

Abbreviations

ADS	Additional Details Sought
AI	Artificial Intelligence
API	Application Programming Interface
AS	Additional Secretary
BPMS	Business Process Managing System
CAMPA	Compensatory Afforestation Fund Management and Planning Authority
CAT-A	Category A
CAT-B	Category B
CCFs	Chief Conservator of Forests
CF	Conservator of Forests
CIN	Corporate Identification Number
CMS	Content Management System
CPC	Central Processing Centre
CPCB	Central Pollution Control Board
CRZ	Coastal Regulation Zone
CIE	Consent to Establish
CIO	Consent to Operate
DB	Data Base
DC	Deputy Conservator District Collector
DC	Data Centre
DCF	Deputy Conservator of Forests
DFOs	District/Divisional Forest Officer Divisional Forest Officer
DIP	Digital India Program
DM	District Magistrate
DMS	Document Management System
DPR	Detailed Project Report
DR	Disaster Recovery
DSS	Decision Support System
EAC	Environment Assessment Committee
EC	Environmental Clearance
EDS	Essential Details Sought
EIA	Environment Impact Assessment
EMP	Environment Management Plan
FC	Forest Clearance
FCA	Forest Conservation Act
GIGW	Guidelines for Indian Government Websites
GIS	Geographic Information System
HQ	Head Quarter
IA	Impact Assessment
ICT	Information and Communication Technologies
IRO	Integrated Regional Offices

JS	Joint Secretory
KYC	Know Your Customer
MCA	Ministry of Common Affair
MIS	Management Information System
MOEFCC	Ministry of Environment, Forest and Climate Change
MoM	Minutes of Meeting
MS	Member Secretary
NGO	Non-Government Organization
NIC	National Informatic Centre
NICSI	National Informatics Centre Services Inc. (NICSI) - India.
NSDL	National Security Depository Limited
OCMMS	Online Consent Monitoring & Management System
PARIVESH	Pro Active and Responsive facilitation by Interactive and Virtuous Environmental Single Window Hub
PCCF	Principal Chief Conservator of Forests
PMU	Project Management Unit
PP	Project Proponent
QCI	Quality Council of India
RDBMS	Relational Data Base Management System
RO	Regional Officer
RPO	Recovery Point Objective
SCZMA	State Coastal Zone Management Authorities
SSD	Solid State Drive
SEAC	State Level Expert Appraisal Committee
SEIAA	State Level Environment Impact Assessment Authority
SI	System Integrator
SLA	Service Level Agreement
SOA	Service Oriented Architecture
SOP	Standard Operating Procedures
SPCB	State Pollution Control Boards
SPOC	Single Point of Contact
SQL	Structured Query Language
ToR	Terms of Reference
UAT	User Acceptance Testing
UIDAI	Unique Identification Authority of India
UT	Union Territory
wc	Wildlife Clearance

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Executive Summary

The Ministry of Environment, Forest and Climate Change (MoEFCC) is the nodal agency in the administrative structure of the Central Government for the planning, promotion, co-ordination and overseeing the implementation of India's environmental and forestry policies and programs. The broad objectives of the Ministry are (a) Conservation and survey of flora, fauna, forests and wildlife (b) Prevention and control of pollution (c) Afforestation and regeneration of degraded areas (d) Protection of the environment and (f) Ensuring welfare of animals. These objectives are well supported by a set of legislative and regulatory measures, aiming for preservation, conservation and protection of the environment. Main emphasis of the Ministry is execution of the policies and programs relating to conservation of natural resources such as lakes and rivers, its biodiversity, forests and wildlife, welfare of animals, and prevention and abatement of pollution.

With development in various sectors, India has witnessed significant growth in industrial and economic activity during past few decades. A natural consequence of such developmental activities is a severe strain on the environment. It was noted that while the requisite regulatory provisions are in place, desired levels of monitoring and compliance of the stipulated parameters are yet to be achieved.

In view of the encouraging modernization and technological innovation under the Digital India Program (DIP), the Ministry has launched PARIVESH which captures information about projects since 2018. PARIVESH is operational and managed by NIC. This web-based software platform is intended for processing of applications for Environmental Clearances (ECs), Forest Clearances (FCs), Wildlife Clearance, Coastal Regulatory Zone Clearances (CRZ). Fundamentally this is a work-flow application with minimal validations of proponents' data.

PARIVESH has helped Ministry to automate application processing workflow with some challenges/gaps still existing in the Registration process, TOR and EC granting process, EC Compliances and Content to Establish and Consent to operate process. A process study was conducted and observed that 13 processes are offline and/does not exist and 12 processes require improvements such as User Registration, Environment clearances, Environment Compliances, CTO/CTE Authorization, Costal Regulation Zone, legal, Consultants and Audit processes.

It was noticed during the comprehensive study, that in the registration process multiple duplicate users exists. There is no provision of entity authentication nor there any user enity mapped. For TOR and Environment Clearance some of the major challenges were:

- Offline & Online processing of applications
- Multiple data entry points for same data
- No mechanism to verify data submitted by PP
- Public hearing process outside the purview of PARIVESH
- Lengthy approval cycles for EC modification, transfer & amendments
- Bulky EIA EMP Report
- Manual entry of conditions in system for MoM & clearance certificate

The Ministry has 10 regional offices (RO) which are involved in complinace and monitoring of processes. However, ROs do not have any access to PARIVESH to manage compliance function online, thus leading to the following challengs:

- Lack of compliance report(s)
- Limited processing of compliance report(s)
- Absence of priority list for project inspection
- Absence of proponent compliance track record

Consent to Operate and Consent to Establish are two very important processes for the regulators as well as the project proponents (PP). It was noted that there was a separate database for centre & state systems. The ministry relies a lot on PP for status and applicability of EC. Further, the existing compliance monitoring is offline, hence making it complex to track and provide a comprehensive view of the PP's compliance status for each project.

