5	Any incidents or accidents that may have an effect on the indigenous population?		Any untoward mishap/social incident
6	Grievances raised by indigenous population and respective resolution?		<i>Details of grievances and resolutions thereof.</i>

<u>Prepared by:</u> Name: Position: Signature:

Reviewed by: Name: Position: Signature: Phone: E-mail:

Phone: E-mail:

ANNEX G: GRIEVANCE REDRESSAL MECHANISM

1 Introduction

The implementation of a project may have implications on both the environment as well as the people around the project site. People may be apprehensive about the impacts of the project during the construction and operational phase. IREDA and its client/borrower seek to build strong relationships with stakeholders and manage the impact of its business activities on affected communities. The Grievance Procedure allows stakeholders to raise questions or concerns or provide positive feedback with IREDA and have them addressed in a prompt and respectful manner. IREDA aims to address all complaints received, regardless of whether they stem from real or perceived issues. Any stakeholder who considers himself affected by activities of IREDA funded projects will have access to this procedure. The statutory rights of the complainant to undertake legal proceedings remain unaffected by participation in this process and the GRM shall be transparent, easily accessible, considerate of gender and cultural diversity and capable of encompassing the risks associated with all stages of the project that may have an impact on the people and surrounding environment.

IREDA seeks to foster trust in the process and its outcomes. To this end, IREDA will communicate this procedure in an understandable manner to affected stakeholder groups. Confidentiality will be respected and IREDA will take all reasonable steps to protect the interest of parties.

1.1 Purpose

This mechanism establishes the process for addressing complaints raised in connection with activities of IREDA funded projects. It describes the scope and procedural steps for the complaint handling and specifies roles and responsibilities of the parties involved. It will be revised and updated periodically based on experience and feedback from stakeholders.

1.2 Objectives

This Procedure has the following objectives:

- Establish a prompt, consistent and transparent mechanism for receiving, investigating and responding to complaints from stakeholders
- Ensure proper documentation of complaints and any corrective actions taken;
- Identify and manage stakeholder concerns and thus support effective risk management; and
- Contribute to continuous improvement in performance through feedback and lessons learned

2 Scope

Project affected parties may submit complaints regarding environmental and social issues arising in connection with the activities related to the project. This procedure is open to all stakeholders who consider themselves affected by the activities of IREDA.

Project affected party may include:

- IREDA's Client/borrower
- Affected person(s): May include landowners, local people or anyone residing in the vicinity of the project.
- Mediator for affected person
- Social Service and Welfare Organization

IREDA reserves the right not to address a complaint which it reasonably considers amounts to no more than general, unspecified and un-actionable dissatisfaction with IREDA's client/borrower, is otherwise malicious or vexatious in nature, or concerns a matter for which

IREDA's client/borrower has no formal responsibility (for example, a matter that the government controls).

3 Terminology

Terminology used in this Procedure has the following meaning:

Term	Definition
Complainant	An individual, group or organisation who submits a complaint to IREDA.
Complaint	An expression of dissatisfaction with IREDA, typically referring to a specific source of concern and/or seeking a specific solution. For the purposes of this mechanism, a question or request may also be treated as a complaint.
Complaint Log	A database for maintaining information about complaints received.
IREDA's	A company or an organisation that receives capital or funding
client/borrower	directly from IREDA for implementation of project.
Projects	Project or project activities funded by IREDA.

4 Roles and Responsibilities for IREDA and IREDA's Borrower

IREDA shall communicate the existence of this grievance procedure to the stakeholders as part of its stakeholder engagement activities. Roles and responsibilities under this Procedure are as follows:

Role	Responsibility
Environment & Social Safeguard Unit (ESSU)	implementation and execution of this procedure.
E&S Compliance Officer (CO)	Responsible for receiving the complaint, providing acknowledgement of receipt, serving as the main point of contact for the complainant, escalate the complaint to the relevant department, ensure timely resolution of complaint and communicate the same to the complainant.
Grievance Committee (GC)	 The Grievance Committee will be responsible for reviewing and resolving the complaints received. The committee will consist of following: Compliance Officer E&S Specialist Sector Head (for which complaint is received) Project Dealing Officer Representative from Legal Department of IREDA Representative from HR Department of IREDA
Project Developer	IREDA's client/borrower, regarding whose project complaint has been raised. Responsible for resolving a complaint with respect to the project. This includes conducting investigations, proposing resolutions, implementing corrective actions and co-ordinating with the CO and other parties.

Role	Responsibility
Appeal Committee (AC)	 The Appeal Committee will be responsible for hearing the appeals with respect to the decisions made by the Grievance Committee. The committee will consist of following: CMD of IREDA Director (Technical) of IREDA GM (HR) of IREDA
Role	Responsibility
Environment & Social Safeguard Unit (ESSU)	The Environmental and Social Cell of IREDA is responsible for implementation and execution of this procedure.
E&S Compliance Officer (CO)	Responsible for receiving the complaint, providing acknowledgement of receipt, serving as the main point of contact for the complainant, escalate the complaint to the relevant department, ensure timely resolution of complaint and communicate the same to the complainant.
Grievance Committee (GC)	 The Grievance Committee will be responsible for reviewing and resolving the complaints received. The committee will consist of following: Compliance Officer E&S Specialist Sector Head (for which complaint is received) Project Dealing Officer Representative from Legal Department of IREDA Representative from HR Department of IREDA
Project Developer	IREDA's client/borrower, regarding whose project complaint has been raised. Responsible for resolving a complaint with respect to the project. This includes conducting investigations, proposing resolutions, implementing corrective actions and co-ordinating with the CO and other parties.
Appeal Committee (AC)	 The Appeal Committee will be responsible for hearing the appeals with respect to the decisions made by the Grievance Committee. The committee will consist of following: CMD of IREDA Director (Technical) of IREDA GM (HR) of IREDA

5 Procedure for Resolving Complaints

This section sets out the process to be followed for receiving, investigating and resolving complaints. Refer to the Grievance Redress Procedure in Figure below:

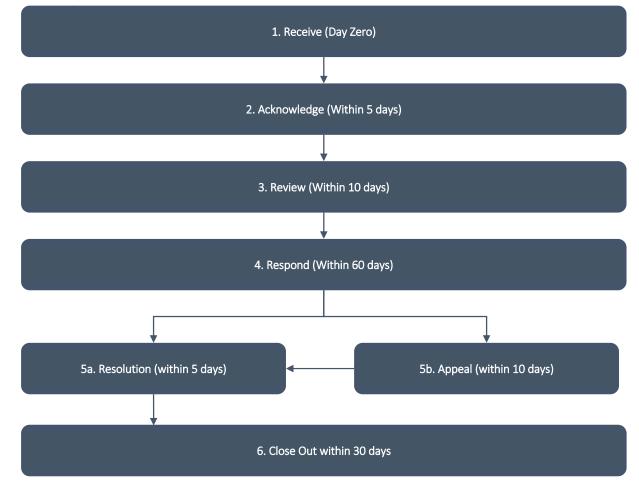


Figure 6: IREDA's Grievance Redress Procedure

1. Receive

Stakeholders shall be able to submit a grievance either verbally to the Compliant Officer (CO) or by filling the grievance form. The filled grievance form may be submitted to the CO physically in hard copy or electronically to the following address:

E&S Compliance Officer Indian Renewable Energy Development Agency Core 4A, India Habitat Centre Lodhi Road, New Delhi 110003 Ph: +91 11 2671 7400, Fax: +91 11 2671 7416 Email: ESCO@ireda.in

In cases when the mode of filing the complaint is telephonic, the CO will fill it out and read the contents back to verify accuracy. This method of completion will be noted in the form. The CO shall maintain, and update record of the complaints received.

2. Acknowledge

Once a complaint has been received, the CO shall register the complaint in the complaint log generate a registration number. Upon registration, the CO shall send a written acknowledgement/email to the complainant acknowledging the receipt of the complaint. The letter should normally be sent within 5 working days of receiving the complaint. The acknowledgement shall be in the format provided in section below. This process shall be completed within **five days** of receipt of the complaint.

3. Review

The Grievance Committee (GC) shall be formed within 7 working days of the complaint received, based on the structure mentioned in the table above. A GC meeting shall be convened within 10 working days of receipt of complaint. The objective of the meeting shall be the assessment of severity of the complaint. The factual basis for the complaint shall be investigated and options to resolve the issue shall be proposed. The relevant sector head will contact the project developer for whose project the complaint is received. The project developer should provide access of all relevant documentation to IREDA. The GC may involve third parties in the fact-finding process as required. The identity of the Complainant should only be disclosed to the extent necessary to resolve the issue or as required by law. If the Complainant has specifically requested that his or her identity should not be disclosed, their personal information may not be shared with third parties unless required by law. The GC and the project developer shall agree to the timelines for the resolution of the complaint.

4. Respond

The findings and recommendations of the GC shall be communicated to the Complainant. If the Complainant accepts the resolution, Project Developer will proceed to implement (Section 6.5a). If the Complainant does not accept the resolution, he/she has right to escalate the matter to the Appeals Committee (Section 6.5b). The Complainant's response will be documented in the Complaint Log.

5. Resolution

If the Complainant accepts the proposed resolution, the agreed actions are implemented. The Project Developer informs the CO once the resolution has been implemented. The CO then asks the Complainant to sign the Close Out Form. If the Complainant agrees to sign, the Complaint is closed out as Resolved. If the Complainant refuses to sign close out form, or is not satisfied with the implementation of recommended resolution, he/she may appeal to the Appeals Committee (Section 6.5b).

6. Appeal

IREDA will seek to reach to a resolution with the Complainant that is satisfactory to both sides. If Project Developer and the Complainant are unable to agree on a solution, the Complaint may be escalated to the Appeal(s) Committee for review and final decision.

The Appeal(s) Committee shall review the case and determine if further reasonable action is possible. If no reasonable action is possible, the Appeal(s) Committee authorises the close out of the Complaint. A close out letter will be sent to the Complainant explaining the position of Project Developer.

Cases where the Complainant disputes or declines to acknowledge the implementation of a previously agreed resolution may also be referred to the Appeal(s) Committee for review.

If actions taken on a grievance are not successful, a stakeholder may turn to court in accordance with the existing national legislation.

7. Close Out

A Complaint is closed out when no further action can be or needs to be taken.

Closure status will be classified in the records as follows: Resolved, unresolved or abandoned. The PRO is responsible for updating the Complaints Register and the logistics associated with closing out the case.

At the end of a case, regardless of whether agreement was achieved, the PRO will seek feedback from the Complainant on their level of satisfaction with the complaint handling process and its outcome.

6 Performance Monitoring and Reporting

ESSU Head is responsible for gathering and reporting performance monitoring data under this Procedure. All performance monitoring data should be reported to IREDA's Management annually. Key performance indicators (KPIs) will be collected to enable IREDA to analyse trends in complaints received and identify underlying systemic issues. IREDA E&S Specialist is responsible for making recommendations for changes to policies or practices of IREDA's client/borrower based upon on-going learning from Complaints.

7 Confidentiality

7.1. Duty of Confidentiality

IREDA and IREDA's client/borrower are committed to protecting the identity of the Complainant and to handling personal information in accordance with legal requirements. This duty extends to all employees or representatives of IREDA's client/borrower or its Contractors who participate in the complaint handling process.

Information about a Complaint will be shared within the company on a need-to-know basis and only to the extent necessary to complete a step under this Procedure. IREDA and IREDA's client/borrower will not share personal information with third parties unless required by law or authorised by the Complainant.

7.2. Personal Data

Personal data contained in the Complaints Register will be kept only as long as necessary to investigate the complaint and implement a resolution. Personal data will then be either deleted or modified and transferred to an archive for a reasonable period as required by relevant laws and regulations on Data Privacy.

8 Conflicts of Interest

A conflict of interest exists where there is a divergence between the interests of an employee or Contractor and his or her responsibilities under this Procedure, such that an independent observer might reasonably question whether the actions of that person are influenced by his or her own interests.

This procedure seeks to manage potential conflicts of interest by segregating the roles and responsibilities of individuals involved in the complaint handling process and avoiding placing individuals in a position where conflicts could be perceived to arise. When a complaint relates to a specific IREDA, IREDA's client/borrower or Contractor employee, that person shall not play a role in the complaint handling process.

				sion Form	
Reference No (assig Officer, PRO):	ned	by a Public Relation	ns		
Please enter your co confidence.	onta	ct information and	l grievance. This inforr	nation will be dealt with	
				comment/grievance in the box ents will still be considered by a	
I want to remain	n ano	onymous			
Full Name	••••	Age		Gender:	
Address:					
	•••••				
Occupation: Phone No. / Mobile				Fax:	
Date and plac	ce of	f complaint sub	mission:		
Please mark how		 By Mail (Please provide mailing address): 			
you wish to be contacted (mail,					
telephone, e-mail).					
		By Telephone (Ple	ease provide Telephone	e number):	
		By E-mail (please	provide E-Mail addres	s): _	
		Hindi			
Preferred Language for		English			
		Other, please spe	cify:		
communication				and did it have and take did it have an	
communication Description of Incid		C - !	what happened? Wh	ere did it happen? Who did it happen	

Supporting Documents	
What would you like to see happen to res	solve the problem?
what would you fike to see happen to res	wive the problem.
Signature of Receiving Officer	Signature of
omplainant Date:	Date:
ate.	Date.
	Annexure 2
Ack	nowledgement Form
	Grievance Identification
No	
Name of complainant:	
Address of complainant:	
Date of complaint:	
Mode of complaint submission (Verb	al/written/ email/ any other):
Project Details:	
Subproject	District: State:
Summary of complaint:	
Supporting Documents:	
Supporting Documents:	
Supporting Documents: Details of officer receiving the c Name:	omplaint:
Details of officer receiving the c Name: Designation:	omplaint:
Details of officer receiving the c Name:	omplaint:

Annexure 3 Monthly Update on Grievance Redressal

Name of complainant:
Address of complainant:
Contact details of complainant:
Grievance Identification No.:

Summary of complaint:

Reporting period:

Stage of grievance redress (First/ Second/ Third):

Summary of measures taken for resolution of grievance during the reporting period:

•••••	 	 •••
•••••	 •••••	 •••
•••••	 	 •••

Details of officer-in-charge:

Name:	•
Designation:	
Contact No.:	

ANNEX H: E&S LEGAL REGISTER

E&S Topics	Title of the Legislation	Promulga	Competent Authority	Summary of the Legislation	Sector
E&S Topics Environmental Management	Legislation		Authority Ministry of	Legislation	Sector Hydro
				existing projects or activities and change in product mix, shall require prior	
				environmental clearance from the Ministry of Environment and Forests (MoEF) on the recommendations of an	
				Expert Appraisal Committee (EAC) to be	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation		Update	Authority	Legislation	
		tion				
					constituted by the	
					Central Government for	
					the purposes of this	
					Notification;	
					(iii) All projects or	
					activities included as	
					Category 'B' in the	
					Schedule, including	
					expansion and	
					modernization of	
					existing projects or	
					activities as specified in	
					sub paragraph (ii) of	
					paragraph 2, or change	
					in product mix as	
					specified in sub	
					paragraph (iii) of	
					paragraph 2, but	
					excluding those which	
					fulfill the General	
					Conditions (GC)	
					stipulated in the	
					Schedule, will require	
					prior environmental	
					clearance from the	
					State/Union territory	
					Environment Impact	
					Assessment Authority	
					(SEIAA). The SEIAA	
					shall base its decision	
					on the	
					recommendations of a	
					State or Union territory	
					level Expert Appraisal	
					Committee (SEAC) as to	
					be constituted for in	
					this notification. In the	
					absence of a duly	
					constituted SEIAA or	
					SEAC, a Category 'B'	
					project shall be treated	
					as a Category 'A'	
					project; For mini hydel	
					projects with less than	
					25 MW, capacity, they	
					need to obtain prior	
					Consent to Establish	
					and Consent to Operate	
					from respective State	
					Pollution Control	
					Board, wherever	
					applicable.	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
Environmental	Environmental	tion 2006	2009	Ministry of	For projects with power	Biomass
Management	Impact	2000	2009	•	generating capacity > 15	DIOIIIass
Management	Assessment			and Forests	MW plants based on	
				and Forests		
	Notification,				biomass fuel, projects	
	2006, Sr. No.				would require prior	
	8(a)				Environmental	
					Clearance from SEIAA	
					under Category B	
					projects. For projects	
					using municipal solid	
					non-hazardous waste as	
					fuel for generating	
					power capacity of > 20	
					MW, projects should	
					obtain prior	
					Environmental	
					Clearance from MoEF	
					under Category A	
					projects. For projects,	
					generating power <20	
					MW >15 MW using	
					municipal solid non-	
					hazardous waste, as	
					fuel, prior	
					Environmental	
					Clearance would be	
					required to obtained	
					under Category B	
					projects. Thermal	
					Power plants up to 15	
					MW based on biomass	
					or non-hazardous	
					municipal solid waste	
					using auxiliary fuel such	
					as coal,	
					lignite/petroleum	
					products upto 15% are	
					exempt from obtaining	
					prior Environmental	
					Clearance from MoEF	
					or SEIAA.	
Environmental	Environmental	2006	2009	Ministry of	As per the MoEF EIA	Wind
Management	Impact			Environment	Notification 2006 and	
-	Assessment			and Forests	as amended till date,	
	Notification,				Environmental	
	2006, Sr. No.				clearance is not	
	8(a)				required to be obtained	
	- (~)				for wind power projects	
					in India.	
Environmental	Environmontal	2006	2000	Ministry of	As per the MoEF EIA	Solar
		2000	2009		Notification 2006 and	SUIAI
Management	Impact					
	Assessment			and Forests	as amended till date,	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
	Notification, 2006, Sr. No. 8(a)				Environmental clearance is not required to be obtained for solar power projects in India.	
Environmental Management	Environmental Impact Assessment Notification, 2006, Sr. No. 8(a)	2006	2009	Ministry of Environment and Forests	As per Ministry of Environment and Forests (MoEF) EIA Notification dated 2006 and as amended till date 25.06.2014 All plants based on biomass fuel having a capacity > 15 MW , are required to obtain prior Environmental Clearance from State EIA Authority and have been categorized as Category B projects. For projects <20 MW >15 MW(using municipal solid non- hazardous waste, as fuel are categorized as Category B projects. Thermal Power plants up to 15 MW based on biomass or non- hazardous municipal solid waste using auxiliary fuel such as coal, lignite/ petroleum products upto 15% are	Biomass
Environmental Management	National Green Tribunal Act,2010	2010	NA	Ministry of Environment and Forests	exempt. National Green Tribunal Act, 2010 (NGT)[2] is an Act of the Parliament of India which enables creation of a special tribunal to handle the expeditious disposal of the cases pertaining to environmental issues.[3] It was enacted under India's constitutional provision of Article 21, which assures the citizens of India the right to a	All

E&S Topics	Title of the	Date of	Date of	Competent		Sector	
	Legislation			Authority	Legislation		
		tion					
					healthy environment.		
					The Tribunal's		
					dedicated jurisdiction in		
					environmental matters		
					shall provide speedy		
					environmental justice		
					and help reduce the		
					burden of litigation in		
					the higher courts. The		
					Tribunal shall not be		
					bound by the procedure		
					laid down under the		
					Code of Civil Procedure,		
					1908, but shall be		
					guided by principles of		
					natural justice. The		
					Tribunal is mandated to		
					make and endeavor for		
					disposal of applications		
					or appeals finally within		
					6 months of filing of the		
					same. Initially, the NGT		
					is proposed to be set up		
					at five places of sittings		
					and will follow circuit		
					procedure for making		
					itself more accessible;		
					New Delhi is the		
					Principal Place of		
					Sitting of the Tribunal		
					and Bhopal, Pune, Kolkata and Chennai		
					shall be the other 4		
					place of sitting of the		
					Tribunal. The Tribunal		
					has Original		
					Jurisdiction on matters		
					of "substantial question		
					relating to		
					environment" (i.e. a		
					community at large is		
					affected, damage to		
					public health at broader		
					level) & "damage to		
					environment due to		
					specific activity" (such		
					as pollution). However		
					there is no specific		
					method is defined in		
					Law for determining		
					"substantial" damage to		
					environment, property		

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
	_	tion	-		_	
					or public health. There	
					is restricted access to an	
					individual only if	
					damage to environment	
					is substantial. The	
					powers of tribunal	
					related to an award are	
					equivalent to Civil court	
					and tribunal may	
					transmit any	
					order/award to civil	
					court have local	
					jurisdiction. However,	
					the tribunal does not	
					follow civil law. it	
					follows principles of	
					natural justice The Bill	
					2	
					specifies that an application for dispute	
					related to environment	
					can be filled within six	
					months only when first	
					time dispute arose	
					(provide tribunal can	
					accept application after	
					60 days if it is satisfied	
					that appellant was	
					prevented by sufficient	
					cause from filling the	
					application).	
					Also Tribunal is	
					competent to hear cases	
					for several acts such as	
					Forest (Conservation)	
					Act, Biological Diversity	
					Act, Environment	
					(Protection) Act, Water	
					& Air (Prevention &	
					control of Pollution)	
					Acts etc. and also have	
					appellate jurisdiction	
					related to above acts	
					after establishment of	
					Tribunal within a	
					period of 30 days of	
					award or order received	
					by aggrieved party. The	
					Bill says that decision	
					taken by majority of	
					members shall be	
					binding and every order	
	I	1	1	1		

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga			Legislation	
	0	tion	-	v	0	
					of Tribunal shall be	
					final. Any person	
					aggrieved by an award,	
					decision, or order of the	
					Tribunal may appeal to	
					the Supreme Court	
					within 90 days of	
					commencement of	
					award but Supreme	
					Court can entertain	
					appeal even after 90	
					days if appellant	
					satisfied SC by giving	
					sufficient reasons.	
Environmental		1986	1991	Ministry of	No person carrying on	All
Management	(Protection) Act,			Environment	any industry, operation	
	amended in 1991			and Forests	or process shall	
					discharge or emit or	
					permit to be discharged	
					or emitted any	
					environmental	
					pollutant in excess of	
					such standards as may	
					be prescribed.	
Environmental	Environment	1985	1999	Ministry of	No new unit of the	All
Management	(Siting for	1905	1999		industries listed in	2 111
Management	Industrial			and Forests	Annexure-I shall be	
				and rolests		
	Projects) Rules				allowed to be set up in	
	1999				the following areas: i.	
					the entire area within	
					the municipal limits of	
					all Municipal	
					Corporations,	
					Municipal Councils and	
					Nagar Panchayats (by	
					whatever name these	
					are known in each state)	
					and a 25 km belt around	
					the cities having	
					population of more than	
					1 million; ii.7 km belt	
					around the periphery of	
					the wetlands listed in	
					Annexure-II; and iii.25	
					km belt around the	
					periphery of National	
					Parks, Sanctuaries and	
					core zones of biosphere	
					reserves, iv.0.5 km wide	
					strip on either side of	
					national highways and	
					rail lines;	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	0	tion	-	, v	0	
					2.Establishment of New	
					Units with certain	
					conditions:-	
					Establishment of new	
					units of the industries	
					listed in Annexure-I	
					shall be allowed in 7 km	
					to 25 km belt around	
					the periphery of the	
					wetlands listed in	
					Annexure-II only after	
					careful assessment of	
					their adverse ecological	
					and environmental	
					impacts.	
nvironmontal	Environmental	1986	NA	Ministry of	Rule 14 of	Hydro &
Aanagement	Statement. Rule	1900	INA		Environmental	Biomass
nanagement	14 of			and Forests	(Protection) Rules, 1986	DIOIIIass
	Environment			and Polests	mandates that every	
	(Protection)					
					industry requiring consent under Air	
	Rules, 1986					
	(hereinafter				or/and Water Act	
	referred to as				or/and authorization	
	EPR, 1986)				under (HWR) shall	
					submit an	
					Environmental Audit	
					Report on an annual	
					basis in the prescribed	
					format (Form V) to the	
					concerned SPCB (State	
					Pollution Control	
					Board).	
					• The facility should	
					submit to the SPCB	
					before 30-09 of every	
					year, the Environmental	
					Statement for the	
					financial year ending	
					31-03 as per the format	
					presented in Form V.	
					• The audit report must	
					contain information	
					about consumption of	
					raw materials and	
					water, pollution	
					generated and	
					hazardous/solid wastes	
					generated, including	
					disposal practices.	
					• The audit report must	
					also give details of the	
			1		impact of pollution	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
		tion			control measures and additional investment proposed for environmental protection and pollution abatement.	
Environmental Management	Public Liability Insuarance Act	1991	1992	MOEF& SPCB	An Act to provide for public liability-	All
					insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling any hazardous substance and for matters connected therewith or incidental thereto. In exercise of the powers conferred by clause (d) of Section 2 of the Public Liability Insurance Act, 1991 (6 of 1991), the Central Government hereby specifies the quantities shown in column 3 of the Table below for which or exceeding which every owner handling the hazardous substance mentioned in the corresponding entry in column 2 thereof shall take out insurance policy as per the provisions of the said Act. 3. (1) Where death or injury to any person (other than a workman) or damage to any property has resulted from an accident, the owner shall-be liable to give such relief as is specified in Schedule for such death, injury or damage. (2) In any claim for relief under	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
	_	tion			-	
					sub-section (I)	
					(hereinafter referred to	
					in this Act as claim for	
					relief), the claimant	
					shall not be required to	
					plead and establish that	
					the death, injury or	
					damage in respect of	
					which the claim has	
					been made was due to	
					any wrongful act,	
					neglect or default of any	
					person. Every owner	
					shall take out, before he	
					starts handling any	
					hazardous substance,	
					one or more insurance	
					policies providing for	
					contracts of insurance	
					thereby he is insured	
					against liability to give	
					relief under sub-section	
					(1) of section 3;	
					Provided that ally	
					owner handling any	
					hazardous substance	
					immediately before the	
					commencement of this	
					Act shall take out such	
					insurance policy or	
					policies as soon as may	
					be and in any case	
					within a period of one	
					year from such	
					commencement. (2)	
					Every owner shall get	
					the insurance policy, referred to in	
					subsection (1), renewed	
					from time to time	
					before the expiry of the	
					period of validity thereof so that the	
					insurance policies may	
					remain in force	
					throughout the period	
					during which such	
					handling is continued.	
					No insurance policy	
					taken out by an owner	
					shall be for a amount	
					less than the amount of	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga tion	Update	Authority	Legislation	
		uon			the paid-up capital of	
					the under taking	
					handling any hazardous	
					substance and owned or	
					controlled by that	
					owner and more than	
					the amount, not	
					exceeding fifty crore	
					rupees, as may be	
					prescribed.	
Air Emissions	Emission	1983	2009	SPCB	If the facility has	All
	Standards for				installed DG (Diesel	
	Diesel				Generator) of capacity	
	Generators				up to 800 Kilo Watt	
	(DG)-				(KW) on its premises,	
	Environmental				the air emission limits	
	(Protection)				for the same should	
	Second				comply with the	
	Amendment				standards specified	
	Rules, 2002 as				under Environment	
	amended				(Protection) Second	
	(hereinafter				Amendment Rules,	
	referred to as				2002. These standards	
	EPR, 2002)				specify the maximum	
	,				permissible limits for	
					oxides of nitrogen,	
					hydrocarbons, carbon	
					monoxide and	
					particulate matter for	
					three different	
					categories of DG based	
					on their capacities (up	
					to 19KW, 19-176KW and	
					176-800KW). Air	
					emission sources such	
					as DG where emissions	
					are regulated directly to	
					the capacity of the	
					equipment and the	
					quality of fuel. A	
					formula is used based	
					on the sulphur content	
					of the fuel or using the	
					formula $H = + 0.2$	
					(kVA)0.5, where H is	
					the stack height in	
					meters, h is the height	
					of the building in	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
		uon			meters and kVA is the rating of the diesel generator to ensure compliance.	
Air Emissions	G.S.R.384 (E), [16/11/2009] - National Ambient Air Quality Standards (earlier- G.S.R.6(E), [21/12/1983] - The Air (Prevention and Control of Pollution) (Union Territories) Rules, 1983)	1983	2009	SPCB	NAAQS (National Ambient Air Quality Standards) which have been promulgated under Section 16 (2) (h) of the Air Act, prescribe the levels of various pollutants in air (air quality) with an adequate margin of safety, to protect the public health, vegetation and property. The standards prescribe the daily average and annual average standard levels of various pollutants including Sulphur Dioxide, Nitrogen Dioxide, Particulate Matter (PM 10 and PM 2.5), Ozone, Lead, Carbon monoxide, Ammonia, Benzene, Benzo (a) Pyrene (Particulate phase only), Arsenic, and Nickel per the area (Industrial/rural/ residential/other areas and sensitive area) in which site is located. The onus of proof lies with the industry to prove that its emissions are not resulting in ambient air quality standards being breached.	Hydro & Biomass
Consent to Establish	Air (Prevention and Control of Pollution) Act,1981 as amended 1987; and	1981	1987	State Pollution Control Board	Section 21(1): Given the provisions of Section 21, a Consent to Establish (CTE) is required to be obtained from the State Pollution	All

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
_	Legislation	Promulga	Update	Authority	Legislation	
		tion	-	· ·	Ū	
	Air (Prevention				Control Board (SPCB)	
	and Control of				prior to commencing	
	Pollution) Rules				construction/	
	1982.				development of any new	
					establishment covered	
					under Section 21 (i.e.	
					any operation that may	
					result in air emissions).	
					However, it must be	
					noted that states like	
					Maharashtra and	
					Andhra Pradesh have	
					exempted this	
					requirement for	
					obtaining CTE & CTO	
					for renewable energy	
~				<u></u>	projects.	
Consent to	Water	1974	1988	State		All
Establish	(Prevention and			Pollution	(CTE) is required to be	
	Control of			Control	obtained from the State	
	Pollution) Act			Board	Pollution Control Board	
	1974, as				(SPCB) prior to	
	amended 1988;				commencing	
	and Water				construction/	
	(Prevention and				development of any new	
	Control of				establishment covered	
	Pollution) Rules				under Section 25.	
	1975.				According to the	
					provisions of Section	
					25(1) of the Water	
					(Prevention and Control	
					of Pollution) Act 1974,	
					as amended 1988, no	
					person shall, without	
					the previous consent of	
					the State Board:	
					(a) establish or take	
					any steps to establish	
					any industry, operation	
					or process, or any	
					treatment and disposal	
					system or an extension	
					or addition thereto,	
					which is likely to	
					discharge sewage or	
					trade effluent into a	
					stream or well or sewer	
					or on land (such	
					discharge being	
					hereafter in this section	
					referred to as discharge	
					of sewage); or	

E&S Topics	Title of the	Date of		Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					(b) bring into use any	
					new or altered outlets	
					for the discharge of	
					sewage; or	
					(c) begin to make any	
					new discharge of	
					sewage. However, it	
					must be noted that	
					states like Maharashtra,	
					Haryana and Andhra	
					Pradesh have exempted	
					this requirement for	
					obtaining CTE & CTO	
					for renewable energy	
Consent to	Ain Ash as Or -	100-	100-	Ctata	projects.	A 11
	Air Act,1981 as	1981	1987	State		All
Operate	amended 1987;			Pollution	Given the provisions of	
	and			Control	Section 21, a Consent to	
	Air (Prevention			Board	Operate (CTO) is	
	and Control of				required prior to	
	Pollution) Rules				commencing	
	1982				operations. In case	
					there are any new or	
					altered sources of air	
					emissions after grant of	
					the CTO, the owner/	
					occupier is required to	
					intimate the same to	
					SPCB and obtain a	
					suitably revised CTO.	
					Application for renewal	
					of the CTO granted	
					under the Air Act, 1981	
					needs to be submitted	
					at least ninety (90) days	
					prior to the date of the	
					expiry of the current	
					CTO.	
Consent to	Water	1974	1988	State	Given the provisions of	۵11
Operate	(Prevention and	19/4	1900	Pollution	Section 25, a Consent to	T 111
operate	Control of			Control	Operate (CTO) is	
	Pollution) Act			Board	· · ·	
				Duaru	required prior to	
	1974, as				commencing	
	amended 1988;				operations. In case	
	and Water				there are any new or	
	(Prevention and				altered sources of	
	Control of				wastewater discharge	
	Pollution) Rules				after grant of the CTO,	
	1975.				the owner/ occupier is	
					required to intimate the	
					same to the local SPCB	
					and obtain a suitably	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					revised CTO.	
					Application for renewal	
					of the CTO granted	
					under the Water Act,	
					1974 needs to be	
					submitted at least	
					ninety (90) days prior	
					to the date of the expiry	
					of the current CTO.	
					Apply to State Pollution	
					Control Board (SPCB)	
					for obtaining CTE and	
					subsequently CTO	
					under Section 25 of the	
					Water Act. Display	
					compliance to the	
					standards prescribed by	
					the West Bengal State	
					Pollution Control Board	
					(WBPCB). Submit	
					wastewater monitoring	
					reports as prescribed by the State Pollution	
					Control Board (SPCB)	
Biodiversity	The Indian	1001	1007	State Forest	The State Government	All
biourversity	Forest Act,1927	1921	1927	Department	may constitute any	All
	rolest Act,192/			Department	forest-land or waste-	
					land which is the	
					property of	
					Government, or over	
					which the Government	
					has proprietary rights,	
					or to the whole or any	
					part of the forest-	
					produce of which the	
					Government is entitled,	
					a reserved forest in the	
					manner hereinafter	
					provided(1) Any	
					person who (a) makes	
					any fresh clearing	
					prohibited by section 5,	
					or	
					(b) sets fire to a	
					reserved forest, or, in	
					contravention of any	
					rules made by the State	
					Government in this	
					behalf, kindles any fire,	
					or leaves any fire	
				burning, in such		

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	tion	Update	Authority	Legislation	
		uon			manner as to endanger	
					such a forest;	
					or who, in a reserved	
					forest (c) kindles, keeps	
					or carries any fire	
					except at such seasons	
					as the Forest-officer	
					may notify in this	
					behalf, (d) trespasses	
					or pastures cattle, or	
					permits cattle to	
					•	
					trespass;	
					(e) causes any damage	
					by negligence in felling	
					any tree or cutting or	
					dragging any timber;	
					(f) fells, girdles, lops, or	
					bums any tree or strips	
					off the bark or leaves	
					from, or otherwise	
					damages, the same;	
					(g) quarries stone, bums	
					lime or charcoal, or	
					collects, subjects to any	
					manufacturing process,	
					or removes, any forest-	
					produce; (h) clears or	
					breaks up any land for	
					cultivation or any other	
					purpose;	
					(i) in contravention of	
					any rules made in this	
					behalf by the State	
					Government hunts,	
					shoots, fishes, poisons	
					water or sets traps or	
					snares; or (j) in any	
					area in which the	
					Elephants Preservation	
					Act, 1879 (6 of 1879), is	
					not in force, kills or	
					catches elephants in	
					contravention of any	
					rules so made, shall be	
					punishable with	
					imprisonment for a	
					term which may extend	
					to six months, or with	
					fine which may extend	
					to five hundred rupees,	
					or with both, in addition	
					to such compensation	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
	0	tion	-	v	0	
					for damage done to the	
					forest as the convicting	
					Court may direct to be	
					paid. (2) Nothing in	
					this section shall be	
					deemed to prohibit (a)	
					any act done by	
					permission in writing of	
					the Forest-officer, or	
					under any rule made by	
					the state Government;	
					or (b) the exercise of	
					any right continued	
					under clause (c) of sub-	
					section (2) of section 15,	
					or created by grant or	
					contract in writing	
					made by or on behalf of	
					the Government under	
					section 23. (3)	
					Whenever fire is caused	
					wilfully or by gross	
					negligence in a reserved	
					forest, the State	
					Government may	
					(notwithstanding that	
					any penalty has been	
					inflicted under this	
					section) direct that in	
					such forest or any	
					portion there of the	
					exercise of all rights of	
					pasture or to forest	
					-	
					produce shall be	
					suspended for such	
					period as it thinks fit.	4.11
Biodiversity	Forest	1980	1988	State Forest	Notwithstanding	All
	Conservation			Department	anything contained in	
	Act,1980				any other law for the	
					time being in force in a	
					State, no State	
					Government or other	
					authority shall make,	
					except with the prior	
					approval of the Central	
					Government, any order	
					directing-	
					(i) that any reserved	
					forest (within the	
					meaning of the	
					expression "reserved	
		1	1		CAPICODIOII ILOCIVEU	1

E&S Topics	Title of the	Date of		Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion	_		-	
					the time being in force	
					in that State) or any	
					portion thereof, shall	
					cease to be reserved;	
					(ii) that any forest land	
					or any portion thereof	
					may be used for any	
					non-forest purpose;	
					(iii) that any forest land	
					or any portion thereof	
					may be assigned by way	
					of lease or otherwise to	
					any private person or to	
					any authority,	
					corporation, agency or	
					any other organization	
					not owned, managed or	
					controlled by	
					Government;	
					(iv) that any forest land	
					or any portion thereof	
					may be cleared of trees	
					which have grown	
					naturally in that land or	
					portion, for the purpose	
					of using it for	
					reforestation.	
Biodiversity	Forest	1981	2002	MoEF &	As per Rule 6 of the	All
biodiversity	Clearance-	1901	2003	State Forest	Forest (Conservation)	All
	Forest			Department	Rules, 2003, any	
	Conservation			Department	project, which requires	
					use of a forest land for	
	Rules, 2003					
					non-forest purposes	
					needs to create a	
					proposal in the	
					appropriate Form	
					(appended to the rules). Form 'A' pertains to	
					-	
					proposals seeking first	
					time approval under the	
					Act and Form 'B' is for	
					proposals seeking	
					renewal of leases where	
					approval of the Central	
					Government under the	
					Act has already been	
					obtained. In case of	
					projects requiring 5-40	
					hectares of land, a State	
					Advisory Group	
					provides its	
		1	1	1	recommendation to the	1