Besides encouraging technology up gradation, one of the important features of the EIA 2020 is to place reliance on the project proponent and to grant "Environment Permission" based on the information uploaded online through the portal. However, the project proponent would be liable to monitoring and compliance of the conditions stipulated in such permissions. Therefore, the concept of "Environment Permission" would be acceptable to the society at large if a robust compliance mechanism is in place.

Therefore, to address the business and regulatory requirement of the Ministry and its ecosystem, the Centralized Processing Centre- Env (CPC-Green) was conceptualized

and a notification issued vide File No 65013/2/2020/P-I dated 16th June 2020 details of the Notification has been annexed in subsequent section. The CPC-Green is envisaged to strengthen environmental compliance through transparent, technology driven and non-intrusive monitoring system and to provide a 'single window' solution for administration of environmental regulations.

The new system will facilitate the Project Proponents and Authorities about their requirement for different type of obligatory approvals under various Acts/Rules notified by the Regulatory Authorities.

The Vision of MoEFCC is to build an 'Information Technology System' with a robust and secure IT Infrastructure, which is flexible in meeting objectives of CPC. The Solution is envisaged to improve efficiency, consistency and effectiveness of various process and services and target to reduce turnaround time and to meet the demands of the stakeholders. End objective is, to make entire processes such as User Registration, TOR, EIA/EMP, EC, FC, WL and Compliance Monitoring, to be seamless and effective.

CPC-Green envisaged is planned to be a Single source of truth with built in analytical capabilities and capable to validate Project Proponents data and share relevant inputs /data with SPCBs whenever required.

CPC-Green is envisaged to bring efficiency through saving manual efforts, enabling consultants in using the portal and making them aware about the Ministry guidelines and policy decisions. CPC will work as per defined scope adhering to the SLAs. The broad scope of work of the CPC, resource requirement and timeline were finalised and recorded in Annexure — II. Detailed scope of work includes a) Examination of TOR proposal, EC proposal and preparing summary b) MIS preparation c) Helpdesk management d) Scheduling of EAC meetings e) Online MoM preparation on the day EAC meeting f) follow-up with the Project Proponent and Consultants etc.

For Integration of compliance Monitoring system of MoEFCC with the PARIVESH 2.0, National Productivity Council (NPC) will provide structure of content, information during etc. design phase. NIC will extend hosting and deployment support into NIC IDC cloud as per NIC Cyber Security Guidelines. The entire process will be finalized in consultation with NPC, MOEFCC and NIC.

CPC is also foreseen to assist the Ministry in redirecting the issues of Project Proponents by identifying the issues related to (a) policy matters and (b) technical matters. Subsequently the issues will be directed to the concern authority (Ministry

officials and Application Development team). Team would provide L1 level support and will escalate the issue if required.

NIC has planned to augment its consulting and development teams for development of PARIVESH 2. o. Though NICSI, for which resources would be hired by NIC on manmonth basis. NIC would be responsible for managing the scope of work. NIC will assist NICSI in on-boarding of the vendors by providing required technical know-how. This model is adopted by the ministry to retain the flexibility of accommodating unplanned/dynamic changes in the application and to reduce implementation time.

This envisaged platform is likely to be planned and developed with an approximately estimated budget of **Rs. 1,15,92,40,147** (including taxes) for a period of 5 years. The estimation includes IT application development, maintenance and capacity building.

Table 1: Estimated Cost

S. No.	Item	Total Amount (in INR)
1	License Support	3,25,37,500
2	Cloud Charges	4,76,49,784
3	Application Development	13,33,82,472
4	Application Maintenance and Support	32,25,15,076
5 CPC		7,37,44,838
6	Consulting PMU	7,39,39,387
7	Help Desk	2,41,88,307
8	Security Audit	30,00,000
9	Development Centre Cost	1,88,16,000
	State Coordination & Support	15,52,77,901
Total		88,46,74,165
NICSI Charges (5%)		4,42,52,563
Miscellaneous, SMS, Training, Travel etc. (2%)		1,77,01,025
Contingency (4%)		3,54,02,051
Grand Total		98,24,06,905
GST @ 18%		17,68,33,243
Total (with taxes)	1,15,92,40,147

The total time frame of CPC-Green is of five years. Implementation Roadmap of CPC-Green will consist of three tracks. Track 1 comprises of 16 weeks to undertake activities related to Business Process Reengineering. Track 2 comprises of 12 weeks, to undertake the selection of service provider for PARIVESH 2.0. Track 3 comprises of 3

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waves. Duration of this track is 64 weeks, and predicted to complete development and implementation of PARIVESH 2.0.

The subsequent chapters of the DPR explained about the conceptual details of CPC-Green PARIVESH 2.0, pertinent implementation roadmap, timelines and estimated budget.