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		tion			regional office of MoEE	
					regional office of MoEF, while for projects	
					requiring above 40	
					hectares of land, a	
					Forest Advisory	
					Committee at the	
					central level gives its	
					recommendations to	
					the central office of	
					MoEF.	
Biodiversity	Eco-Sensitive	2011	2014	MoEF	The Kasturirangan	All
	zones, Western				committee report has	
	Ghats Ecology				sought to balance the	
	Expert Panel				two concerns of	
	(WGEEP),,				development and	
	reports by				environment	
	Gadgil&				protection, by watering	
	Kasturirangan				down the	
					environmental	
					regulation regime	
					proposed by the	
					Western Ghats Ecology	
					Experts Panel's Gadgil	
					report in 2012. The	
					Kasturirangan report	
					seeks to bring just 37%	
					of the Western Ghats	
					under the Ecologically	
					Sensitive Area (ESA)	
					zones - down from the	
					64% suggested by the	
					Gadgil report.[7] Dr.	
					V.S. Vijayan, member of	
					the Western Ghats	
					Ecology Expert Panel	
					(WGEEP) said	
					recommendations of the	
					Kasturirangan report	
					are undemocratic and	
					anti-environmental.	
					This Kasturirangan	
					committee was set up to	
					study the Gadgil	
					committee report on the	
					Western Ghats. Both	
					committees were	
					formed during the time	
					of United Progressive	
					Alliance (UPA)	
					government. In May	
					2014 National	
			1		Democratic Alliance	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
		tion	-	· ·	J. J	
					(NDA) came to power	
					and stated that it would	
					take the	
					recommendations of the	
					Kasturirangan	
					committee over Madhav	
					Gadgil committee	
					report. Therefore any	
					developmental activity	
					should be given	
					permission so that it	
					would not disturb the	
					lifestyle and ecology of	
					the region. Almost	
					three-fourth of the hills,	
					including plantations,	
					cultivated lands and	
					large habitations, is	
					turned into a restricted	
					development zone with	
					an over-arching	
					authority to regulate the	
					region superseding the	
					elected authorities' role.	
					This reports	
					recommended that no	
					new dams based on	
					large scale storage be	
					permitted in	
					Ecologically Sensitive	
					Zone. ESA (Ecologically	
					Sensitive Zone) is a type	
					of a rea which needs	
					special protection and	
					concern because of its	
					landscape, wildlife,	
					fertile land, some	
					historical values etc.	
					Thus, the projects	
					should be identified for	
					ESZ based on this	
					report, and should	
					check the applicability	
					under ESZ1, 2 & 3 from	
					Wild Life Department	
					or Forest Department	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation		Update	Authority	Legislation	
Diadimonett	Wildlife	tion	0000	Wildlife	The Wildlife Protection	All
Biodiversity		1972	2002			All
	Protection Act,			advisory	Act, 1972 is an Act of	
	1972			boards,	the Parliament of India	
				central zoo	enacted for protection	
				authorities	of plants and animal	
					species. Before 1972,	
					India only had five	
					designated national	
					parks. Among other	
					reforms, the Act	
					established schedules of	
					protected plant and	
					animal species; hunting	
					or harvesting these	
					species was largely	
					outlawed.	
					The Act provides for the	
					protection of wild	
					animals, birds and	
					plants; and for matters	
					connected therewith or	
					ancillary or incidental	
					thereto. It extends to	
					the whole of India,	
					except the State of	
					Jammu and Kashmir	
					which has its own	
					wildlife act. It has six	
					schedules which give	
					varying degrees of	
					protection. Schedule I	
					and part II of Schedule	
					II provide absolute	
					protection - offences	
					under these are	
					prescribed the highest	
					penalties. Species listed	
					in Schedule III and	
					Schedule IV are also	
					protected, but the	
					penalties are much	
					lower. Schedule V	
					includes the animals	
					which may be hunted.	
					The plants in Schedule	
					VI are prohibited from	
					cultivation and	
					planting. The hunting to	
					the Enforcement	
					authorities have the	
					power to compound	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion	- Pullo			
					offences under this	
					Schedule (i.e. they	
					impose fines on the	
					offenders). Up to April	
					2010 there have been 16	
					convictions under this	
					act relating to the death	
					of tigers.	
Biodiversity	Biological	2002	NA	MoEF &	Biodiversity has been	
v	Diversity Act			State Forest	defined under Section	
	2002				2(b) of the Act as "the	
				- •F ··· ··· ···	variability among living	
					organisms from all	
					sources and the	
					ecological complexes of	
					which they are part, and	
					includes diversity	
					within species or	
					between species and of	
					eco-systems". The Act	
					also defines, Biological	
					resources as "plants,	
					animals and micro-	
					organisms or parts	
					thereof, their genetic	
					material and by-	
					products (excluding	
					value added products)	
					with actual or potential	
					use or value, but does	
					not include human	
					genetic material. If a	
					0	
					person, violates the	
					regulatory provisions he	
					will be "punishable with	
					imprisonment for a	
					term which may extend	
					to five years, or with	
					fine which may extend	
					to ten lakh rupees and	
					where the damage	
					caused exceeds ten lakh	
					rupees such fine may	
					commensurate with the	
					damage caused, or with	
					both. "Any offence	
					under this Act is non-	
					bailable and cognizable.	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
Water Supply	Section 3(2) of	1978	2003	State	The regulation	Hydro &
	Water			Pollution	prescribes collection of	Biomass
	(Prevention and			Control	Cess for the purpose of	
	Control of			Board	the Water (Prevention	
	Pollution) Cess				and Control of	
	Act, 1977 and				Pollution) Act, 1974 (6	
	Rules				of 1974) and utilization	
	thereunder				thereunder.	
					The cess under sub-	
					section (1) shall be	
					payable by every person	
					carrying on any	
					industry practice that	
					consumes water for	
					domestic use (i.e. in	
					washrooms, kitchens, for general cleaning,	
					etc.) and/ or in	
					industrial processes	
					(including non-contact	
					uses such as boilers,	
					cooling towers, etc.) and	
					generates wastewater.	
					This legislation applies	
					even if the facility uses	
					water from an on-site or	
					off-site abstraction well.	
Water Supply	License for	1978	2003	Regional	Applicable to any	All
mater supply	Abstraction of	1970	2005	Ground	industrial or	
	Ground water-				commercial facility	
	Central Ground			Hater Doard	extracting groundwater	
	Water Authority				from a notified	
	First notification				Groundwater Depleted	
	No. S.O. 38(E)				area.	
	and the latest				In case groundwater	
	amendment				abstraction wells are	
	notification No.				present within areas	
	S.O (1024) E				that have been	
					identified to have a low	
					reserve of groundwater,	
					permission (and	
					registration) from	
					CGWB or concerned	
					State Authority is	
					required for utilization	
					of extracted	
					groundwater for	
					industrial/ commercial	
					purposes.	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
Waste	The Batteries	2001	2010	Ministry of	These rules shall apply	All
Management	(Management				to every manufacturer,	
	and Handling)			& Forest /	importer, re-	
	Rules, ,amended			State	conditioner, assembler,	
	2010			Pollution	dealer, recycler,	
				Control	auctioneer, consumer	
				Board	and bulk consumer	
					involved in	
					manufacture,	
					processing, sale,	
					purchase and use of	
					lead acid batteries or	
					components thereof.	
					The rules delineate the	
					responsibility of the	
					consumer, (the category	
					under which	
					infrastructure project	
					sites using plants,	
					equipment and vehicles	
				would fall) namely that		
					they must ensure that	
					used batteries are not	
					disposed of in any	
					manner other than	
					depositing with a	
					dealer, manufacturer,	
					importer, assembler,	
					registered recycler,	
					reconditioner or at	
					designated collection	
					centres.	
Waste	Hazardous	2008	2009	State	Wind, hydro and solar	All
Management	Waste	2000	2009	Pollution	power projects use	1 111
management	Authorization			Control	different types of fluids	
	under Section 3			Board	for the smooth	
	(ze) of the			Dourd	operation of the plants.	
	Hazardous				Primarily, three main	
	Wastes				types of fluid are used:	
	(Management,				(a) Generator cooling	
	Handling and				fluid is used as coolant	
	Transboundary				(a mixture of glycol and	
	Movement)				water, similar to what is	
					used in automobile	
	Rules, 2008				radiators)	
					-	
					(b) In wind power	
					projects-Lubricating oil	
					is used in the gearbox	
					(synthetic oil)	
					(c) Hydraulic oil for	
					operating the blade	
					pitch system, yaw	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	tion	Opdate	Authority	Legislation	
		uon			mechanism and rakes.	
					To protect transformer	
					-	
					from heating, mineral oil (transformer oil) is	
					used as coolant.	
					According to Section 3	
					of the Hazardous	
					Wastes (Management,	
					Handling and	
					Transboundary	
					Movement) Rules,	
					2008:	
					(d) Maintenance oil	
					(Used oil) for the	
					Turbine generators	
					(e) Solar PV panels -	
					made of hazardous and	
					toxic chemicals	
					(Schedule I, II and III)	
					includes a number of	
					chemicals	
					"Used oil" means any oil	
					derived from crude oil	
					or mixture containing	
					synthetic oil including	
					used engine oil, gear oil	
					, hydraulic oil, turbine	
					oil, compressor oil,	
					industrial gear oil, heat	
					transfer oil, transformer	
					oil, spent oil and their	
					tank bottom sludge.	
					It clearly indicates that	
					the used lubricating oil,	
					hydraulic oil and	
					transformer oil falls in	
					hazardous waste	
					category as per Section	
					3 (ze). Therefore, as per	
					the said Rule, each and	
					every wind power	
					project operator has to	
					take authorization from	
					the concerned SPCB	
					under Section 5 (1) of	
					the said Rule. The irony	
					is that many SPCBs do	
					not regulate wind power	
					projects or grant	
					authorization. Used oil	
					generated in solar	
					power projects from DG	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion	-	, i i i i i i i i i i i i i i i i i i i	Ŭ	
					sets, as well as waste	
					solar PV panels will also	
					fall under this	
					requirement. Used oil in	
					hydro pwoer projects	
					will ahve to be	
					considered for this	
					authorization also.	
Environmental		2000	2010	SPCB	The facility is required	Wind
Noise	(Regulation and				to ensure that:	
	Control) Rules,				• The ambient noise	
	2000 as				levels at the site are	
	amended				maintained within	
	(herein after				prescribed limits	
	referred to as				according to land use in	
	NPR, 2000)				the area, during the day	
					(0600 Hrs – 2200 Hrs)	
					and at night (2200 Hrs	
					– 0600 Hrs) by	
					ensuring proper noise	
					control measures.	
					• The maximum	
					permissible limits are as follows:	
					- Industrial area: 75 dB	
					(A) during daytime and (A) at right.	
					70 dB (A) at night;	
					- Commercial area: 65	
					dB (A) in day and 55 dB (A) in night;	
					- Residential area: 55	
					dB (A) in day and 45 dB	
					(A) in night; and	
					- Silence zone: 50 dB	
					(A) in day and 40 dB	
					(A) in night.	
					Submit reports of the	
					ambient noise	
					monitoring surveys to	
					SPCB at least once in a	
					year, as part of the	
					Annual Environment	
					Statement Report in	
					Form V of EPR, 1986 or	
					at such frequencies	
					specified by SPCB in its	
					consent conditions.	
					consent conditions.	

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
Hazardous Substances Handling & Storage	The Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000	1989	2000	State Forest Department	The facility shall identify all hazardous chemicals (toxic substances/ highly reactive substances/ explosive substances/ explosive substances/ flammable chemicals) used or handled onsite as per the criteria laid down in Part I of Schedule I (based on the toxicity) or listed in Column 2 of Part II of Schedule I or Column 2 of Schedule II, or Column 2 of Schedule III (if applicable) of MSIHC Rules, 1989	All
Storage and Handling of Petroleum products	License Requirements for On-site Petroleum Storage- The Petroleum Act 1934 (as amended) and Petroleum Rules, 2002	1934	2002	,	Applicable if "Petroleum", is stored in quantities exceeding the prescribed limits. Rules prescribe requirements pertaining to storage, handling and transportation of petroleum products. The Petroleum Act,1934 defines petroleum as: 2(a) "Petroleum" means any liquid hydrocarbon or mixture of hydrocarbons, and any inflammable mixture (liquid, viscous or solid) containing any liquid hydrocarbon; 2(b) "Petroleum Class A" means petroleum having a flash point below twenty-three degrees Centigrade; (bb) "Petroleum Class B" means petroleum having a flash point of twenty -three degrees Centigrade and above but below sixty-five degree Centigrade.; (bbb) "Petroleum Class C" means petroleum	All

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					having a flash point of	
					sixty -five degrees	
					Centigrade.	
					The facility is required	
					to obtain the necessary	
					license from the Chief	
					Controller of Explosives	
					(CCoE) by applying in	
					the prescribed format	
					along with the prescribed fees. The	
					license thus obtained	
					shall be renewed from	
					time to time to keep it	
					up to date.	
					Upon receipt of the	
					license, the site is	
					required to demonstrate	
					compliance to all the	
					conditions specified in	
					the license.	
Storage and	License	1884	2008	Chief	As per Rule 2(xxi) of the	Hvdro
Handling of	Requirement for	1004	_000	Controller,	Gas Cylinder Rules,	11) 010
Petroleum	Compressed Gas			The	2004 'Gas Cylinder' is	
products	Installations on			Petroleum	defined as 'closed metal	
	Site- The			and	container having a	
	Explosives Act,			Explosives	volume exceeding 500	
	1884 as			Safety	ml but not exceeding	
	amended			Organization	1000 liters intended for	
				,	the storage and	
				Government	transport of compressed	
				of India	gas but not including	
					any other such	
					container fitted to a	
					special transport or	
					under-carriage and	
					includes a composite	
					cylinder, however, the	
					water capacity of	
					cylinders used for	
					storage of CNG,	
					nitrogen, compressed	
					air, etc. may exceed	
					1000 litres up to 2500	
					liters provided the	
					diameter of such	
					cylinder does not	
					exceed 60 cm.' Apply to	
					the CCoE or the	
					Controller whose	
					jurisdiction within	
					which the site is located	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Opdate	Authority	Legislation	
		tion			for obtaining a license	
					for obtaining a license	
					to store and use gas	
					cylinders at the site, if	
					required. Upon receipt	
					of license, the facility	
					shall demonstrate	
					compliance with all	
					conditions specified in	
					the license.	
Storage and	Explosive Act	1884	2008	Chief	Persons already in	Hydro
Handling of	amended 2008			Controller,	business in respect of	
Petroleum				The	certain explosives to	
products				Petroleum	carry an such business	
				and	without license for a	
				Explosives	certain period -	
				Safety	Notwithstanding	
				Organization	anything in section 5 or	
				,	in the rules made	
				Government	thereunder where,	
				of India	immediately before the	
					commencement of the	
					Indian Explosives	
					(Amendment) Act,	
					1978, any person was	
					carrying on the business	
					of manufacture, sale,	
					transport, import or	
					export of any explosives	
					[for which no license	
					was required under this	
					Act before its	
					amendment by the	
					Indian Explosives	
					(Amendment) Act,	
					[Amendment] Act, 1978], then, such	
					person shall be entitled	
					to continue to carry on	
					such business without	
					license in respect of	
					such explosive -	
					(a) for a period of three	
					months from the date of	
					such commencement;	
					or	
					(b) if before the expiry	
					of the said period of	
					three months, such	
					person has made an	
					application for grant of	
					license under this Act	
					for such business in	
					such explosive, until the	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					final disposal of his application, whichever is later.]	
Health & Safety	Motor Vehicle Act,1988	1939	1989	Ministry of Road Transport and Highways	The Motor Vehicles Act, 1988 is an Act of the Parliament of India which regulates all aspects of road transport vehicles. The Act came into force from 1 July 1989. It replaced Motor Vehicles Act, 1939 which earlier replaced the first such enactment Motor Vehicles Act, 1914.[1] The Act provides in detail the legislative provisions regarding licensing of drivers/conductors, registration of motor vehicles, control of motor vehicles through permits, special provisions relating to	All
					state transport undertakings, traffic regulation, insurance, liability, offences and penalties, etc. For exercising the legislative provisions of the Act, the Government of India made the Central Motor Vehicles Rules	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
H & S	Factories Act,	1948	1987	Department	Section 6	All
Management	1948 as	-)+0	-)0/	of labor	Applicable to all	
8	amended up to				factories in India.	
	1987				luctorico in mulu.	
	-)0/				Rule 3 of the MFR, 1963	
					prescribes that a project	
					proponent is required to	
					apply for permission	
					from the Chief	
					Inspector of Factories,	
					to 'Construct, Extend,	
					or Take into Use any	
					Building as a Factory',	
					in prescribed Form 1, of	
					MFR, 1963.	
					It also prescribed that	
					the proponent also has	
					to apply for permission	
					for obtaining certificate	
					of stability issued by a	
					competent person in	
					respect of every	
					building to Chief	
					Inspector in Form 1-A	
					prescribed under Rule	
					3(c).	
					Per the provisions of	
					Rule 4 of MFR, 1963,	
					the occupier is required	
					to register the and	
					obtain a factory license	
					from the Chief	
					Inspector of Factories,	
					before starting to use	
					the premises as factory	
					or carrying on any	
					manufacturing	
					processes therein. This	
					license shall be renewed	
					from time to time in	
					order to keep it current.	
					The application (in	
					Form 2) for the	
					registration shall be	
					submitted in triplicate	
					for the registration	
					accompanied by	
					application in Form 3	
					for grant of license	
					before commencing the	
					manufacturing process.	
					License is granted by	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
	_	tion	_		_	
					the Chief Inspector of	
					Factories in Form	
					Number 4. A licensee is	
					required to have his	
					license amended if there	
					is a change in the name	
					of factory, or if the	
					factory for which the	
					license is granted	
					exceeds the limits	
					specified in the license	
					in regard to horse-	
					power of the number of	
					persons employed	
					which calls for a higher	
					license and renewal fee.	
					An application for the	
					same shall be submitted	
					to the Chief Inspector	
					so as to reach him	
					within a period of 30	
					days from the date the	
					event requiring	
					amendment of the	
					license occurs with	
					application stating the	
					nature of the	
					amendment and	
					reasons therefore.	
					Rule 3 of the MFR, 1963	
					prescribes that a project	
					proponent is required to	
					apply for permission	
					from the Chief	
					Inspector of Factories,	
					to 'Construct, Extend,	
					or Take into Use any	
					Building as a Factory',	
					in prescribed Form 1, of	
					MFR, 1963.	
					It also prescribed that	
					the proponent also has	
					to apply for permission	
					for obtaining certificate	
					of stability issued by a	
					competent person in	
					respect of every	
					building to Chief	
					Inspector in Form 1-A	
					prescribed under Rule	
					3(c).	

E&S Topics	Title of the	Date of	Date of		Sector	
	Legislation		Update	Authority	Legislation	
		tion				
					Per the provisions of	
					Rule 4 of MFR, 1963,	
					the occupier is required	
					to register the and	
					obtain a factory license	
					from the Chief	
					Inspector of Factories,	
					before starting to use	
					the premises as factory	
					or carrying on any	
					manufacturing	
					processes therein. This	
					license shall be renewed	
					from time to time in	
					order to keep it current.	
					The application (in	
					Form 2) for the	
					registration shall be	
					submitted in triplicate	
					for the registration	
					accompanied by	
					application in Form 3	
					for grant of license	
					before commencing the	
					manufacturing process.	
					License is granted by	
					the Chief Inspector of	
					Factories in Form	
					Number 4. A licensee is	
					required to have his	
					license amended if there	
					is a change in the name	
					of factory, or if the	
					factory for which the	
					license is granted	
					exceeds the limits	
					specified in the license	
					in regard to horse-	
					power of the number of	
					persons employed	
					which calls for a higher	
					license and renewal fee.	
					An application for the	
					same shall be submitted	
					to the Chief Inspector	
					so as to reach him	
					within a period of 30	
					days from the date the	
					event requiring	
					amendment of the	
					license occurs with	
					application stating the	

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		tion			nature of the amendment and	
					reasons therefore.	
I & S	The Petroleum	1934	2002	Department	Applicable if	All
lanagement	Act 1934 (as amended) and	201		oflabor	"Petroleum", is stored in quantities exceeding	
	Petroleum Rules, 2002				the prescribed limits.	
	1000				Rules prescribe requirements	
					pertaining to storage,	
					handling and transportation of	
					petroleum products. The Petroleum Act,1934	
					defines petroleum as:	
					2(a) " <i>Petroleum</i> " means any liquid hydrocarbon	
					or mixture of hydrocarbons, and any	
					inflammable mixture	
					(liquid, viscous or solid) containing any liquid	
					hydrocarbon;	
					2(b) " <i>Petroleum Class</i>	
					<i>A</i> " means petroleum having a flash point	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					below twenty-three	
					degrees Centigrade;	
					(bb) " <i>Petroleum Class</i>	
					<i>B</i> " means petroleum	
					having a flash point of	
					twenty -three degrees	
					Centigrade and above	
					but below sixty-five	
					degree Centigrade.;	
					(bbb) "Petroleum Class	
					C" means petroleum	
					having a flash point of	
					sixty -five degrees	
					Centigrade.'	
					0	
					The facility is required	
					to obtain the necessary	
					license from the Chief	
					Controller of Explosives	
					(CCoE) by applying in	
					the prescribed format	
					along with the	
					prescribed fees. The	
					license thus obtained	
					shall be renewed from	
					time to time to keep it	
					current.	
					current.	
					Upon receipt of the	
					license, the site is	
					required to demonstrate	
					compliance to all the	
					conditions specified in	
					the license.	
TOC	The Frenderices	1884	0004	Domontration		All
H&S	The Explosives	1004	2004	Department of labor	Per Rule 2(xxi) of the	All
Management	Act, 1884 as amended			of labor	Gas Cylinder Rules, 2004 ' <i>Gas Cylinder</i> ' is	
	amended				defined as 'closed metal	
					container having a	
					volume exceeding 500	
					ml but not exceeding	
					1000 litres intended for	
					the storage and	
					transport of compressed	
					gas but not including	
					any other such	
					container fitted to a	
					special transport or	
					under-carriage and	
					includes a composite	
					cylinder, however, the	
			1		water capacity of	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					cylinders used for	
					storage of CNG,	
					nitrogen, compressed	
					air, etc. may exceed	
					1000 litres up to 2500	
					litres provided the	
					diameter of such	
					cylinder does not	
					exceed 60 cm'	
					Apply to the Chief	
					Controller of Explosives	
					or the Controller whose	
					jurisdiction within	
					which the site is located	
					for obtaining a license	
					to store and use gas	
					cylinders at the site, if	
					required.	
					Upon receipt of license,	
					the facility shall	
					demonstrate	
					compliance with all	
					conditions specified in	
					the license.	
H & S	Factories Act,	1948	1987	Department	Section 7A (3)	All
Management	1948			of labour	Applicable to all	
					factories under the first	
					schedule under section	
					2(cb) or carrying out	
					processes or operation	
					declared to be	
					dangerous under	
					section 87 of the Act	
					shall prepare a written statement of his policy	
					in respect of health and	
					safety of workers at	
					work. As per RFR,1951,	
					Health and safety policy	
					is required to be	
					prepared for factory	
					where more than 50	
					workers are ordinarily	
					employed, or for	
					factories which are	
					declared to be	
					dangerous under	
					Section 87 or in	
		1			engaged in any	

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		uon			hazardous process	
					hazardous process under Section 2 (cb)	
H&S	Factories Act,	1948	1987	Department	Section 7A (3)	All
Management	1948			of labour	The H&S Policy should contain:	
					'(a) declared intention	
					and commitment of the	
					top management to	
					health, safety and	
					environment and	
					compliance with all	
					applicable statutory	
					requirements;	
					(b) organizational set	
					up to carry out the	
					declared policy clearly	
					assigning the	
					responsibilities at	
					different levels;	
					(c) arrangements for making the policy	
					effective'	
					In particular, the policy	
					should specify the	
					following:	
					'(a) arrangements for	
					involving workers;	
					(b) intention of taking	
					into account the H&S	
					performance of individuals at different	
					levels while considering	
					their career	
					advancement;	
					(c) fixing the	
					responsibility of the	
					contractors, sub-	
					contractors,	
					transporters and other	
					agencies entering the	
					premises;	
					(d) providing a resume of H&S performance of	
					the factory in its Annual	
					report;	
					(e) relevant techniques	
					and methods (safety	
					audits. risk assessments	

E&S Topics	Title of the	Date of		Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					etc.) for periodical	
					assessment of status on	
					health, safety and	
					environment and taking	
					all the remedial	
					measures;	
					(f) stating the intention	
					to integrate H&S into all	
					decision, including	
					those dealing with	
					purchase of plant,	
					equipment, machinery	
					and material as well as	
					selection and placement	
					of personnel;	
					(g) arrangement for	
					informing, educating	
					and training and	
					retaining its own	
					employees at different	
					levels, and the public	
					wherever required;	
					(h) obligations of	
					workers for promoting	
			0	D	health and safety.'	4.11
H&S	Factories Act,	1948	1987	Department	Section 7A (3)	All
Management	1948			of labour	A copy of the declared	
					Health and safety policy	
					signed by the occupier	
					shall be made available	
					to the Inspector having	
					jurisdiction over the	
					factory and to the Chief	
TOC	Eastonica Ast	10.49	100-	Domontosont	Inspector.	All
H&S	Factories Act,	1948	1987	Department of labour	Section 7A (3)	All
Management	1948			or labour	The policy should be made widely known	
					amongst employers by	
					displaying at	
					conspicuous places and	
					shall be made available	
					to all workers on	
					including contract	
					workers, apprentices,	
					transport workers,	
					suppliers, etc. and	
					should also be	
					communicated in any	
					other language which is	
					understood by majority	
					of workers.	
	1	1			OI WOINCIS.	1

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 7A (3) The policy should be updated whenever there is a change in processes or site operation having implications on the safety and health of workers and affected personnel should be adequately informed.	All
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 41 Safety Committee is required for all factories where more than 250 workers are employed or which is covered under the first schedule under section 2(cb) or carrying out processes or operation declared to be dangerous under section 87 of the Act. The facility shall constitute a safety committee for: (a) Assisting and co- operating with the management in achieving the aims and objectives outlined in the "Health and safety Policy" of the occupier; (b) Dealing with all matters concerning health, safety and environment and to arrive at practicable solution to problems encountered : (c) Creating safety awareness amongst all workers ; (d) Undertaking educational, training and promotional activities; (e) Discussing reports on safety environmental health surveys, safety audits risk assessment, emergency and disaster	All

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
		tion	_		-	
		tion			management plan and implementation of the recommendations made in the reports; (f) Carrying out health and safety surveys and identifying cause of accidents; (g) Looking into any complaint made on the likelihood of an imminent danger to the safety and health of the workers and suggesting corrective measures;	
					(h) Reviewing the implementation of the recommendations by it; and	
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 41 The tenure of the committee shall be two (2) years.	All
					Safety Committee shall meet as often as necessary but at least once in every quarter. The minutes of the meeting shall be recorded and produced to the Inspector on demand.	
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 40 B Applicable to all Factories in India	All
					At least one dedicated Safety Officer should be appointed at the facility in case the factory employs one thousand individuals or more (or if the State Government deems it required). Safety officer is also required for facilities which in opinion of the State Government is involved in manufacturing process or operation which	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					involves any risk of bodily injury, poisoning or disease, or any other hazard to health, to the persons employed in the factory.	
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 40 B The regulations prescribes qualifications of safety officer, appointment of safety officer, conditions of service, duties of safety officers and prohibition of performance of other duties. Safety officer should have following qualifications: a) Possesses a degree in any branch of engineering/technology and has practical experience of working in a factory in a supervisory capacity for at least 2 years or has degree in physics or chemistry or diploma in engineering/technology and has practical experience of working in a factory in a supervisory capacity for at least 5 years b) Possesses degree/diploma in industrial safety recognized by State Government; c) Has adequate knowledge of Marathi language. OR Possesses a recognized degree in engineering/technology and has practical experience of working in a factory in a supervisory capacity for at least 5 years b) Possesses	All

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	8	tion	-	5	0	
					in a factory in a supervisory capacity for at least 5 years or in training, education consultancy or research in field of accident prevention in any industry or institution. However exemption in terms of number if years of experience can be granted by Chief	
					Inspector for suitable person having	
					necessary qualifications.	
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 40 B Functions and duties of the Safety Committee shall include: a) Advising and	All
					assisting factory management and concerned departments for fulfilling statutory or	
					other obligations concerning prevention of personal injuries and maintaining safe	
					working environment. Planning and organizing measures necessary for effective	
					control of personal injuries. b) To advise on safety	
					aspects in all job studies and to carry out detailed job safety studies of selected jobs;	
					c) To check and evaluate effectiveness of action taken or	
					proposed to prevent personal injuries; d) Ensure availability of high quality Personal Protoctive Equipment	
					Protective Equipment (PPE); e) To provide advise on matters related to plant	

E&S Topics	Title of the	Date of Promulso		Competent		Sector
	Legislation	tion	Opdate	Authority	Legislation	
		uon			safety inspections and	
					to carry out inspections	
					to observe physical	
					conditions of work	
					practices and	
					procedures followed by	
					workers and render	
					advice to remove unsafe	
					physical conditions and	
					prevention of unsafe	
					actions by workers;	
					f) To provide advice on	
					matters related to	
					reporting and	
					investigation of	
					industrial accidents and	
					diseases.	
					g)To investigate	
					selected accidents;	
					h) To investigate cases	
					of industrial diseases	
					contracted and	
					dangerous occurrences	
					reportable under the	
					Rule 115 of MFR, 1963;	
					i) To advise on	
					maintenance of such	
					records up of as are	
					necessary relating to	
					accidents, dangerous	
					occurrences and	
					industrial diseases;	
					j) To promote setting up	
					of safety committees	
					and act as adviser and	
					catalyst to such	
					committees;	
					k) To organize in	
					association with	
					concerned departments	
					campaigns,	
					competitions, contest	
					and other activities	
					which will develop and	
					maintain the interest of	
					workers in establishing	
					and maintaining safe	
					working conditions;	
					l) To design and	
					conduct either	
					independently or in	
					collaboration with the	

E&S Topics	Title of the			Competent		Sector
	Legislation		Update	Authority	Legislation	
		tion				
					training department,	
					suitable training and	
					educational	
					programmes for	
					prevention of personal	
					injuries.	
					Safety officer should be	
					neither required nor	
					permitted to do any	
					work which is	
					inconsistent with or	
					detrimental to the	
					performance of duties	
					described above.	
H & S	Factories Act,	1948	1987	Department	Section 7 A (C)	All
Management	1948			of labour	Applicable to all	
					factories in India	
					The regulations	
					prescribe general duty	
					of an occupier	
					pertaining to provision	
					of information,	
					instruction, training	
					and supervision in	
					order to ensure the	
					health and safety of all	
					workers employed at a	
					factory.	
					Special work	
					instructions, training	
					and equipment shall be	
					provided to personnel	
					engaged in hazardous	
					operations including	
					hot work, confined	
					spaces entry, live	
					electrical work, elevated	
					work, hazardous	
					material handling etc.	
					to ensure their safety	
					during such operations.	
					auring such operations.	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion	opunto			
H & S Management	Factories Act, 1948	1948	1987	Department of labour	These regulation prescribe the rights of workers to obtain adequate information, equipment and training so that they are aware of and equipped against the hazards associated with various substances, processes and work situations at the site. The site management must sponsor and arrange for the provision of health and safety training to its workers within the	All
H & S Management	,	1948 1987	Department of labour	It is the duty of the facility management to maintain, and make available for reference to the concerned authorities on request, the necessary records as prescribed under the provisions of the	All	
					Factories Act, 1948. The registers and records to be maintained in a factory under the provisions of Factories Act, 1948 should be prepared either in English or any other language understood by most of the workers in the factory.	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
H & S	Factories Act,	tion 1948	1987	Department	Section 41 B and 41 C	All
Management	1948	1940	190/	of labour	Applicable to all	111
management	1940			oriabour	factories in	
					Maharashtra involving	
					hazardous processes	
					and using any	
					hazardous substances in	
					its site operations	
					Prepare the Material	
					Safety Data Sheet	
					(MSDS) in respect of	
					every hazardous	
					substance or material	
					handled in the	
					manufacture,	
					transportation and	
					storage in the factory.	
					MSDS should be	
					accessible upon request	
					to workers for	
					reference.	
					The MSDS shall include	
					the information	
					regarding identity used	
					on the label; hazardous	
					ingredients of the	
					substance; physical and chemical	
					characteristics; physical	
					hazards of substance,	
					including the potential	
					for fire, explosion and	
					reactivity; health	
					hazards; primary routes	
					of entry; permissible	
					exposure limits as	
					prescribed in Section	
					41F of Factories	
					Act,1948 or as	
					prescribed by the	
					manufacturer;	
					applicable precautions	
					for safe handling and	
					use of hazardous	
					substance including	
					protective measures	
					during repairs and	
					maintenance of	
					contaminated	
					equipment, procedures	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
	0	tion	-	v	0	
					for cleanup of spills and	
					leaks; appropriate	
					engineering controls;	
					emergency and first aid	
					procedures; date of	
					MSDS preparation;	
					name, address and	
					telephone number of	
					manufacturer,	
					importer, occupier	
					distributing MSDS and	
					other information as	
					mentioned in the	
					schedule attached to	
					Rule 65-N of RFR, 1951. Labelling of every	
					hazardous container	
					should clearly identify	
					contents of container;	
					name and address of	
					the manufacturer;	
					physical and health	
					hazards; and	
					recommended PPE	
					needed to work safely	
					with the hazardous	
					substance.	
I & S	Factories Act,	1948	1987	Department	Section 108	All
Aanagement	1948			of labour	In addition to the	
					notices required to be	
					displayed in any factory,	
					a notice containing the	
					abstracts of the	
					Factories Act, 1948 and	
					of the rules made	
					thereunder, should also	
					be displayed at a	
					prominent location in	
					the format prescribed	
					under Form 26 of the	
					MFR, 1963	
					All notices displayed at	
					the factory should be in	
					English and in language	
					understood by the	
					majority of the workers	
					in the factory. All such	
					notices should be	
					displayed at	
					conspicuous location at	
	1	1	1	1	r	1

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
		uon			entrance to the factory and should be maintained in a clean and legible condition.	
H & S Management	Factories Act, 1948	1948	1987	Department of labour	Section 7A and 7B All persons who are required to supervise the handling of hazardous substances shall possess the following qualifications and experience: (a) Graduate in Chemical Engineering or Technology with specialized knowledge in respect of processes	All
H & S Management	Factories Act, 1948	1948	1987	Department of labour	given in the schedule. Section 41B and 41C The occupier should supply (in the form of leaflets, booklets and display of cautionary notices) to all the workers (individually) the following information (in a language understood by the majority of the workers) in relation to the handling of hazardous materials or substances in the manufacture, transportation, storage and other processes: (a) requirements of section 41B, 41C and 41H of the Act; (b) a list of 'Hazardous Processes' carried on in the factory; (c) location and availability of all material data sheet as per rule 65-N. (d) physical and health hazards arising from	All

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation		Update	Authority	Legislation	
		tion				
					handling of substances;	
					(e) measures taken by	
					the occupier to ensure	
					safety and control of	
					physical and health	
					hazards.	
					(f) measures to be taken	
					by the workers to	
					ensure safe handling	
					storage and transportation of	
					hazardous substance	
					(g) personal protective	
					equipment required to	
					be used by workers	
					employed in 'hazardous	
					process' or 'dangerous	
					operations';	
					(h) meaning of various	
					labels and marketing	
					used on the containers	
					of hazardous substances	
					as provided under rule	
					73-M;	
					(i) signs or any	
					symptoms likely to be	
					manifested on exposure	
					to hazardous substances	
					and to whom to report;	
					(j) measures to be taken	
					by the workers in case	
					of any spillage or	
					leakage of a hazardous	
					substance;	
					(k) role of workers vis-	
					à-vis the emergency	
					plan of the factory, in	
					particular and the	
					evacuation procedures;	
					(l) Any other	
					information considered	
					necessary by the	
					occupier to ensure	
					safety and health of	
				_	workers.	
H & S	Factories Act,	1948	1987	Department	Section 41B	All
Management	1948			of labour	The occupier of every	
					factory involving a	
					'hazardous process'	
					shall furnish, in writing,	
					to the Chief Inspector;	
					(1) A copy of all the	

E&S Topics	Title of the Legislation		Competent Authority	Summary of the Legislation	Sector
				information furnished to the workers, to general public and to district emergency authority. (2) A copy of compilation of material safety data sheets in respects of hazardous substances used, produced or stored in the factory shall be furnished to the Chief Inspector, and the local Inspector. (3) The occupier shall also furnish any other information asked for by the Chief Inspector from time to time for the purpose of this Act and rule made thereunder.	