1. Introduction

In India, environment comprises some of the world's most biodiverse ecozones. The Deccan Traps, Gangetic Plains and the Himalayas are the major geographical features. The Ministry of Environment, Forest and Climate Change (MoEFCC) is the nodal agency in the administrative structure of the Central Government for the planning, promotion, co-ordination and overseeing the implementation of India's environmental and forestry policies and programs. Primary focus of the Ministry is implementation of policies and programs relating to conservation of the country's natural resources including its lakes and rivers, its biodiversity, forests and wildlife, ensuring the welfare of animals, and the prevention and abatement of pollution. While implementing these policies and programs, the Ministry is guided by the principle of sustainable development and enhancement of human well-being.

To ensure safeguarding of the country's environment, flora & fauna and the natural resources, the Ministry provides Environment, Forest, Wildlife and CRZ Clearances after conducting due diligence of all the proposals which are likely to impact these.

The Ministry also serves as the nodal agency in the country for the United Nations Environment Program (UNEP), South Asia Co-operative Environment Program (SACEP), and International Centre for Integrated Mountain Development (ICIMOD) and for the follow-up of the United Nations Conference on Environment and Development (UNCED). The Ministry is also entrusted with issues relating to multilateral bodies such as the Commission on Sustainable Development (CSD), Global Environment Facility (GEF) and of regional bodies like Economic and Social Council for Asia and Pacific (ESCAP) and South Asian Association for Regional Co-operation (SAARC) on matters pertaining to the environment. The broad objectives of the Ministry are:

- Conservation and survey of flora, fauna, forests and wildlife
- Prevention and control of pollution
- Afforestation and regeneration of degraded areas
- · Protection of the environment and
- Ensuring the welfare of animals

These objectives are well supported by a set of legislative and regulatory measures, aimed at the preservation, conservation and protection of the environment.

1.1 About PARIVESH

PARIVESH is a web based, role-based workflow application which has been developed for online submission and monitoring of proposals submitted by the proponents for seeking Environment, Forest, Wildlife and CRZ Clearances from Central, State and district level authorities. It automates the entire tracking of proposals which includes online submission of a new proposal, editing/updating the details of proposals and displays status of the proposals at each stage of the workflow.

It was analysed through various studies and assessment that PARIVESH2.0 will require enhancements and revamp, to meet the evolving needs of the Ministry and the stakeholders.

1.2 Objective of the Project CPC-Green

Major objective pertaining to proposed CPC-Green is depicted below:

- a) To strengthen Environmental Compliance through transparent, technology driven & non-intrusive monitoring system and to provide a "single window" solution for administration of environmental regulations, a Centralized Processing Centre – Green. Is proposed to be set up in the Ministry of Environment, Forest & Climate Change.
- To provide an enabling ecosystem for environment regulatory authority(ies) wherein:
 - Repetitive, mechanical, and routine work/validations/clarifications are undertaken by the CPC (thus saving time and energy of such authorities)
 - Regulatory authorities are assisted by CPC by providing actionable information (thus making the process fast, effective, and manageable)
 - Repository of all information related to EC/CTE/CTO compliance and compliance of other identified regulations etc. are created and managed in a professional manner at one place. (thus, avoiding hassles in retrieving of data and making the compliance monitoring more effective)
- c) To further extend the functionalities of existing system with following attributes:
 - To expand the scope of existing system on PARIVESH so as to integrate EC-CTE/CTO/FC applications

- To develop e-filling of Forms for various EC/FC/Compliances in xml or other suitable formats
- To map projects and capture compliance reports in monitoring formats, to use data analytics to reflect trends and patterns as regards compliance for effective monitoring
- To provide back-end support for processing and validations of the applications and compliance reports
- To keep track of the action taken on respective projects and compliances by PP on the conditions imposed
- vi. To provided effective two-way communication between regulatory authority and stakeholders
- To provide an effective system for document management for its effective use by the regulatory authority for decision making and monitoring

1.3 Objective of the DPR

MoEFCC intends to introduce transformational changes in PARIVESH2.0 and enable better and prompt service delivery to all the stakeholders. MoEFCC intends to achieve the objectives, through an in-depth study of the existing IT landscape and thereby recommending necessary procedural, technological, and human resource-based interventions. The Ministry envisions to make PARIVESH2.0 a one stop solution, providing end to end functionality for all clearance processes and associated needs of the stakeholders. Further, the system should aim for minimizing human intervention with policy of "Maximum Governance, Minimum Government".

This report provides AS-IS assessment of the entire lifecycle of the registration process, legal framework, organization structure, challenges encountered by various stakeholders, current IT interventions, feedback from the citizens and other important aspects of PARIVESH. The report proposes multi-pronged approach to revamp and modernize the entire system. It would encompass provisioning of IT solution, digitization of old records, media campaigns, rewarding & recognizing and amendment in legal statutes. This report also encapsulates the identification of key success factors, planning the governance structure, estimation of project timelines and cost.

1.4 Problem Definition

Due to pace of development across various sectors in the country, India has observed significant growth in industrial and economic activity during these years. A natural

consequence of such development activities is a severe strain on various parameters concerning the environment. It was noted that while the requisite regulatory provisions are in place, the monitoring and compliance of the stipulated parameters needs To-Be continually improved and upgraded. Also, the challenges faced in the Environment, Forest and Wildlife clearance system are multi-fold. They have been identified and highlighted as below:

- a) Lack of synergy between EC, CRZ, FC, Wildlife Clearance and CTE/CTO applications/their processing
- b) Data inconsistencies due to limited validation in the system
- c) Lack of comprehensive web-based services
- d) Missing Compliance & monitoring elements
- e) Missing integration of existing DSS with FC
- f) Inadequate compliance monitoring provision for Forest and Wildlife clearances
- g) Inadequate provisioning of logistics involved in robust compliance/monitoring in terms of prioritization of workload, volume of work involved, various modes of communication etc.
- Due to inadequate automation (workflows and business rules) regulatory authorities are engaged in repetitive/mechanical work

1.5 Project Vision and Scope

Create a National Digital Environment Clearances and Compliance Eco-system that will supports in an efficient and time bound provisioning of a wide range of interoperable information and services, pertaining to projects and environmental data.

1.6 Expected Outcome

Major outcome of the proposed CPC-Green Project id depicted below:

- a) A fully developed & improved system ensuring authentication and accuracy.
- b) A web-based application for facilitating project proponents in terms of providing clearances and propagating internal procedures.
- c) A more scientific appraisal of projects for grant of environmental clearance.
- Better monitoring of compliance of environmental conditions of the projects.
- e) A Centralized Processing Center (CPC) with State-of-the-Art technologies and infrastructure for acquisition, file processing, compliances and clearance.
- An established standard operating procedure for the sharing of information with the various stakeholders.

- g) Dedicated provisioning of Data Centre (DC) and Disaster Recovery (DR) ensuring the security of data, high availability and data continuity.
- Articulation of multi-dimensional modular approach with enhanced features and functionalities.
- Incorporation of additional modules for ensuring an end to end process automation.
- j) Create a National Digital Environment Clearances and Compliance Eco-system that will supports in efficient and time-bound provisioning of a wide range of interoperable information and services, pertaining to projects and environmental data.
- k) Full-fledged helpdesk deployment for an end to end Technical assistance and handholding.
- End to end implementation framework with a long-term roadmap for successful implementation of the project.

The new system is envisaged to have the following benefits:

- a) Strengthening the Ease of Doing Business
 - · Proponent Journey
 - Grievance redressal
 - Knowledge sharing modules for stakeholders
- b) Reduced TOR Issuance time
 - Turnaround Time To-Be faster by 30%
- EC/FC/CRZ/WL Issuance Time
 - Issuance time To-Be reduced by 30% to 40%
- d) Effective Compliance
 - Compliance ratio To-Be improved significantly
- e) Bespoke User Experience
 - Removal of redundant steps
 - Automation of workflows
 - Easy navigability
 - 360-degree view of data
- f) Reduce Instances of EDS / ADS
 - Significant improvement envisaged
- g) Entity Verification

- Integration with various regulators and statutory bodies e.g. MCA, NSDL, UIDAI
- h) Know Your Project PP
 - System generated checklists, rules and GIS-based DSS to minimize error leading to delays
- Robust Legal Repository
 - · Legal repository for PP, public and officials

1.7 Project Deliverables

The expected Project Deliverables of Envisaged CPC-Green can be best way defined with below three major components.

- a) User and Process level changes
- b) Application level changes
- c) Infrastructure level changes

1.7.1 User and Process Level Changes

Project Deliverables which have been envisaged under CPC- Green pertaining to User and Process Level Changes are depicted below:

- a) Deduplication of existing Users
- b) Revamping the User Registration and Management process
- c) User level authentication & synchronization.
- d) Automated & standardized process flow mechanism
- e) Formulating & executing roadmap for Business Process Reengineering
- Streamlining the Compliances & clearance processes pertaining to EC, FC, WLC, CRZ & ESZ.
- g) Empowering & Establishment of two-way communication mechanism between the regulatory authority & stakeholders.

1.7.2 Application & System Level Changes

- Single Window Platform for Clearance and Compliances of EC, FC, WLC, CRZ & Exotic Spices.
- Formulation for Various Integration processes including CTE/CTO Integration and State level integration.
- Realtime monitoring and compliance mechanism

- d) Enabling Alerts & Reminders for each system updates and notification
- e) Creation of National Entity Ledger for compliance across various projects
- f) Formulation of Solution Framework and design consideration for the proposed system pertaining to EC, FC, WLC, CRZ & ESZ
- g) Integrated Document Management System for effective decision making
- Technology Enhancement in the existing system
- Proposition of Advanced & emerging Technology stack for proposed system including AI, IOT, Analytics
- Deployment of Consultants and domain experts for effective project management ensuring successful implementation of the project.

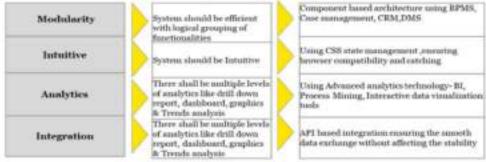
1.7.3 Infrastructure Level Changes

- a) Migration of existing system to proposed cloud-based environment based on data & transaction requirement.
- b) Cleaning, correction and verification of existing data prior to migration to cloud.
- c) Deployment of proposed system in NIC IDC Cloud ensuring parameters pertaining to data security, high availability and real-time synchronization and provisioning for data back-up.
- d) Definition of procedures, programs & processes.
- e) Creation of Disaster Recovery Zone and staging environment for the proposed system.

1.8 Desired Attributes of the System

The new system is envisaged to have the following attributes:

Figure 1: Attributes of Envisaged System



2. Key Stakeholders

2.1 Key Stakeholders - CPC-Green

The stakeholder is an entity with a declared or conceivable interest or stake in the project. Following stakeholder involvement will be critical to the success of the project.