E&S Topics	Title of the Legislation	Promulga		Competent Authority	Summary of the Legislation	Sector
Medical	Eastories Ast	tion	109=	Dopontmont	Section 41C	All
Surveillance	Factories Act,	1948	1987	Department of labour		All
Surveillance	1948			or labour	Every factory carrying	
					on 'hazardous process'	
					shall provide and	
					maintain, in good order,	
					an on-site Occupational	
					Health Centre with the	
					following services and	
					facilities as per scale	
					laid down thereunder:	
					(a) For factories	
					employing up to 50	
					workers-	
					(i) the services of	
					Factory Medical Officer	
					on retainership basis, in	
					his clinic to be notified	
					by the occupier. He will	
					carry out the pre-	
					employment and	
					periodical medical	
					examination as	
					stipulated in	
					rule 73-V and render	
					medical assistance	
					during any emergency;	
					(ii) a minimum of 5	
					persons trained in first-	
					aid procedures amongst	
					whom at least one shall	
					always be available	
					during the working	
					period;	
					(iii) a fully equipped	
					first-aid box,	
					(b) For factories	
					employing 51 to 200	
					workers,-	
					(i) an Occupational	
					Health Centre having a	
					room with a minimum	
					floor area of 15 sq.m.	
					with floors and walls	
					made of smooth and	
					impervious surface and	
					with adequate	
					illumination and	
					ventilation as	
					well as equipment as	
					per the schedule	
					annexed to this rule;	
					(ii) a part-time Factory	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					Medical Officer shall be	
					in over-all charge of the	
					Centre who shall visit	
					the factory at least twice	
					in a week and whose	
					services shall be readily	
					available during	
					medical	
					emergencies;	
					(iii) one qualified and	
					trained dresser-cum-	
					compounder on duty	
					throughout the working	
					period;	
					(iv) a fully equipped	
					First-aid box in all the	
					departments,	
					(c) For factories	
					employing above 200	
					workers,-	
					(i) one full-time Factory	
					Medical Officer for	
					factories employing	
					upto 500 workers and	
					one more medical	
					officer for every	
					additional 1,000	
					workers or part thereof;	
					(ii) an Occupational	
					Health Centre having at	
					least 2 rooms each with	
					a minimum floor area of	
					15 sq.m. with floors and	
					walls made of smooth	
					and impervious surface	
					and adequate illumination and	
					ventilation as well as	
					equipment as per the	
					schedule annexed to	
					this rule;	
					(iii) there shall be one	
					nurse, one dresser-cum-	
					compounder and one	
					sweeper-cum-ward boy	
					throughout the working	
					period;	
					(iv) the Occupational	
					Health Centre shall be	
					suitably equipped to	
					manage medical	
					emergencies.	

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		tion				
					 (i) one full-time Factory Medical Officer for factories employing up to 500 workers having qualification prescribed under Rule 65 (SS). (ii) an Occupational Health Centre having at least 2 rooms each with a minimum floor area of 15 sq. meter with floors and walls made of smooth and impervious surface and adequate illumination and ventilation as well as equipment as per the schedule annexed to this rule. (iii) there shall be one nurse, one dresser-cum- compounder and one sweeper-cum-ward boy throughout the working period; (iv) the Occupational Health Centre shall be suitably equipped to manage Medical emergencies. 	
Medical Surveillance	Factories Act, 1948	1948	1987	Department of labour	Section 41E When any accident which results in the death of any person or which results in such bodily injury to any person as is likely to cause his death, or any dangerous occurrence specified in the schedule annexed to the Rule 115 of MFR, 1963 takes place in a factory, the manager of the factory within 4 hours shall forthwith send a notice thereof by telephone, special messenger or telegram to the Inspector	All

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
		tion	-	· · ·	Ū	
					Administrative Medical	
					Officer, Employees	
					State Insurance	
					Scheme, Bombay,	
					appointed as Additional	
					Inspector under the Act,	
					District Magistrate or	
					Sub-Divisional	
					Magistrate, the Officer-	
					in-charge of the nearest	
					police station, and the	
					nearest relatives of the	
					injured or deceased	
					person. Any such notice	
					shall be confirmed by	
					the facility manager to	
					the mentioned	
					authorities within 12	
					hours of the accident or	
					dangerous occurrence	
					by sending them a	
					written report in Form	
					24 in the case of an	
					accident or in Form 16	
					appended to Employees'	
					State Insurance	
					(General) Regulations,	
					1950 and in Form 24 A	
					in the case of a	
					dangerous occurrence	
					which has not resulted	
					in any bodily injury to	
					any person.	
Aedical	Factories Act,	1948	1987	Department	Section 88	All
Surveillance	1948	<i>,</i>	, ,	oflabour	When any accident or	
					dangerous occurrence	
					specified in the	
					schedule takes place in	
					a factory and it causes	
					such bodily injury to	
					any person as prevents	
					the person injured from	
					working for a period of	
					48 hours or more	
					immediately following	
					the accident or the	
					dangerous occurrence,	
					as the case may be, the	
					manager of the factory	
					shall send a report	
					thereof to the Inspector	
			1		in Form 24 or Form No.	1

E&S Topics	Title of the Legislation	Promulga		Competent Authority	Summary of the Legislation	Sector
		tion				
					16 appended to	
					Employees' State	
					Insurance (General)	
					Regulations, 1950	
					within 24 hours after	
					the expiry of 48 hours	
					from the time of the	
					accident or the	
					dangerous occurrence;	
First Aid	Factories Act,	1948	1987	Department	A notice in Form 25	All
	1948			of labour	should be sent	
					forthwith to the Chief	
					Inspector, Medical	
					Inspector of Factories	
					and the Administrative	
					Medical Officer,	
					Employees' State	
					Insurance Scheme,	
					Bombay, appointed as	
					Additional Inspector	
					under the Act by the	
					manager of a factory in	
					which there occurs a	
					case of lead,	
					phosphorous, mercury,	
					manganese, arsenic,	
					carbon disulphide or	
					benzene poisoning or	
					poisoning by nitrous,	
					fumes or by halogens or	
					halogen derivatives of the hydrocarbons of the	
					aliphatic series; or of	
					chrome ulceration,	
					anthrax silicosis, toxic	
					anaemia toxic jaundice	
					primary optheliomatous	
					cancer of the skin or	
					pathoilogical	
					manifestations due to	
					radium or other radio-	
					active substances or X-	
					rays.	
First Aid	Factories Act,	1948	1987	Department	Section 45	All
	1948			of labour	Every factory should be	
					provided with first aid	
					boxes or cupboards	
					distinctively marked	
					with a red cross on a	
					white background,	
					placed at convenient	
					locations in the factory.	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga			Legislation	
	_	tion				
					 First aid boxes 	
					should be maintained	
					by regular	
					replenishments of its	
					contents and nothing	
					except the prescribed	
					content should be kept	
					in first aid boxes.	
					 Each first aid box 	
					should be kept in charge	
					of a separate	
					responsible person	
					(who holds a Degree in	
					First aid treatment	
					recognized by the State	
					Government), who shall	
					be available during the	
					working hours of the	
					factory.	
					 The content of the 	
					first aid boxes should be	
					as prescribed under	
					Rule 76 of MFR,	
					1963and should be as	
					per the number of	
					^	
irst Aid	Factories Act,	10.49	1097	Department	persons employed. Section 45	All
iist Alu		1948	1987	of labour	The first aid boxes or	All
	1948			or labour		
					cup-boards shall be	
					distinctively marked with a red cross on	
					white background and	
					shall contain the	
					following equipments. The number and	
					content of these	
					equipments should be as prescribed under	
					Rule 76 of MFR, 1963.:-	
					(i) Small sterilized	
					dressings.	
					(ii) Medium size	
					sterilized dressings	
					0	
					(iii) Large size sterilized	
					dressings.	
					(iv) Large size sterilized	
					burn dressings.	
					(v) Packets of sterilized	
					cotton wool.	
					(vi) A snake-bite lancet.	
					(vii) One Pair of	
		1	1	1	scissors.	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	Legislation	tion	opuate	Authority	Legislation	
					(viii) Bottles of	
					Potassium Permagnate	
					crystals	
					(ix) Bottle containing a	
					two percent alcoholic	
					solution of iodine	
					(x) Bottle of Sal-volatile	
					having the dose and	
					mode of administration	
					indicated on the label.	
					(xi) First-aid leaflet	
					issued by the	
					Directorate General of	
					Factory Advice Service,	
					Government of India.	
					(xii) A bottle containing	
					100 tablets (each of 5	
					grains) of aspirin or any	
					other analgesic.	
					(xiii) Roller Bandages	
					ten cms. wide	
					(xiv) Roller Bandages	
					five cms. wide	
					(xv) Rolls of adhesive	
					Plaster	
					(xvi)Triangular	
					bandages.	
					(xvii) Two packets of	
					safety pins	
					(xviii) A supply of	
					suitable splints.	
					(xix) One Torniquet.	
First Aid	Factories Act,	1948	1987	Department	Section 45	All
ii st Alu	1948	1940	190/	of labour	Notice containing the	лп
	1940			of labour	names of the persons	
					working within the	
					Ũ	
					precincts of the factory who are trained in first-	
					aid treatment and who	
					are in-charge of the	
					first-aid boxes or	
					cupboards shall be	
					pasted in every factory	
					at a conspicuous place	
					and near each such box	
					or cupboard. The notice	
					shall also indicate work-	
					room where the said	
					person shall be	
					available. The name of	
					the nearest hospital and	
		1	1		its telephone number	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	U	tion	-	Ū	5	
					shall also be mentioned prominently in the said notice. Notice giving name, address and telephone number of medical practitioner in charge	
					shall be displayed in the ambulance room. The name and telephone number of the nearest hospital and its telephone number shall	
					also be mentioned prominently in the said notice.	
First Aid	Factories Act, 1948	1948	1987	Department of labour	Section 45 In every factory wherein more than 500 workers are ordinarily employed there shall be provided and maintained an ambulance room of the prescribed size, containing the prescribed equipment and in the charge of such medical and nursing staff as may be prescribed. Every ambulance room should be under the charge of at least one whole time qualified medical practitioner (means a person holding qualification granted by an authority specified in the Schedule to the Indian Medical Degrees Act, 1916) assisted by at least one qualified nurse or dresser-cum- compounder and one	All
					nursing attendant in each shift. The ambulance room shall be separate from the rest of the factory and shall be used only	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					for the purpose of first aid treatment and rest.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 Processes, storages, equipment, plant etc. involving serious explosion and serious fire hazards shall be located in segregated buildings where equipments are so arranged that minimum number of people are exposed to such hazards at any one time.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 All industrial processes involving serious fire hazard should be separated from one another by walls of fire resistant construction.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 Ventilation ducts, pneumatic conveyors and similar equipment involving a serious fire risk should be provided with flame arresting or automatic fire extinguishing appliances, or fire resisting dampers, electrically inter-locked with heat sensitive/smoke detractors and the air- conditioning plant system	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 In all workplaces having serious fire or flash hazards, passages between machines, installation or piles of material should be at least 90 cms wide. For	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					storage piles, the clearance between the ceiling and the top of the pile should not be less than 2 m.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 Protection against lightening should be provided for buildings in which highly flammable substances are stored, storage tanks containing oils, paints or other flammable liquids are present.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 All explosives shall be handled, transported, stored and used as per Indian Explosives Act, 1984 The facility should take adequate precaution where there is a danger of fire or explosion from accumulation of flammable or explosive substances in air.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 The facility shall take adequate precaution to ensure ventilation and avoid formation of air pockets where the materials are likely to induce spontaneous ignition.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 Compressed gas cylinders may only be stored in open if they are protected against excessive variation of temperature, direct rays of sun, or continuous dampness. Such cylinders shall never be stored near highly flammable substances furnaces or hot processes.	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Legislation	Sector
					The room where such cylinders are stored shall have adequate ventilation.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 The facility shall take all necessary precautions to ensure fire safety in parts of the buildings where flammable liquids are present. Not more than 20 liters of flammable liquids having a flash point of 210C or less than be kept or stored in any work room.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 The facility shall ensure that effective steps are taken for removal or prevention of the accumulation in the air or flammable dust, gas, fume or vapour to an extent which is likely to be dangerous.	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
Emergency	THE	1996	NA	MoEF	In exercise of the power	
Preparedness	CHEMICAL	1990	INA	MOEL	conferred by Section 6,	
-					-	
& Response	ACCIDENTS				8 and 25 of the	
	(EMERGENCY				Environment	
	PLANNING,				(Protection) Act, 1986	
	PREPAREDNES				(29 of 1986), the	
	S,				Central Government	
	AND				hereby makes the	
	RESPONSE)				following rules, namely	
	RULES, 1996				1. Short Title and	
					Commencement-(1)	
					These rules may be	
					called the Chemical	
					Accidents (Emergency	
					Planning, Preparedness,	
					and Response) Rules,	
					1996.	
					(2) They shall come into	
					force on the date of	
					their publication in the	
					Official Gazette.	
					2. Definitions In these	
					rules unless the context	
					otherwise requires,-	
					a. "chemical accident"	
					means an accident	
					involving a fortuitous,	
					or Sudden or	
					unintended occurrence	
					while handling any	
					hazardous chemicals	
					resulting in continuous,	
					intermittent or repeated	
					exposure to death, or	
					injury to, any person or	
					damage to any property	
					but does not include an	
					accident by reason only	
					of war or radio-activity;	
					(b) "hazardous	
					chemical" means,-	
					i. any chemical which	
					satisfies any of the	
					criteria laid down in	
					Part I of Schedule 1 or is	
					listed in Part 2 of the	
					said schedule;	
					(ii) any chemical listed	
					in Column 2 of	
					Schedule 2;	
					(iii) any chemical listed	
					in Column 2 of	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga			Legislation	
	Ū	tion	-	Ū	C	
					Schedule 3;	
					(c) "industrial activity"	
					includes an operation or	
					process,-	
					i. carried out in an	
					industrial installation	
					referred to in Schedule -	
					4 involving or likely to	
					involve one or more	
					hazardous chemicals;	
					i. on-site storage or on-	
					site transport which is	
					associated with that	
					operation or process as	
					the case may be;	
					(iii) isolated storage;	
					(iv) pipeline;	
					d. "industrial pocket"	
					means any industrial	
					zone ear-marked by the	
					Industrial Development	
					Corporation of the State	
					Government or by the	
					State Government;	
					e. "isolated storage"	
					means,- storage of a	
					hazardous chemical	
					other than storage	
					associated with an	
					installation on the same	
					site specified in	
					Schedule 4 where that	
					storage involves at least	
					the quantities of that	
					chemical set out in	
					Schedule-2;	
					f. "major chemical	
					accident" means, - an	
					occurrence including	
					any particular major	
					emission, fire or	
					explosion involving one	
					or more hazardous	
					chemicals and resulting	
					from uncontrolled	
					developments in the	
					course of industrial	
					activity or	
					transportation or due to	
					natural events leading	
					to serious effects both	
					immediate or delayed,	
					miniculate of uclayeu,	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation		Update	Authority	Legislation	
		tion				
					inside or outside the	
					installation likely to	
					cause substantial loss of	
					life and property	
					including adverse	
					effects on the	
					environment;	
					g. "Major Accident	
					Hazards (MAH)	
					Installations" means,	
					isolated storage and	
					industrial activity at a	
					site, handling	
					(including transport	
					through carrier or	
					pipeline) of hazardous	
					chemicals equal to or, in	
					excess of the threshold	
					quantities specified in	
					column 3 of Schedule 2	
					and 3 respectively;	
					h. "Manufacture,	
					Storage and Import of	
					Hazardous Chemical,	
					Rules" means, - the	
					Manufacture, Storage	
					and Import of	
					Hazardous Chemicals	
					Rules, 1989, published	
					in the notification of	
					Government of India in	
					the Ministry of	
					Environment & Forests	
					No. S.0.966 (E), dated	
					27 1h November, 1989;	
					i. "off-site emergency	
					plan" means,- the off-	
					site emergency plan	
					prepared under rule 14	
					of the Manufacture,	
					Storage and Import of Hazardous Chemicals	
					Rules;	
					j. "pipeline" means,- a	
					pipe (together with any	
					apparatus and works	
					associated therewith) or	
					system of pipes	
					(together with any	
					apparatus and works	
					associated therewith)	
					for the conveyance of a	

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		tion			hazardous chemical other than a flammable gas as set out in column 2 of Part 11 of Schedule 1, at a pressure of less than 8 bars absolute; k. "site" means,- any location where hazardous chemicals are manufactured or processed, stored, handled, used, disposed of and includes the whole of an area under the control of an occupier and includes pier, jetty or similar structure whether floating or not; l. "transport" means movement of hazardous chemicals by any means over land, water or air.	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	In every room of a factory there shall be sufficient exits for safe escape of occupants under fire and emergency. The exits shall be clearly visible and suitably	All
					illuminated in case of failure of normal source of electric supply. The exits shall be marked in a language understood by the majority of the workers.	

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		tion		-	- 10	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Lifts, escalators and revolving doors shall not be considered as exits for use under emergency situations.	All
					All exits shall provide continuous means of egress to the exterior of a building or to an exterior open space leading to a street	
					Exits shall be so located that the travel distance shall not exceed 30 meters. in case of factories where highly hazardous materials are stored or used, travel distance shall not exceed 22.5 meters.	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Every hoist way or lift way inside the facility shall be completely enclosed with fire resistant material, with the provision of a vent at the top.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Every stairway in the facility, which provides emergency access in case of fire, shall be provided with a substantial handrail on each open side of the stairway.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	No fire escape stair shall be constructed at an angle greater than 45 degrees.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Fire resistant doors or roller shutters are to be provided along the escape routes to prevent the spread of fire and smoke, particularly at the entrance of lifts or stairs.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	The minimum width of an internal staircase shall be 100	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					centimeters. The minimum width of treads without nosing shall be 25 centimeters for an internal staircase. The treads shall be constructed and maintained in a manner	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	of labour	to prevent slipping The maximum height of a riser shall be 19cm and the number of risers shall be limited to 12 perflight. Firmly supported handrails with a minimum height of 100 centimeters shall be provided to the stairways	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	No ramps with slope of more than 1 in 10 shall be used in place of staircases. If at all they are used for any other purposes, they shall be surfaced with non- slipping material	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	In every room of a factory sufficient number of exits shall be provided to permit the safe escape of occupants in case of fire or emergency. These exits shall be maintained free from any obstruction	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Exits shall be so placed that the travel distance to reach from any point on the floor is not more than 30 meters. In case of factories where high hazard materials are stored or used, the travel distance to the exit shall not exceed 22.5 meters. There shall be atleast two ways of escape from every room, except	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					the point of access to these exits are protected from areas of high hazard.	
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	Every storage area shall have access to at least one means of exit which can be readily opened	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	No exit doorway shall be less than 100 cm in width and 200 cm in height	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	No exit door shall open immediately upon a flight of stairs. A landing at least 1.5m X 1.5m in size shall be provided in the stairway at each door way.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	The exit doorways shall be openable from the side which they serve without the use of keys.	All
Emergency Preparedness & Response	Factories Act, 1948	1948	1987	Department of labour	The installation of a fire alarm is required if the total capacity of the building is over 500 persons, or if more than 25 persons are employed above or below the ground floor. No manual alarm system is required in single storey buildings where the entire area is undivided and all parts thereof are clearly visible to all occupants.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) In every factory there shall be provided and maintained the following fire-fighting equipments:- (a) Two fire buckets of not less than 9 litres capacity for every 100 square metres of floor area subject to a minimum of four buckets on each floor. (b) Every bucket	All

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion				
					provided under this	
					sub-rule shall-	
					(i) conform to	
					appropriate Indian	
					Standard Specification,	
					(ii) be kept in a position	
					approved by the	
					Inspector and shall be	
					used for no other	
					purpose than fire	
					extinguishing, and	
					(iii) at all times be kept	
					full of water but if the	
					principal fire risk arises	
					from inflammable	
					liquid or other	
					substances where water	
					cannot be used, it shall	
					be kept full of clean fine	
					dry sand, stone dust or	
					other inert material.	
ire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
ne balety	1948	1940	1907	of labour	Every portable fire	111
	1940			oriabour	extinguisher shall-	
					(i) conform to the	
					appropriate Indian	
					Standards	
					Specifications;	
					(ii) be kept charged ready for use properly	
					mounted in a position	
					approved by the	
					Inspector and	
					accompanied by the	
					maker's printed	
					instructions for its use;	
					and	
					(iii) be examined, tested	
					or discharged	
					periodically in	
					accordance with the	
					maker's	
					recommendation.	
					Facility shall maintain	
					sufficient number of	
					spare charges for each	
					type of extinguisher	
					provided in the factory	
					with a minimum of 12	
					spare charges always in	
					stock and readily	
		1	1		available.	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					- Each factory shall detail a trained officer who shall be responsible for the proper maintenance and upkeep of all fire- fighting equipments.	
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) All fire extinguishers shall be subjected to routine maintenance, inspection and testing to be carried out by property trained persons. Periodicity of the routine maintenance, inspection and test shall conform to the relevant Indian Standards.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) Adequate provision of water supply for firefighting purposes shall be made and where the estimated amount of water, required in liters per minute is more than 550 lpm or more, power driven trailer pumps (and associated equipments) of adequate capacity shall be provided and maintained	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) Trailer pumps shall be housed in a separate shed which shall be sited close to a principal source of water supplies in the vicinity of the main risk of the factory.	All
Fire Safety	Factories Act, 1948	1948	1987	Department of labour		All

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
		tion	_		-	
					whichever is less, shall	
					be in form of static	
					tanks of adequate	
					capacities (not less than	
					4,50,000 liters each)	
					distributed round the	
					factory with due regard	
					to the potential fire	
					risks in the factory.	
					Where piped supply is	
					provided, the size of the	
					main shall not be less	
					than 15 centimeters	
					diameter and it shall be	
					capable of supplying a	
					minimum of 4500 liters	
					per minute at a pressure	
					of not less than 7	
					kilograms per square	
					centimeter.	
Fire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
	1948			of labour	All trailer pumps	
					including the	
					equipment provided	
					with them and the	
					vehicles for towing	
					them shall be	
					maintained in good	
					condition and subjected	
					to periodical inspection	
					and testing as required.	
Fire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
C C	1948			of labour	All first aid and other	
					fire fighting equipments	
					shall be in charge of a	
					trained responsible	
					person.	
Fire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
0	1948			of labour	Simple and special	
					instructions shall be	
					framed to ensure that	
					effective	
					measures will be carried	
					out in cases of	
					emergency, to deal with	
					possible escapes of	
					inflammable explosive,	
					toxic or deleterious	
					gases, vapours, liquid or	
					dusts. These	
					instructions shall be in	
					the language	

E&S Topics	Title of the	Date of	Date of	Competent		Sector
_	Legislation	Promulga	Update	Authority	Legislation	
	U	tion	-	Ŭ		
					understood by the	
					majority of the workers	
					and shall be displayed	
					in bold letters at	
					prominent places in the	
					different sections	
					concerned. All	
					concerned workers shall	
					be suitably trained and	
					fully instructed in the	
					prompt action to be	
					taken in such	
					emergencies and also in	
					the general hazards	
					encountered in this	
					process.	
Fire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
ine buiety	1948	1940	1907	of labour	The buildings, plants,	
	-940				roads, passageways etc.	
					on site should be so laid	
					out and maintained that	
					it facilitates	
					unobstructed access for	
- ~ ~ .			-	_	fire fighting.	
Fire Safety	Factories Act,	1948	1987	Department	Section 38 (1)	All
	1948			of labour	If fire is due to	
					inflammable liquids or	
					grease or paint, the	
					extinguishers to be	
					provided shall consist of	
					foam carbon	
					tetrachloride, dry	
					powder, carbon dioxide,	
					chlorobromo methane	
					or other equivalent	
					type, as appropriate. In	
					case of inflammable	
					liquids soluble in water,	
					the extinguishers shall	
					be alcohol type foam.	
					Where fires may occur	
					due to electrical	
					equipment, the	
					extinguisher to be	
					provided at the scale	
					laid in clause (i) shall	
					consist of carbon	
					dioxide, dry powder,	
					carbon tetrachloride or	
					equivalent types. If fire	
					may occur due to	
					magnesium, aluminium	
		1			magnesium, aiummulli	1

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				or zinc dust or shavings or other ignitable metals, the use of liquids, carbon dioxide and foam type extinguishers shall be prohibited and an ample supply of clean, fine dry sand, stone dust or other inter material shall be kept ready for segregating such fires.	
Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) All other extinguishers shall be charged appropriately in accordance with the instructions of the manufacturer.	All
Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) First-aid fire fighting equipment shall be mounted in a position approved by the Inspector.	All
Factories Act, 1948	1948	1987	Department of labour	Section 38 (1) First aid fire fighting equipments shall be provided in each workplace, as prescribed under Schedule of Rule 71B of MFR, 1963	All
Factories Act, 1948	1948	1987	Department of labour	Section 87 Schedule XVII of Rule 114 of MFR, 1963 defines "Asbestos" as: "any fibrous silicate mineral and any admixture containing actionlite, amosite, anthophyllite, drysotile, crocidolite, tremolite or any mixture thereof, crude, crushed or opened" Asbestos shall be used only when its risks can	All
	Legislation Factories Act, 1948 Factories Act, 1948 Factories Act, 1948	LegislationPromulga tionImage: Sector S	LegislationPromulga tionUpdateImage: Second stress of the	LegislationPromulga tionUpdate AuthorityImage: Author of the second	LegislationPromulga tionUpdate VinoAuthorityLegislationImage: Construct on the second

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	U	tion	-	, i i i i i i i i i i i i i i i i i i i	_	
					shall be replaced, when	
					technically feasible, by	
					other materials or the	
					use of alternative	
					technologies,	
					scientifically evaluated	
					as harmless or less	
					harmful.	
Restricted	Factories Act,	1948	1987	Department	Section 87	All
Materials (e.g.	1948			of labour	The number of persons	
Asbestos,					assigned to work	
PCBs, ODS)					involving exposure to	
					asbestos and the	
					duration of their	
					exposure shall be kept	
					to the minimum	
					required for the safe	
					performance of the	
					task;	
					The error of estivity	
					The area of activity	
					which involve exposure to asbestos shall be	
					clearly demarcated and	
					indicated by warning	
					signs restricting	
					unauthorized access.	
					ullautionizeu access.	
					Sufficient and suitable	
					exhaust draught	
					arrangements shall be	
					provided whenever a	
					process involving the	
					emission of asbestos	
					dust is undertaken.	
					Arrangements shall be	
					made to prevent	
					asbestos dust	
					discharged from	
					exhaust apparatus being	
					drawn into the air of	
					any work room.	
					The asbestos bearing	
					dust removed from any	
					workroom by the	
					exhaust system shall be	
					collected in suitable	
					receptacles or fitter	
					bags which shall be	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					isolated from all work areas.	
Restricted Materials (e.g. Asbestos, PCBs, ODS)	Factories Act, 1948	1948	1987	Department of labour	Section 87 All loose asbestos shall, while not in use, be kept in suitable closed receptacles which prevent the escape of asbestos dust there form. Such asbestos shall not be distributed within a factory except in such receptacles or in a totally enclosed system of conveyance.	All
Restricted Materials (e.g. Asbestos, PCBs, ODS)	Factories Act, 1948	1948	1987	Department of labour	System of conveyance. Section 87 Adequate and suitable PPE (Personal Protective Equipment) (including protective clothing, breathing apparatus etc.) shall be provided to workers handling asbestos materials	All
Restricted Materials (e.g. Asbestos, PCBs, ODS)	Factories Act, 1948	1948	1987	Department of labour	Section 87 No young person shall be employed in any of the process covered by Schedule XVII of Rule 114 of MFR, 1963	All
Restricted Materials (e.g. Asbestos, PCBs, ODS)	Factories Act, 1948	1948	1987	Department of labour	Section 87 No person shall smoke in any area where processes covered by this schedule are carried on. A notice in the language understood by majority of the workers shall be posted in the plant	All

E&S Topics	Title of the Legislation	Promulga		Competent Authority	Summary of the Legislation	Sector
		tion				
					prohibiting smoking as	
					such areas.	
Restricted	Factories Act,	1948	1987	Department	Section 87	All
Materials (e.g.	1948	1940	1907	of labour	Cautionary notice shall	
Asbestos,	-940			or habour	be displayed at the	
PCBs, ODS)					approaches and along	
CD3, CD3)					the parameter of every	
					asbestos processing	
					area to warn all persons	
					regarding-	
					88	
					(a) hazards to health	
					from asbestos dust.	
					(b) need to use	
					appropriate equipment.	
					(c) prohibition of entry	
					to unauthorized persons	
					or authorized persons	
					but without protective	
					equipment.	
Restricted	Factories Act,	1948	1987	Department	Section 87	All
Materials (e.g.	1948			of labour	To ensure the	
Asbestos,					effectiveness of the	
PCBs, ODS)					control measures,	
					monitoring of asbestos	
					fiber in air shall be	
					carried out once at least	
					in every shift and	
					measured or calculated	
					in terms of time-	
					weighted average	
					concentration and the	
					record of the results so	
					obtained shall be	
					entered in a register	
					specially maintained for	
					the purpose of qualified	
					person Membrane Filter	
					Technique (MFT) shall	
					be used for the	
					measurement of the air	
					borne asbestos fiber	
					dust.	
					The records of the	
					monitoring of the	
					working environment	
					shall be kept for a	
					period of not less than	
					30 years.	
			1		Jo years.	

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	Legislation	Promulga	Update	Authority	Legislation	
Restricted	Factories Act,	tion	109=	Donoutmont	Section 97	All
		1948	1987	Department of labour	Section 87	All
Materials (e.g.	1948			ol labour	The occupier shall	
Asbestos,					employ a qualified	
PCBs, ODS)					medical practitioner for	
					medical surveillance of	
					the workers involved in	
					handling of Asbestos	
					materials	
					The record of medical	
					examinations and	
					appropriate tests	
					carried out by the said	
					medical practitioner	
					shall be maintained in a	
					separate register	
					approved by the Chief	
					Inspector of Factories,	
					which shall be kept	
					readily available for	
					inspection by the	
					Inspector.	
					inspector.	
					For detailed	
					requirements of the	
					Schedule XV please	
					refer the rules.	
Labour	Factories Act,	1948	1987	Labour	This Act is applicable to	All
	1948			Department	all factories. The	
					occupier shall, at least	
					fifteen days before he	
					begins to occupy or, use	
					any premises as a	
					factory, send to the	
					Chief Inspector a	
					written notice	
					containing-	
					•(a) the name and	
					situation of the factory;	
					•(b) the name and	
					address of the occupier;	
					•(bb) the name and	
					address of the owner of	
					the premises or building	
					(including the precincts	
					thereof) referred to in	
					section 93;	
					•(c) the address to	
					which communication	
					relating to the factory	
					may be sent;	
					•(d) the nature of the	
					•(u) the nature of the	

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	Legislation	Promulga	Update	Authority	Legislation	
		tion			-	
					manufacturing process-	
					•(i) carried on in the	
					factory during the last	
					twelve months in the	
					case of factories in	
					existence on the date of	
					the commencement of	
					this Act, and	
					•(ii) to be carried on in	
					the factory during the	
					next twelve months in	
					the case of all factories;	
					•(e) the total rated	
					horse power installed or	
					to be installed in the	
					factory, which shall not	
					include the rated horse	
					power of any separate	
					standby plant;	
					•(f) the name of the	
					manager of the factory	
					for the purposes of this	
					Act;	
					•(g) the number of	
					workers likely to be	
					employed in the factory:	
					•(h) the average number	
					of workers per day	
					employed during the	
					last twelve months in	
					the case of a factory in	
					existence on the date of	
					the commencement of	
					this Act;	
					•(i) such other	
					particulars as may be	
					prescribed.	
abour	Eastorias Ast	10.49	109-	Labour	-	All
abour	Factories Act,	1948	1987		Section 17	All
	1948			Department	1) In every part of a	
					factory where workers	
					are working or passing	
					there shall be provided	
					and maintained	
					sufficient and suitable	
					lighting, natural or	
					artificial, or both.	
					2) In every factory all	
					glazed windows and	
					skylights used for the	
					lighting of the	
		1	1		workrooms shall be	1

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	U	tion	-	, i i i i i i i i i i i i i i i i i i i	U U	
					kept clean on both the	
					inner an outer surfaces	
					3) In every factory	
					effective provision shall,	
					so far as is practicable,	
					be made for the	
					prevention of-	
					(a) glare, either directly	
					from a source of light or	
					by reflection from a	
					smooth or polished	
					surface;	
					(b) the formation of	
					shadows to such an	
					extent as to cause eye-	
					strain or the risk of	
					accident to any worker.	
					1) In every factory	
					effective arrangements	
					shall be made to	
					provide and maintain at	
					suitable points	
					conveniently situated	
					for all workers	
					employed therein a	
					sufficient supply of	
					wholesome drinking	
					water	
					2) In every factory	
					wherein more than two	
					hundred and fifty	
					workers are ordinarily	
					employed, provision	
					shall be made for	
					cooling drinking water	
					during hot weather by	
					effective means and for	
- 1	Production A. 1	10.10	100-	T - 1	distribution	A 11
abour	Factories Act,	1948	1987	Labour		All
	1948			Department	1) In every factory	
					effective arrangements shall be made to	
					provide and maintain at	
					suitable points conveniently situated	
					for all workers	
					employed therein a	
					sufficient supply of	
					wholesome drinking	
					water	
					2) In every factory wherein more than two	
		1	1		wherein more than two	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					hundred and fifty workers are ordinarily employed, provision shall be made for cooling drinking water during hot weather by effective means and for distribution	
Labour	Factories Act, 1948	1948	1987	Labour Department	Section 19 1) In every factory, sufficient latrine and urinal accommodation of prescribed types shall be provided conveniently situated and accessible to workers at all times while they at the factory; 2) separate enclosed accommodation shall be provided for male and female workers; 3) every factory wherein more than two hundred and fifty workers are ordinarily employed- all latrine and urinal accommodation shall be of prescribed sanitary types (a) the floors and internal walls, up to a height of 2* [ninety continents] of the latrines and urinals and the sanitary blocks shall be laid in glazed tiles or otherwise finished to provide a smooth polished impervious surface 4) The floors, portions of the walls and blocks so laid or finished and the sanitary pans of latrines and urinals shall be thoroughly washed and cleaned at least once in every seven days with suitable detergents or	All

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion	-	· ·	-	
					disinfectants or with both.	
Labour	Factories Act, 1948	1948	1987	Labour Department	Section 20 1) In every factory there shall be provided a	All
					sufficient number of spittoons in convenient places and they shall be maintained in a clean and hygienic condition.	
labour	Factories Act, 1948	1948	1987	Labour Department	Section 42 and 44 1) In every factory, adequate and suitable facilities for washing shall be provided and maintained for the use of the workers therein; 2) separate and adequately screened facilities shall be provided for the use of male and female workers 3) In every factory suitable arrangements for sitting shall be provided and maintained for all workers obliged to work in a standing position, in order that they may take advantage of any opportunities for rest which may occur in the course of their work.	All
labour	Factories Act, 1948	1948	1987	Labour Department	Section 46 and 47 1) in any specified factory wherein more than two hundred and fifty workers are ordinarily employed, a canteen or canteens shall be provided and maintained by the	All

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	Legislation	Promulga	Update	Authority	Legislation	
	U U	tion	-	· ·	U U	
					occupier for the use of	
					the workers.	
					2) In every factory	
					wherein more than one	
					hundred and fifty	
					workers are ordinarily	
					employed, adequate and	
					suitable shelters or rest	
					rooms and a suitable	
					lunch room, with	
					provision for drinking	
					water, where workers	
					can eat meals brought	
					by them, shall be	
					provided and	
					maintained for the use	
					of the workers	
labour	Factories Act,	1948	1987	Labour	Section 62	All
	1948		, ,	Department	1) The manager of every	
	21			1	factory shall maintain a	
					register of adult	
					workers, to be available	
					to the Inspector at all	
					times during working	
					hours, or when any	
					work is being carried on	
					in the factory, showing-	
					-	
					(a) the name of each	
					adult worker in the	
					factory;	
					(b) the nature of his	
					work;	
					(c) the group, if any, in	
					which he is included;	
					(d) where his group	
					works on shifts, the	
					relay to which he is	
					allotted;	
					(e) such other	
					particulars as may be	
					prescribed:	
Human	Factories Act,	1948	1987	Labour	Section 48	All
Resources		1940	190/	Department	1) in every factory,	1711
	1948			Department		
Policy and					wherein more than 30	
Management					women workers are	
					ordinarily employed	
					there shall be provided	
					and maintained a	
					suitable room or rooms	
					for the use of children	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
		lion			under the age of 6 years of such women.	
Human Resources Policy and Management	Factories Act, 1948	1948	1987	Labour Department	Section 49 1) In every factory wherein five hundred or more workers are ordinarily employed the occupier shall employ in the factory such number of welfare officers as may be prescribed.	
Working Hours and Overtime	Factories Act, 1948	1948	1987	Labour Department	Section 51, 53, 54. 55, 56, 57, 58, 59 and 61 1) No adult worker shall be required or allowed to work in a factory for more than forty-eight hours in any week. 2) No adult worker shall be required or allowed to work in a factory for more than nine hours in any day: 3) no worker shall work for more than five hours before he has had an interval for rest of at least half an hour 4) The periods of work of an adult worker in a factory shall be so arranged that inclusive of his intervals for rest, they shall not spread over more than ten and a half hours in any day 5) No adult worker shall be required or allowed to work in a factory on the first day of the week unless (a) he has or will have a holiday for a whole day on one of the three days immediately before or after the said day, and (b) the manager of the factory has, before the said day or the substituted day	All

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	Legislation	Promulga	Update	Authority	Legislation	
	U	tion	-	, v	U U	
					substitution shall be	
					made which will result	
					in any worker working	
					for more than ten days	
					consecutively without a	
					holiday for a whole day.	
					6) Where a worker is	
					deprived of any of the	
					weekly holidays he shall	
					be allowed, within the	
					month in which the	
					holidays were due to	
					him or within the two	
					months immediately	
					following that month,	
					compensatory holidays	
					of equal number of the	
					holidays so lost.	
					7) Where a worker in a	
					factory works on a shift	
					which extends beyond	
					midnight:	
					(a) for the purposes of	
					sections 52 and 53, a	
					holiday for a whole day	
					shall mean in his case a	
					period of twenty four	
					consecutive hours	
					beginning when his	
					shift ends;	
					(b) the following day for him shall be deemed to	
					be the period of twenty-	
					four hours beginning	
					when such shift ends,	
					and the hours he has	
					worked after midnight	
					shall be counted in the	
					previous day.	
					8) Work shall not be	
					carried on in any factory	
					by means of a system of	
					shifts so arranged that	
					more than one relay of	
					workers is engaged in	
					work of the same kind	
					at the same time.	
					9) Where a worker	
					works in a factory for	
					more than nine hours in	
					any day or for more	
					than forty eight hours in	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion			any week, he shall, in respect of overtime work, be entitled to wages at the rate of twice his ordinary rate of wages. 10) There shall be displayed and correctly maintained in every factory, a notice of periods of work for adults, showing clearly for every day the periods during which adult workers may be required to work.	
Employment and Working Conditions	Factories Act, 1948	1948	1987	Labour Department	Section 66 1) no woman shall be 2*[required or allowed to work in any factory] except between the hours of 6 A.M. and 7 P.M.	All
Protection of Workforce	Factories Act, 1948	1948	1987	Labour Department	Section 67, 68, 71 1) Prohibition of employment of young children. No child who has not completed his fourteenth year shall be required or allowed to work in any factory. 2) A child who has completed his fourteenth year or an adolescent shall not be required or allowed to work in any factory unless (a) a certificate of fitness granted with reference to him under section 69 is in the custody of the manager of the factory, and	All