2.1.1 Ministry of Environment, Forest and Climate Change (MoEFCC)

The Ministry is responsible for planning, promoting, coordinating, and overseeing the implementation of environmental and forestry programs in the country. The main activities undertaken by the ministry include conservation and survey of the flora of and fauna, forests and other wilderness areas; prevention and control of pollution; afforestation, and land degradation mitigation. It is responsible for the administration of the 1947 national parks of India. The ministry functions under environment, Forest, Wildlife, and Costal Regulatory Zone etc.

Integrated Regional Office - With a view of achieving outcomes related to the mandates of Ministry of Environment, Forest and Climate Change (MoEFCC) in an improved, timely and effective manner, and to further enhance its outreach to stakeholders, MoEFCC has approved establishment of 19 Integrated Regional Offices (IROs). These IROs started functioning from October 1st, 2020. Its basic functions as proposed are -

- Assistance to States/UTs in preparation of the Forest Clearance proposals
- Site inspection in case of proposals involving more than 100 hectares of forest land and renewal of mining leases
- Monitoring of implementation of conditions and safeguards stipulated in Forest Clearances
- Final disposal of proposals involving up to 40 hectares of forest land (except mining, regularization of encroachment and hydel projects) and all linear projects
- Processing of proposal involving between 5 hectares to 40 hectares for mining, regularization of encroachment and hydel projects in consultation with the REC;
- Maintenance of database on forest clearance including uploading of a copy of Stage-I (In-principle), Stage-II (Final) FCs, and minutes of REC on website of the Ministry

Wildlife Division - The Wildlife Protection Department helps providing protection to the wildlife flora and fauna and management of Protected Areas in the state.

Forest Division - Forest Department has the responsibility for managing some of the richest forests and biodiversity in State.

<u>Coastal Regulatory Zone - CRZ</u> Department has the responsibility for keeping the pollution check in the coastal regions and declare the sensitive zones as CRZ.

Expert Appraisal committee - The EACs' primary role in the environmental clearance (EC) process is to give recommendations to the Ministry of Environment, Forest and Climate Change (MoEFCC) on project proposals after considering the potential impacts of the project.

Based on these recommendations, the MoEFCC either rejects the proposal or grants a clearance with conditions which would mitigate the impacts or compensate for the same.

2.1.2 Forest Advisory Committee

The Forest Advisory Committee works as a key statutory body that considers and examines various proposals and approval related to applications for the diversion of forest land for non-forest uses such as mining, industrial projects, townships and advises the government on the issue of granting forest clearance. It primary performs advisory role, although it is comprised of official members of the Forest Clearance Process, and multiple independent experts, who are the non-official members. Primarily after receiving proposals/applications pertaining to forest clearance from IRO (Integrated Regional Office), MoEFCC may conduct FAC meeting for reviewing them.

2.1.3 National Board for Wildlife

National Board for Wildlife (NBWL), was constituted in 2003 under the Wildlife Protection Act, 1972, as a statutory board to perform advisory role in the domain of wildlife. NBWL is chaired by the Prime Minister and is responsible for promotion of conservation and development of wildlife and forests. This board can only advise the Government on policy making for conservation of wildlife. It has significant role in the wildlife clearance process, as it serves as an apex body for the review of all wildlife-related matters and for the approval of projects in and around national parks and

sanctuaries. In general, the standing committee of NBWL is chaired by the Minister of Environment Forest and Climate Change.

2.1.4 SPCB

The State Pollution Control Board implements a range of environmental legislation in the state. The SPCB functions under the administrative control of Environment Department of the state Government. Its basic functions are -

- To advise the State Government on matter relating to pollution and on sitting of industries
- To provide consent to establish and operate
- To plan program for pollution control
- To collect and disseminate information
- To carry our inspection
- To lay down effluent and emission standards
- To issue consent to industries and other activities for compliance of prescribed emission and effluent standards

2.1.5 Project Proponent

Project Proponent is the investor who wishes to set up a project in the country. Project proponent identifies the location of proposed project after ensuring compliance with existing siting guidelines. If project site does not agree with the siting guideline, the proponent must identify another alternative site for the project. The project proponent then assesses if the proposed activity/project falls under the purview of environmental clearance. If it is mentioned in schedule of the notification, the proponent conducts an EIA study either directly or through a consultant. If the project falls in B category, the project goes to the State Government for clearance which further categorize into B1 and B2 projects.

2.1.6 Consultants

The PP hire consultants to file their proposals for EC clearance. The consultants are QCI certified. It's the consultant's job to prepare the EIA/EMP report.

2.1.7 NGO's/Citizen

NGOs are non-governmental organizations usually referred to as organizations which are not part of government though could be funded by the government. The primary objective of these organizations is public service. As per one estimate, there are more than 3.3 million NGOs in India in 2009. In India, for an entity To-Become an NGO, it has to register either as a trust, society or a private limited non-profit company, under section-25, Company of the Indian Companies Act, 1956.1 NGOs involved in environmental governance are highly diverse, including local, national, regional and international groups with various missions dedicated to environmental protection, sustainable development, poverty alleviation, animal welfare and other issues.

2.1.8 Coastal Zone Management Authority (State)

The state costal management authority has the prime ownership of maintaining the coastal zone management plan and enforcing compliance basis conditions established in the issued CRZ clearance certificates.

2.1.9 CPCB

The Central Pollution Control Board (CPCB) of India is a statutory organization under the Ministry of Environment, Forest and Climate Change (MoEFCC). It was established in 1974 under the Water (Prevention and Control of pollution) Act, 1974. The CPCB is also entrusted with the powers and functions under the Air (Prevention and Control of Pollution) Act, 1981. It serves as a field formation and provides technical services to the Ministry of Environment and Forests under the provisions of the Environment (Protection) Act, 1986. It Co-ordinates the activities of the State Pollution Control Boards by providing technical assistance and guidance and resolves disputes among them.

3. Key Process Areas (AS IS)

3.1 Registration

The existing system has user registration process through which any user can register with PARIVESH.

3.1.1 Process Description

The current user registration process uses the user e-mail id as unique identifier. The same e-mail is used to verify the user. The current process has following challenges:

- 1. There is no mapping of user to project proponent
- There is no differentiation between the consultant or employee of the Project Proponent creating TOR
- 3. Above points are leading to duplicate entries

3.1.2 Process Flow Diagram

The following is the process map (As-Is) for user registration in PARIVESH:

Figure 2: Process Flow Diagram - User Registration

User Registration (As-Is)



3.1.3 Gap Analysis

Following are the key gaps in the existing application PARIVESH.

Table 2: PARIVESH Gap Analysis

Issues	Plausible Reason	This has resulted into many bogus users and junk data. This has resulted in duplication of several entities registered for different projects.
There are multiple duplicate users	Currently there is no unique user identifier being used. Currently there is no mechanism to authenticate entity details.	
There is no provision for entity authentication and de-duplication		

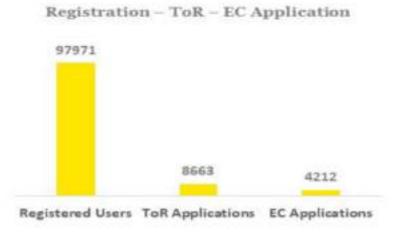
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Issues	Plausible Reason	Impact
There is no provision for user to entity mapping	There is no mechanism implemented to ensure that only authorized users are applying for ToR and EC.	Any users or even consultants can apply on behalf of any entity.

Since existing registration process is using e-mail as the unique identifier. This has led to following issues. There are many bogus users, as evident from following analysis:

Figure 3: Registration Statistics



- There are approx. 98,000 users registered in the system against 8663 ToR
 applications, and there are many duplicate records
 - 18% user id have duplicate users name
 - 50% user id have duplicate mobile number
 - 68% user id have duplicate contact person name
- There is a need to have 'Entity' registration process and users should be mapped to the 'Entity'
- 3. The Entity needs To-Be registered with unique identifier such as PAN
- There is a need for separate registration process for consultants and auditors
- The users should use some identifier rather than e-mail id. Aadhar no. can be one such alternative.

3.2 TOR

3.2.1 TOR Application

3.2.1.1 Process Description

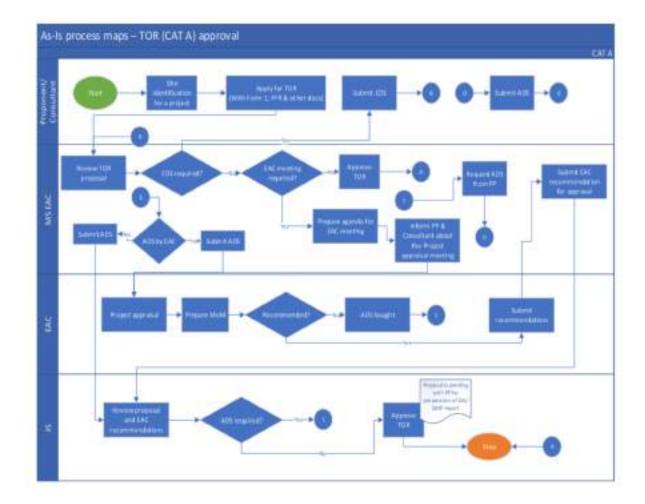
- Project proponent apply for the TOR application through Form 1 in the PARIVESH system.
- MS EAC review the proposal and if require do the EDS in the PARIVESH system.
- Project Proponent reply to the EDS in the PARIVESH system.
- If there is need for EAC meeting. MS EAC put up the file for EAC meeting else send the TOR for JS approval.
- 5. JS examines the proposal and if required asks for ADS, else approves the proposal.
- In case EAC is required MS EAC prepare the agenda of the meeting, put the proposal for EAC meeting and inform Project proponent for the meeting.
- EAC examines the proposal and asks for ADS if required. In case ADS is not required, it recommends the proposal.
- 8. The EAC recommended proposal is put for JS approval
- 9. JS approves the project, if found appropriate.
- 10. Post approval the project proposal is marked back to MS EAC for issuance of TOR.