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
	Ū	tion	-	· ·	U U	
					(b) such child or	
					adolescent carries while	
					he is at work a token	
					giving a reference to	
					such certificate.	
					3) No female adolescent	
					or a male adolescent	
					who has not attained	
					the age of seventeen	
					years but who has been	
					granted a certificate of	
					fitness to work in a	
					factory as an adult, shall	
					be required or allowed	
					to work in any factory	
					except between 6 A.M.	
					and 7 P.M:	
					4) No child shall be	
					employed or permitted	
					to work in any factory	
					for more than 4 and a	
					half hours in any day or	
					during the night	
					5) The manager of every	
					factory in which	
					children are employed	
					shall maintain a register	
					of child workers, to be	
					available to the	
					Inspector at all times	
					during working hours	
					or when any work is	
					being carried on in a	
					factory, showing-	
					(a) the name of each	
					child worker in the	
					factory,	
					(b) the nature of his	
					work,	
					(c) the group, if any, in	
					which he is included,	
					(d) where his group	
					works on shifts, the	
					relay to which he is	
					allotted, and	
					(e) the number of his	
					certificate of fitness	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
Protection of	Child Labour	1986	2015	department	1) To prohibit	All
Workforce	(Prohibition and	-	Ű	oflabour	employment of children	
	Regulation) Act,				below 14 and 15 years of	
	1986 and the				age and also to regulate	
	Child labour				the working conditions	
	(prohibition and				in which children are	
	regulation) rules				employed or if working	
	1988				under exploitative	
	1900				conditions.	
					2) These laws are	
					applicable to the labour	
					employed also during	
					the construction phase	
					of the project.	
					3) The Act prohibits	
					employment of	
					adolescents in	
					hazardous occupations	
					including inflammable	
					substances and	
					hazardous processes	
					4) Every child employed	
					in an establishment	
					shall be allowed in each	
					week, a holiday of one	
					whole day, which day	
					shall be specified by the	
					occupier. The day so	
					specified shall not be	
					altered by the occupier	
					more than once in 3	
					months	
					5) Every occupier to an	
					establishment who	
					employs or permits to	
					work any child shall	
					within a period of 30	
					days from the date of	
					such employment, send	
					to the Inspector within	
					whose local limits the	
					establishment is	
					situated, a written	
					notice containing the	
					following particulars:	
					(a) The name and	
					situation of the	
					establishment	
					(b) The name of the	
					person in actual	
					management of the	
					establishment	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	Legislation	tion	opulate	Authority	Legislation	
					(c) The address to	
					which communications	
					relating to the	
					establishment should be	
					sent	
					(d) The nature of the	
					occupation or process	
					carried on in the	
					establishment	
					6) Every occupier shall	
					maintain a register in	
					respect of children	
					employed or permitted	
					to work in the	
					establishment. This has	
					to be available for	
					inspection by an	
					inspector at all times	
					during the working	
					hours or when work is	
					being carried on in any	
					establishment. This	
					register should have the	
					following details:	
					(a) The name and date	
					of birth of every child so	
					employed or permitted	
					to work	
					(b) Hours and periods	
					of work of any such	
					child and the intervals	
					of rest to which he is	
					entitled	
					(c) The nature of work	
					of any such child	
					(d) Such other	
					particulars as may be	
					prescribed	
abour	Equal	1976	1987	department	-	All
	Remuneration	-7/0	190/	of labour	to be made on the	
	Act, 1976				ground of sex in the	
	(Amended 1987)				matter of employment,	
	and Equal				wages and for matters	
	Remuneration				connected therewith	
	Rules 1976				2) It shall be the duty of	
	1100 19/0				the employer to pay	
					equal remuneration to	
					men and women	
					workers for same work	
					or work of similar	
					nature.	
					3) Women personnel	
		1	1	1	3) women personner	1

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					will not be discriminated against during recruitment.	
labour	Minimum Wages Act, 1948 and Minimum Wages Rules 1950	1948	NA	department of labour	 This is applicable on any employer who employs, directly or through another person, one or more employees in any scheduled employment in respect of which minimum rates of wages have been fixed under this act. Ensuring payment a minimum living wage to a worker, where applicable, in order to provide for bare subsistence and a basic standard of living with amenities including good health, education etc. Payment of wages below the fixed minimum wage rate accounts as forced labour. 	All
labour	Payment of Wages Act, 1936 and the Payment of Wages (Procedure) Rules, 1937	1936	2005	department of labour	 This Act was passed with the aim of regulating the payment of wages but excluding bonus/pension/PF/grat uity etc. to persons employed in any factory, either directly or indirectly through a sub-contractor. The Act holds the employer solely responsible for the payment of wages to the employees. The Act also specifies the need for a timeline for the wage payment, and the provisions for fines and deductions amongst other details pertaining to wages 	All

E&S Topics	Title of the Legislation			Competent Authority	Summary of the Legislation	Sector
		uon			4) No wage period shall exceed one month	
Labour	Payment of Bonus Act, 1965 and the Payment of Bonus Rules, 1975	1965	NA	department of labour	 This involves payment of bonus to persons in an establishment/factory in which twenty or more persons are employed. Every employee shall be entitled to be paid by his employer in an accounting year, bonus, provided he has worked in the establishment for not less than thirty working days in that year. Every employee a minimum bonus which shall be 8.33 per cent. of the salary or wage earned by the employee during the accounting year or one hundred rupees, whichever is higher, whether or not the employer has any allocable surplus in the accounting year 	All
Labour	Payment of Gratuity Act, 1972 and Payment of Gratuity (central) Rules 1972	1972	2010	department of labour	 To provide for a scheme for the payment of gratuity to employees of any establishment/factory (in which ten or more employees are employed). Every employer shall obtain an insurance for his liability for payment towards the gratuity from the Life Insurance Corporation of India Gratuity shall be payable to an employee on the termination of 	All

tiontionImage: Strain	
Labour the Employee 1948 2010 department of labour gratuity is pay also to the con- authority spectaria and the employee amount of gra- determined 1948 2010 department 1) It applies to authority spectaria and the employment is case of sick 1950 2) To provide in case of sick maternity and employment i to make provi- certain other of relation there 3) All employed factories or establishment this Act applie in sured in the provided by the provided by the provided by the provided by the provided by the provided by the payable under in respect of a employee shal comprise cont payable by the	ervice for 5 years- on, or irrement or or ath or due to isease gratuity able, the ll e amount d give ing to the om the yable and ntrolling cifying the atuity so o all non- ories e benefits cness, d injury' and ision for matters in eto. rees in ts to which es shall be e manner his Act. bution or this Act an ull tribution

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
					be paid to the Corporation.	
Labour	Employee Provident Fund and Miscellaneous Provisions Act, 1952 and Rules, 2015	1952	NA	department of labour	1) This Act is applicable to every factory or establishment employing 20 or more persons. 2) This Act requires the employer to provide for provident fund as under the scheme to the general public 3) The contribution which shall be paid by the employer to the Fund shall be ten percent. Of the basic wages, dearness allowance and retaining allowance, if any, for the time being payable to each of the employees whether employees whether employed by him directly or by or through a contractor, and the employee's contribution shall be equal to the contribution payable by the employer in respect of him and may, if any employee so desires, be an amount exceeding ten percent of his basic wages, dearness allowance and retaining allowance if any,	
Employment and Working Conditions	Maternity Benefit Act, 1961, amended 2008 and Rules, 1961	1961	2008	department of labour	1) This act is applicable to every establishment being a factory, mine or plantation and shop or establishment in which 10 or more persons are employed or were employed on any day of the preceding 12 months	All

E&S Topics	Title of the	Date of	Date of	Competent		Sector
-	Legislation	Promulga	Update	Authority	Legislation	
	U U	tion	-	· · ·	U	
					no employer shall	
					knowingly employ a	
					woman in any	
					establishment during	
					the six weeks	
					immediately following	
					the day of her delivery	
					or miscarriage.	
					3) Also, no pregnant	
					women shall, on a	
					request being made by	
					her, be required to do	
					any work of arduous	
					nature or which	
					involves long hours of	
					standing or which in	
					any manner is likely to interfere with her	
					pregnancy, result in	
					miscarriage or interfere	
					with the normal	
					development of her	
					foetus or impact her	
					health in any negative	
				•	manner.	
Labour	Workmen's	1923	2010	department	1) Payment of	All
	Compensation			of labour	compensation amount	
	Act, 1923 and				as applicable at the time	
	Rules, 1924				of the accident resulting	
					in a temporary or a	
					permanent disablement	
					such that it reduces the	
					earning potential of	
					workman in any	
					employment. Or	
					contracts an	
					occupational disease	
					peculiar to that	
					employment	
abour	Employment	1959	NA	department	/ 11	All
	Exchanges Act,			of labour	any establishment with	
	1959 and Rules				25 or more persons are	
	1960				employed come within	
					the purview of the Act.	
					2) To provide for	
					compulsory notification	
					of any vacancies to the	
					employment exchanges	
					and for the rendition of	
					returns relating to	
					employment situation	
					by the employers.	
		1			by the employers.	

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
abour	Shops and	tion 1953	NA	department	1) This is a state	All
Labour	Establishment	1955	1111	of labour	legislation act and each	1 111
	Act 1953			oriabour	state has framed its own	
	ACI 1953				rules for the Act.	
				2) The act lays down		
					rules regarding working	
					hours, guidelines for	
					national holidays and	
					rules of leave etc.	
					3) The employer must	
					send a statement in	
					prescribed form along	
					with prescribed fee to	
					inspector of local area	
					within 30 days of the	
					commencement of the	
					establishment,	
					containing:	
					(a) Name of employer	
					or manager	
					(b) The postal address	
					of the establishment	
					(c) Category of the	
					establishment	
					(d) Any other	
					particulars as may be	
					prescribed	
					4) Any change in the	
					statement submitted to	
					the Inspector must be	
					notified in prescribed	
					form , including closing	
					of establishment	
					5) No employee is	
					allowed to work more	
					than 9 hours in a day or	
					48 hours in a week	
					6) An employee may be	
					allowed to work upto 3	
					hours a week over this	
					limit and upto 26 hours	
					of 6 days in a year for	
					purposes of making of	
					accounts, stock taking	
					settlements	
					7) No employee is	
					allowed to work for	
					more than 5 hours at a	
					stretch unless he is	
					given rest for half an	
					hour in case the	
					establishment is	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
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		tion				
					engaged in	
					manufacturing process	
					and 1 hour in any other	
					cases	
					8) Every establishment	
					shall remain close on	
					any one day of the week	
					9) No child may be	
					allowed to work in any	
					establishment	
					10) No young person is	
					allowed to work in any	
					establishment for more	
					than 3 hours in a day	
					unless he has an	
					interval of rest of atleast	
					30 mins	
					0	
					11) No young person or women is allowed to	
					work before 1.00am and	
					after 7.00 pm in any	
					establishment and to	
					perform any such work	
					as may be declared by	
					the State Govt. to be	
					involving danger of life,	
					health or morale.	
					12) Premises should be	
					clean and free from	
					effluvia arising from	
					any drain or privy or	
					other nuisance and	
					shall be cleaned at such	
					times and by such	
					methods as may be	
					described which may	
					include, lime washing,	
					color washing, painting,	
					varnishing, disinfecting	
					and deodorizing.	
					13) Every establishment	
					should be well lighted	
					and 'd also provide	
					prescribed precautions	
					against fire.	
					14) A first aid box	
					should be maintained at	
					every establishment	
					where manufacturing	
					process is carried out.	
					15) An employee who	
					has worked for not less	
		1			hus worked for hot less	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
	0	tion	-	v	0	
					than 3 months in a year	
					is allowed for leave not	
					less than 5 days for	
					every 60 days on which	
					he has worked and for a	
					period of not less than	
					21 days for every 240	
					days on which he works	
					during an year. Such	
					leave may be	
					accumulated for a	
					maximum of 63 days.	
					16) In addition every	
					employee is entitled to:	
					(a) casual leave for 7	
					days a year;	
					(b) medical leave for 7	
					days a year;	
					(c) leave for not more	
					than 4 days a year on	
					any of national or	
					(d) festival holidays as	
					specified by State Govt.	
					These leaves are with	
					wages.	
					17) If an employee has	
					been in continuous	
					employment for not less	
					than one year, employer	
					can dispense his	
					services only by giving	
					minimum of 30 days'	
					notice in writing or	
					wages in lieu of such	
					notice.	
					nouce.	
Labour	Indian Trade	1926	2001	Registrar of	1) This act deals with	All
	Union Act, 1926			Trade	the registration of trade	
				Unions	unions, their rights,	
					their liabilities and	
					responsibilities as well	
			1		as ensures that their	1

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
	Legisiduvil	tion	opuate	Authority	Legislation	
		uon			funds are utilised	
					properly.	
					2) This act is applicable	
					not only to the union of	
					workers but also to the	
					association of	
T 1	T 1 . ' 1			1	employers.	4.11
Labour	Industrial	1947	2014	department	1) This law is applicable	All
	Disputes Act,			of labour	only to the organized	
	1947 and				sector in the context of	
	Industrial				an establishment.	
	Disputes				2) No employer, who	
	(Central) Rules				proposes to effect any	
	1957				change in the	
					conditions of service	
					applicable to any	
					workman in respect of	
					any matter specified in	
					the Fourth Schedule,	
					shall effect such	
					change,	
					(a) without giving to the	
					workmen likely to be	
					affected by such change	
					a notice in the	
					prescribed manner of	
					the nature of the change	
					proposed to be effected;	
					or	
					(b) within twenty-one	
					days of giving such	
					notice:	
					3) Where in any case, a	
					Labour Court, Tribunal	
					or National Tribunal by	
					-	
					its award directs	
					reinstatement of any workman and the	
					employer prefers any	
					proceedings against	
					such award in a High	
					Court or the Supreme	
					Court, the employer	
					shall be liable to pay	
					such workman, during	
					the period of pendency	
					of such proceedings in	
					the High Court or the	
					Supreme Court, full	
					wages last drawn by	
					him, inclusive of any	
					maintenance allowance	

E&S Topics	Title of the	Date of	Date of	Competent		Sector
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		tion				
					admissible to him under	
					any rule if the	
					workman had not been	
					employed in any	
					establishment during	
					such period and an	
					affidavit by such	
					workman had been filed	
					to that effect in such	
					Court	
					4) it shall be the duty of	
					every employer to	
					maintain a muster roll	
					and to provide for the	
					making of entries	
					therein by workmen	
					who may present	
					themselves for work at	
					the establishment at the	
					appointed time during	
					normal working hours.	
					5) No workman	
					employed in any	
					industry who has been	
					in continuous service	
					for not less than one	
					year under an employer	
					shall be retrenched by	
					that employer until	
					(a) the workman has	
					been given one month's	
					notice in writing	
					indicating the reasons for retrenchment and	
					the period of notice has	
					expired, or the	
					workman has been paid	
					in lieu of such notice,	
					wages for the period of	
					the notice:	
					(b) the workman has	
					been paid, at the time of	
					retrenchment,	
					compensation which	
					shall be equivalent to	
					fifteen days' average pay	
					2*[for every completed	
					year of continuous	
					service] or any part	
					thereof in excess of six	
					months; and	
					(c) notice in the	

E&S Topics	Title of the	Date of	Date of	Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					prescribed manner is	
					served on the	
					appropriate	
					Government 3*[or such	
					authority as may be	
					specified by the	
					appropriate	
					Government by	
					notification in the	
					Official Gazette].	
_						
abour	Persons with	1995	2014	Disability	1) Give effect to the	All
	Disabilities Act,			Rights	proclamation on the full	
	1995 and			Authority,	participation and	
	Persons with			Chief	equality (equal	
	Disability Rules			Commission	opportunities) of people	
	1996			er for Demogra with	with disabilities and	
				Disabilities	protection of rights 2) The employer in	
				Disabilities		
					every establishment shall furnish such	
					information or return as	
					may be prescribed in	
					relation to vacancies	
					appointed for person,	
					with disability that have	
					occurred or are about to	
					occur in that	
					establishment to such	
					Special Employment	
					Exchange as may be	
					prescribed and the	
					establishment shall	
					thereupon comply with	
					such requisition.	
					3) Every employer shall	
					maintain such record in	
					relation to the person.	
					With disability	
					employed in his	
					establishment in such	
					form and in such	
					manner as may be	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
_	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					prescribed by the	
					appropriate	
					Government	
					4) Every appropriate	
					Government shall	
					appoint in every	
					establishment such	
					percentage of vacancies	
					not less than three per	
					cent. for persons or	
					class of persons with	
					disability of which one	
					per cent. Each shall be	
					reserved for persons	
					suffering from-	
					(a) Blindness or low	
					vision;	
					(b) Bearing	
					impairment;	
					(c) Loco motor	
					disability or cerebral	
					palsy, in the posts	
					identified for each	
					disability:	
					5) Provided that the	
					appropriate	
					Government may,	
					having regard to the	
					type of work carried on	
					in any department or	
					establishment, by	
					notification subject to	
					such conditions, if any,	
					as may be specified in	
					such notification,	
					exempt any	
					establishment from the	
					provisions of this	
					section.	
Nuisance &	Information	2000	2008	Cyber	1) This act includes legal	All
Complaints	Technology Act,	_000	_000	Appellate	recognition of electronic	
Pilling	2000 and			Tribunal,	documents and legal	
	Information				recognition of digital	
	Technology			Officer	signatures in the	
	Rules 2011			JIIICI	context of any e-	
	Nuico 2011				transactions in an	
					establishment.	
Labour	Official Secrets	1000	NA	Home	1) Prevent disclosure of	A 11
LaDOUL		1923	INA			All
	Act, 1923			Ministry	any information that is	
					likely to affect the	
					sovereignty and	
			1		integrity of India, the	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
		lion			security of state, or friendly relations with foreign states, is punishable.	
Labour	The Contract Labour (Regulation and Abolition) Act, 1970 and Central Rules 1975	1970	NA	department of labour		All