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3.2.1.2 Process Flow Diagram

Figure 4: Process Flow Diagram - As-Is TOR (CAT'A) approval



3.2.1.3 Gap Analysis

Table 3: Gap Analysis As-Is TOR (CAT A) approval

Issues	Plausible Reason	Impact
Multiple data entry points for same data	Users attaching multiple copies of same data	Same data getting appended in the file. Authorities spending time to review the submitted docs
No system level support for data submitted by PP	System do not have real time data GIS integration not available	TOR getting issued without verification
Mix of PARIVESH and E-file in practice	Integration between PARIVESH and NIC's e- office is not there User more acquainted with NIC e office instead of PARIVESH	MIS impacted

3.2.2 TOR Extension

3.2.2.1 Process Description

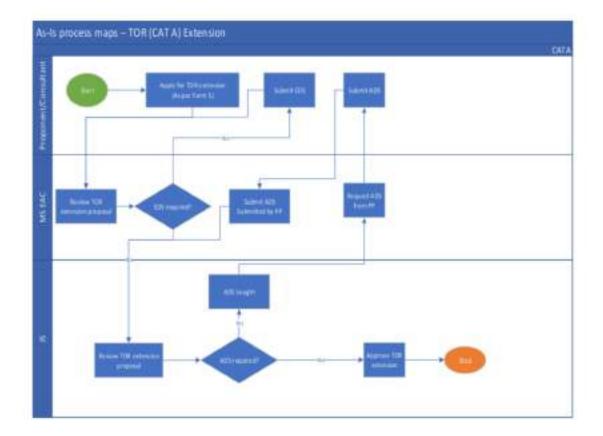
- Project proponent applies for TOR extension process as per form 5 in PAIVESH system.
- 2. MS EAC reviews the submitted TOK extension proposal.
- 3. MS EAC seeks essential documents if required, else recommends the TOR extension.
- JS reviews the TOR extension proposal and if required seeks additional documents else approves the TOR extension proposal
- 5. MS EAC does all communication to project proponent in the TOR extension process.
- EDS and ADS are submitted by the project proponent in PARIVESH.

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3.2.2.2 Process Flow Diagram

Figure 5: Process Flow Diagram - As-Is TOR (CATA) Extension



3.2.3 TOR amendment

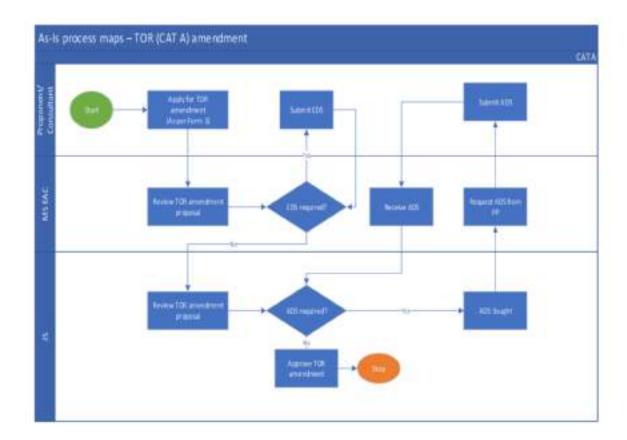
3.2.3.1 Process Description

- 1. Project proponent applies for TOR amendment as per Form 3 in PARIVESH
- 2. MS EAC reviews TOR amendment proposal
- MS EAC seeks essential documents if required, else recommends the proposal for approval.
- 4. JS reviews the TOR amendment proposal.
- JS seeks additional documents, if required. Else approves the TOR amendment proposal.
- EDS and ADS are submitted by the project proponent in PARIVESH.

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3.2.3.2 Process Flow Diagram

Figure 6: Process Flow Diagram - As-Is TOR (CATA) amendment



3.2.4 TOR Transfer

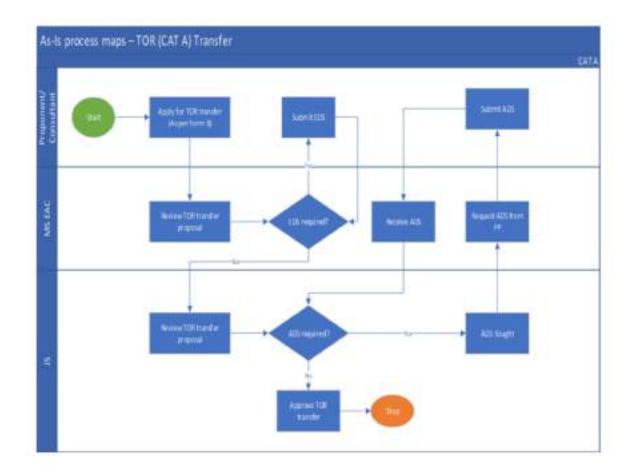
3.2.4.1 Process Description

- Project proponent/Consultant applies for TOR transfer as per <u>form 8</u> in PARIVESH application.
- 2. MS EAC examine the TOR transfer proposal.
- MS EAC seeks essential documents if required else recommends for the TOR transfer.
- 4. JS reviews the TOR transfer proposal.
- JS seeks additional documents if required, else recommends for the TOR transfer.
- 6. EDS and ADS are sent by MS EAC to Project proponent/Consultants.
- Project proponent/Consultant responds to MS EAC for all EDS/ADS.
- The effective date of EC transfer is the data of Minister's JS approval for TOR transfer

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3.2.4.2 Process Flow Diagram