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
	_	tion				
					execute any work	
					through contract labour	
					except under and in	
					accordance with a	
					licence issued in that	
					behalf by the licensing	
					officer.	
					6) wherein contract	
					labour numbering one	
					hundred or more is	
					ordinarily employed by	
					a contractor, one or	
					more canteens shall be	
					provided and	
					maintained by the	
					contractor for the use of	
					such contract labour.	
					7) in which work	
					requiring employment	
					of contract labour is	
					likely to continue for	
					such period as may be	
					prescribed, there shall	
					be provided and	
					maintained by the contractor for the use of	
					the contract labour such	
					number of rest-rooms	
					or such other suitable	
					alternative	
					accommodation within	
					such time as may be	
					prescribed.	
					8) The rest rooms or the	
					alternative	
					accommodation to be	
					provided shall be	
					sufficiently lighted and	
					ventilated and shall be	
					maintained in a clean	
					and comfortable	
					condition.	
					9) It shall be the duty of	
					every contractor	
					employing contract	
					labour in connection	
					with the work of an	
					establishment to which	
					this Act applies, to	
					provide and maintain	
					(a) a sufficient supply of	
					wholesome drinking	

E&S Topics	Title of the			Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					water for the contract	
					labour at convenient	
					places;	
					(b) a sufficient number	
					of latrines and urinals	
					of the prescribed types	
					so situated as to be	
					convenient and	
					accessible to the	
					contract labour in the	
					establishment; and	
					(c) washing facilities.	
					10) There shall be	
					provided and	
					maintained by the	
					contractor so as to be	
					readily accessible	
					during all working	
					hours a first-aid box	
					equipped with the	
					prescribed contents at	
					every place where	
					contract labour is	
					employed by him.	
					11) Contractor shall be	
					responsible for payment	
					of wages to each worker	
					employed by him as	
					contract labour and	
					such wages shall be paid	
					before the expiry of	
					such period as may be	
					prescribed.	
					12) Every principal	
					employer shall	
					nominate a	
					representative duly	
					authorized by him to be	
					present at the time of	
					disbursement of wages	
					by the contractor and it	
					shall be the duty of such	
					representative to certify	
					the amounts paid as	
					wages in such manner	
					as may be prescribed.	
					13) Every principal	
					employer and every	
					contractor shall	
					maintain such registers	
					and records giving such	
					particulars of contract	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Legislation	Sector
					labour employed, the nature of work performed by the contract labour, the rates of wages paid to the contract labour and such other particulars in such form as may be prescribed.	
Labour	The Apprentices Act 1961 and Rules 1991	1961	2014	department of labour	1) the Act was enacted to supplement the programme of Industrial training with on-the-job training and to regulate the training arrangements in the Industry. The Act imposes statutory obligations on all employers in the notified industries to engage apprentices in the ratio prescribed for designated trades	All

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
Labour	Building and	1996	NA	department	1) This act is geared	All
	Other	,,,-		of labour	towards providing	
	Construction				protection to the	
	workers(regulati				labourers involved in a	
	on of				project against	
	Employment				exploitation, preventing	
	and Conditions				unacceptable forms of	
	of Service) act				labour and ensuring	
	1996 and Rules				that the labourers are	
	2006				provided with decent	
					working conditions,	
					which allow for the	
					exercise of their rights.	
					2) It applies to every	
					establishment which	
					employs, or had	
					employed on any day of	
					the preceding twelve	
					months, ten or more	
					building workers in any	
					building or other	
					construction work.	
					3) Every employer shall	
					make an application to	
					the registering officer	
					for the registration of	
					the establishment:	
					4) Where, after the	
					registration of an	
					establishment under	
					this section, any change	
					occurs in the ownership	
					or management or other	
					prescribed particulars	
					in respect of such	
					establishment, the	
					particulars regarding	
					such change shall be	
					intimated by the	
					employer to the	
					registering officer	
					within thirty days of	
					such change in such	
					form as may be	
					prescribed	
					5) Where any building	
					worker is required to	
					work on any day in	
					excess of the number of	
					hours constituting a	
					normal working day he	
					shall be entitled to	

E&S Topics	Title of the	Date of		Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion	_		_	
					wages at the rate of	
					twice his ordinary rate	
					of wages.	
					6) Every employer shall	
					maintain such registers	
					and records giving such	
					particulars of building	
					workers employed by	
					him, the work	
					performed by them, the	
					number of hours of	
					work which shall	
					constitute a normal	
					working day for them,	
					in day of rest in every	
					period of seven days which shall be allowed	
					to them, tile wages paid	
					to them, the receipts	
					given by them and such	
					other particulars in	
					such form as my be	
					prescribed.	
					7) No person about	
					whom the employer	
					knows or has reason to	
					believe that he is a deaf	
					or he has a defective	
					vision or he has a	
					tendency to giddiness	
					shall bc required or	
					allowed to work in any	
					such operation of	
					building or other	
					construction work	
					which is likely to	
					involve a risk of any	
					accident either to the	
					building worker himself	
					or to any other person.	
					8) The employer shall	
					make in every place	
					where building or other	
					construction work is in	
					progress, effective	
					arrangements to	
					provide and maintain at	
					suitable points	
					conveniently situated	
					for all persons	
					employed there in, a	
					sufficient supply of	

E&S Topics		Date of		Competent		Sector	
	Legislation	Promulga	Update	Authority	Legislation		
		tion					
					wholesome drinking		
					water.		
					9) In every place where		
					building or other		
					construction work is		
					carried on, the		
					employer shall provide		
					sufficient latrine and		
					urinal accommodation		
					of such types as may be		
					prescribed and they		
					shall be so conveniently		
					situated as may be		
					accessible to the		
					building workers at all		
					times while they are in		
					such place		
					10) The employer shall		
					provide, free of charges		
					and within the work site		
					or as near to it as may		
					be possible temporary		
					living accommodation		
					to all building workers		
					employed by him for		
					such period as the		
					building or other		
					construction work is in		
					progress. The		
					temporary		
					accommodation shall		
					have separate cooking		
					place bathing, washing		
					and lavatory facilities		
					11) As soon as may be,		
					after the building or		
					other construction work		
					is over, the employer		
					shall, at his own cost,		
					cause removal or		
					demolition of the		
					temporary structures		
					erected by him for the		
					purpose of providing		
					living accommodation		
					cooking place or other		
					facilities to the building		
					workers and restore the		
					ground in good level		
					and clean condition.		
					12) In every place where		
					in more them fifty		
		I	l		in more them mity		

E&S Topics	Title of the Legislation		Competent Authority	Summary of the Legislation	Sector
		tion		female building workers	
				are ordinarily	
				employed, there shall be	
				provided and	
				maintained, a suitable	
				room or rooms for the	
				use of children under	
				the, age of six years of	
				such female workers	
				13) Every employer	
				shall provide in all the	
				places where building or other construction	
				work is carried on such	
				first-aid facilities as	
				may be prescribed.	
				14) The employer shall	
				need to provide and	
				maintain in every place	
				wherein not less than	
				two hundred and fifty	
				building workers are	
				ordinarily employed, a	
				canteen for the use of	
				the workers	
				15) An employer shall	
				be responsible for	
				payment of wages to	
				each building worker	
				employed by him and	
				such wages shall be paid	
				on or before such date	
				as may be prescribed.	
				16) An employer shall,	
				at least thirty days	
				before the	
				commencement of any	
				building or other	
				construction work, send	
				or cause to be sent to	
				the Inspector having	
				jurisdiction in the area	
				where the proposed	
				building or other	
				construction work is to	
				be executed, a written	
				notice containing-	
				(a) the name and	
				situation of the place	
				where the building or	
				other construction work	
				is proposed to be	
		1		is proposed to be	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
	0	tion	-	Ū	0	
					carried on;	
					(b) the name and	
					address of the person	
					who is undertaking the	
					building or other	
					construction work:	
					(c) the address to which	
					communications	
					relating to the building or other construction	
					work may be sent;	
					(d) the nature of the	
					work involved and the	
					facilities, including any	
					plant and machinery,	
					provided;	
					(e) the arrangements	
					for the storage of	
					explosives, if any, to be	
					used in the building or	
					other construction	
					work;	
					(f) the number of	
					workers likely to be	
					employed during the	
					various stages of	
					building or other	
					construction work;	
					(g) the name and	
					designation of the	
					person who will be in	
					overall charge of the	
					building or other	
					construction work at	
					the site;	
					(h) the approximate	
					duration of the work;	
					(i) such other matters as	
					may be prescribed.	
abour	Inter-state	1979	NA	department		All
aijvui	Migrant Workers	19/9	INA	of labour	to every establishment	111
	Act, 1979 and				and contractor who	
	Rules 1980				employed 5 or more	
	-				1 0 0	
					inter-state migrant	
					workers on any day of	
					the preceding 12	
					months. The purpose of	
					this Act is to regulate	
					the condition of service	
					of inter-state labourers	
					in the country by	
			1		protecting the dignity of	

E&S Topics	Title of the			Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
					life and interests of the	
					workers.	
					2) The Act requires for	
					the migrant workers to	
					be paid equal or better	
					wages in comparison to	
					the local workmen	
					along with	
					displacement	
					allowance, home	
					journey allowance, free	
					residential	
					accommodation and	
					medical facilities.	
					3) Every principal	
					employer of an	
					establishment to which	
					this Act applies shall,	
					within such period as	
					the appropriate	
					Government may, by	
					notification in the	
					Official Gazette, fix in	
					this behalf with respect	
					to establishments	
					generally or with	
					respect to any class of	
					them, make an	
					application to the	
					registering officer, in	
					such form and manner	
					and on payment of such	
					fees as may be	
					prescribed, for the	
					registration of the	
					establishment:	
abour	Bonded Labour	1976	1992	District	· ·	All
	(Abolition) Act	- '		Magistrate	abolishing the bonded	
	1976 and Rules				labour system in the	
	1976				country. It freed all the	
					bonded labourers from	
					bondage and made the	
					practice of bondage a	
					cognizable offence	
					punishable by law	
Labour	The Employee's	1923	2009	Department	1) The employer should	All
	Compensation			of labour	be liable to pay	
	Act 1923				compensation to	
					employees in case of	
					injury by accident	
					arising out of and in	
					course of his	

E&S Topics	Title of the	Date of	Date of	Competent		Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion	_		-	
					employment or where	
					the employee contracts	
					any occupational	
					disease peculiar to the	
					employment. This	
					compensation is	
					payable in cases where	
					ESIC (Employee State	
					Insurance CorporatIon)	
					cannot be provided.	
					This compensation is to	
					be paid in all cases	
					when the injury results	
					in total or partial	
					disablement of the	
					worker for a period	
<u> </u>				D	exceeding three days.	4.11
General	The Companies	2013	2015	Department	1) This Act aims to	All
Management	Act 2013 and			of Public	protect and empower	
	Rules 2014			Enterprises,	investors and other	
				SEBI	stakeholders while	
					bringing in greater	
					transparency in	
					corporate governance.	
					2) This section is	
					applicable on	
					companies having a:	
					(a) net worth of Rs 500	
					crore or more during	
					any financial year, or	
					(b) turnover of Rs 1000	
					crore or more, or	
					(c) net profit of Rs 5	
					crore or more.	
					3) the companies	
					meeting the threshold	
					criteria specified should	
					spend in every financial	
					year, at least 2% of the	
					average net profits of	
					the company made	
					during the three	
					immediately preceding	
					financial years, in	
					pursuance of CSR	
					Policy.	
Land	Right to Fair	2014	2015	District	1) The Act is applicable	All
	Compensation			Collector and	to the land acquisition	
	and			Revenue	being undertaken for	
	Transparency in			Department	the purpose of	
	Land			•	industrialisation,	
	Acquisition 2014				urbanization and the	1

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation			Authority	Legislation	
	0	tion	-		0	
	and Rules Rules				development of	
	2014, Land				essential infrastructural	
	Revenue Code of				facilities.	
	specific states				2) The aim of the Act is	
	specific states				to ensure least	
					disturbances to the	
					owner of the land and	
					other families and to	
					ensure that the	
					cumulative outcome of	
					the acquisition should	
					result in an	
					improvement from the	
					pre-acquisition status.	
					3) The state level wind	
					energy policies require	
					the state land revenue	
					codes to be followed for	
					the purpose of land	
					procurement.	
Rehabilitation	National Policy	2007	NA	District	1) The Policy outlines	All
and	for			Collector and	the minimum benefits	
Resettlement	Rehabilitation			Revenue	to be ensured for	
	and			Department	persons displaced due	
	Resettlement			-	to acquisition of land	
	2007				for public purposes for	
	,				projects displacing 400	
					or more families en	
					masse in the plains or	
					200 or more families in	
					tribal or hilly areas.	
					2) According to this	
					Policy, Social Impact	
					Assessments are	
					mandatory in projects	
					where the policy is	
					applicable. This is most	
					specifically applicable in	
					projects impacting large	
					numbers of Scheduled	
					Tribes people.	
					3) These projects thus	
					include new projects,	
					expansions of existing	
					projects including	
					involuntary	
					displacement, projects	
					falling in DDP Blocks or	
					areas mentioned in the	
					Schedule V or Schedule	
					VI of the Constitution.	

E&S Topics	Title of the	Date of		Competent	Summary of the	Sector
	Legislation	Promulga	Update	Authority	Legislation	
		tion				
Non	The Panchayati	1996	NA	Ministry of	1) The PESA Act was	All
Discriminatio	Raj (extended to			Tribal Affairs	enacted with the aim of	
ı and Equal	Scheduled				enabling Tribal Self	
Opportunity	Areas) Act				Rule in the tribal areas	
	(PESA) 1996				of the nine states having	
					a Fifth Schedule status.	
					The nine states are	
					Andhra Pradesh,	
					Chhattisgarh, Gujarat,	
					Himachal Pradesh,	
					Jharkhand,	
					Maharashtra, Madhya	
					Pradesh, Orissa and	
					Rajasthan.	
					2) This act requires that	
					the Gram Sabha or	
					Panchayats be	
					consulted before	
					acquiring land in the	
					Scheduled areas for	
					development projects	
					and before resettling or	
					rehabilitating people	
					affected by such project	
					in Schedule areas.	
					3) This act gives the	
					Gram Sabhas the power	
					to prevent alienation of	
					land in the Scheduled	
					Areas and to take	
					appropriate action to	
					restore any unlawfully	
					alienated land of a	
					Scheduled Tribe	
Non	Scheduled	2006	NA	Ministry of		All
Discriminatio	Tribes and	2000	1111	-	recognizing forest rights	1 111
n and Equal	Other			undur ununs	and vesting the same in	
Opportunity	Traditional				the forest dwelling	
opportunity	Forest Dwellers				Scheduled Tribes and	
	(Recognition of				other traditional	
	Forest Rights)				dwellers who have been	
	Act, 2006				residing in such forests	
	1100, 2000				for generations, but	
					whose rights could not	
					be recorded.	
					2) According to the act,	
					in case any forest land	
					is required, then an	
					NoC from the relevant	
					Gram Panchayat or	
					Sabha is required to	
	1	1	1		ensure that no	1

E&S Topics	Title of the Legislation	Date of Promulga		Competent Authority	Summary of the Legislation	Sector
		tion				
					community or	
					individual claims on the	
					forest land will be	
					affected.	
Non	Scheduled	1989	2014	Ministry of	1) This is applicable in	All
Discriminatio	Castes and			Tribal	case of personnel/staff	
n and Equal	Scheduled			Affairs,	employed in an	
Opportunity	Tribes			Schedules	establishment or	
	(Prevention of			Castes and	labourers employed	
	Atrocities Act),			Scheduled	during construction	
	1989 and Rules			Tribes	phases.	
	1995			Protection	2) This act seeks to	
				Cell, Nodal	prohibit any	
				Officer or	discrimination and	
				Specific	prevent atrocities on	
				Officer	marginalized	
N T			NT A		communities.	
Non	Fifth Schedule of	NA	NA	Ministry of	1. The Fifth Schedule of	
Discriminatio	the Constitution of India			Tribal	the Constitution deals with the administration	
n and Equal	of India			Affairs, Schedules	and control of	
Opportunity				Castes and	Scheduled Areas as well	
				Scheduled	as of Scheduled Tribes	
				Tribes	in States other than	
				Protection	Assam, Meghalaya and	
				Cell, Nodal	Tripura. The features of	
				Officer or	the schedule are as	
				Specific	follows:	
				Officer	a) The Executive power	
					of the Union shall	
					extend to giving	
					directions to the	
					respective States	
					regarding the	
					administration of the	
					Scheduled Areas.	
					b) Tribes Advisory	
					Councils are to be	
					constituted to give	
					advice on such matters	
					as welfare and	
					advancement of the	
					Scheduled Tribes.	
					c) The Governor is	
					authorised to direct that	
					any particular Act of	
					Parliament or of the	
					Legislature of the State	
					shall not apply to a	
					Scheduled Area or shall	
					apply, only subject to	

E&S Topics	Title of the	Date of	Date of	Competent	Summary of the	Sector
-	Legislation	Promulga	Update	Authority	Legislation	
	U U	tion	-	, i i i i i i i i i i i i i i i i i i i	Ū	
					exceptions or modifica-	
					tions.	
					d) The Governor is	
					authorised to make	
					regulations to prohibit	
					or restrict transfer of	
					land by or among the	
					members of Scheduled	
					Tribes, to regulate the	
					allotment of land and	
					the business of money-	
					lending. All such	
					regulations made by the	
					Governor must have the	
					assent of the President;	
					e) Tribes Advisory Councils have to be	
					constituted to advise	
					the government on the	
					matters relating to the	
					welfare and	
					advancement of the	
					Schedules Tribes-these	
					matters are those which	
					may have been referred	
					to the councils by the	
					Governor;	
Cultural	Ancient	1958	NA	Archaeologic	1) This Act places	All
neritage	Monuments and	-90-		al Survey of	restrictions on the	
8	Archaeological			India	destruction, alteration,	
	Sites and				defacement or removal	
	Remains Act				of monuments and on	
	1958				construction on or near	
					the site of any protected	
					monument.	
					2) No person, including	
					the owner or occupier of	
					a protected area, shall	
					construct any building	
					within the protected	
					area or carry on any	
					mining, quarrying,	
					excavating, blasting or	
					any operation of a like	
					nature in such area, or	
					utilise such area or any	
					part thereof in any	
					other manner without	
					the permission of the	
					Central Government	

E&S Topics	Title of the Legislation	Date of Promulga tion		Competent Authority	Summary of the Legislation	Sector
Wind power	State Wise Wind	NA	NA	New and	1) Most states have put	All
policy	Power Project	1111		Renewable	in place individual wind	
Policy	policy			Energy	energy policies in order	
	policy				to govern the	
				Department	development of wind	
					energy projects in their	
					states. These policies	
					provide details in terms	
					of project allotment,	
					development, approval	
					and clearance process	
					for projects, permission	
					for land procurement	
					and use, evacuation	
					arrangements,	
					transmission and	
					distribution, sale of	
					power, incentives of	
					project development	
					and terms and the	
					process of regulatory	
					monitoring of these	
					projects	
					2) These policies	
					require the state wise	
					land revenue code to be	
					followed for the	
					procurement of land. In	
					case of requirement of	
					Forest land, the	
					provisions of the Forest	
					(Conservation) Act	
					1980 and its rules are to	
					be followed	