Figure 7: Process Flow Diagram - As-Is TOR (CAT A) Transfer



3.3 Environment Clearance

3.3.1 Environment Clearance Application

3.3.1.1 Process Description

- Consultant performs baseline study.
- Consultant prepares draft EIA report.
- Consultant submits draft EIA report to SPCB for public hearing.
- SPCB HQ examines project proposal.
- SPCB HQ takes DM appointment for public hearing.
- SPCB HQ publishes the project proposal in at least 2 newspapers (within 15 days of proposal submission).
- 7. DM chairs the public hearing meeting and submits the MoM to MoEFCC.
- 8. PP Consultant apply for EC in PARIVESH
- MS EAC examines the proposal, does EDS if required, else prepares EAC meeting agenda.
- 10. Project is appraised in the EAC meeting and if required Additional Documents are sought else committee recommends the proposal.
- 11. MS EAC puts up the MoM for approval of the Minister/MoS.
- JS examines the proposal and asks for additional documents if required, else recommends the proposal
- AS/Secretary examines the proposal and asks for additional documents, if required, else recommends the proposal.
- Minister/MoS if require ask for additional documents else approve the proposal.
- All the ADS are sent to project proponent by MS EAC.
- Project proponent sends reply to all the ADS to MS EAC.
- Post approval of the project EC is issued to the project proponent w.e.f the data of Minister's/MoS approval.

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3.3.1.2 Process Flow Diagram



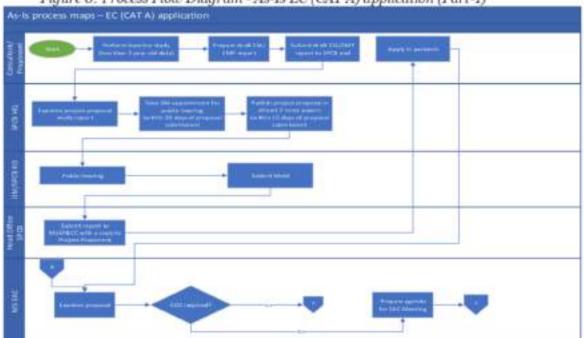
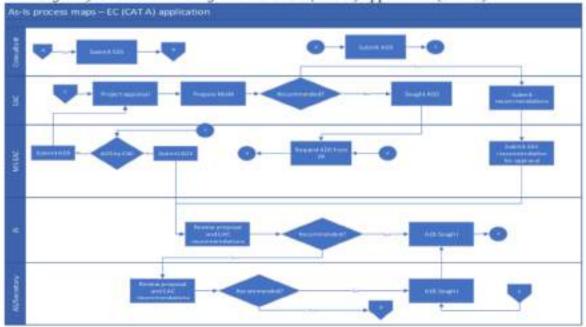
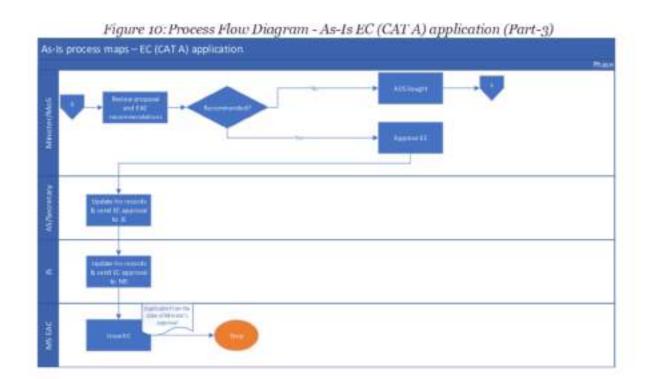


Figure 9: Process Flow Diagram - As-Is EC (CAT A) application (Part-2)



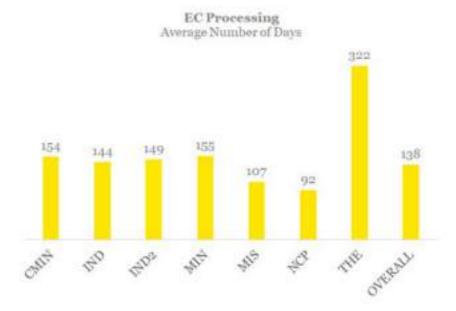


3.3.1.3 Gap Analysis

Table 4: Environment Clearance Gap Analysis

Issues	Plausible Reason	Impact
Public hearing outside PARIVESH	Module for Public hearing is not present in the PARIVESH	Timeline of EC impacted
Lengthy approval cycles for EC - modification, transfer and amendment	One size fit all approach having same workflow and rules for all changes	Proponent dissatisfaction due to delays
Lengthy EIA/EMP reports to study and examine	Reports are submitted in PDF format	Compliance process impacted
Delay in EAC meeting MoM finalization	Proposals are lengthy, MoM reports are subjective	Delays in Approval of EC meeting
Users pasting conditions in system for making MoM	MoM formats not standardized Diversity in sector specific conditions	Timeline for MoM submission impacted

Figure 11: EC (CAT A) Processing Statistics



3.3.2 Environment Clearance Extension of Validity

3.3.2.1 Process Description

- Project proponent/Consultant prepares draft EIA/EMP report for extension of the proposal
- Project proponent/Consultant submits the EIA/EMP report apply for extension of validity as per <u>form 6</u> in PARIVESH
- MSEAC examine the amendment proposal and if required seeks essential documents from the project proponent/Consultant
- 4. MS EAC prepares agenda for EAC meeting
- EAC examine the proposal for extension of EC
- EAC seeks additional documents if required else recommend the EC extension proposal
- JS examine the EAC recommendations and EC extension proposal
- If required, JS seeks additional document else recommend the EC extension proposal
- AS examine the EAC recommendations and EC extension proposal
- If required, AS seeks additional document else recommend the EC extension proposal
- 11. Secretary examine the EAC recommendations and EC extension proposal

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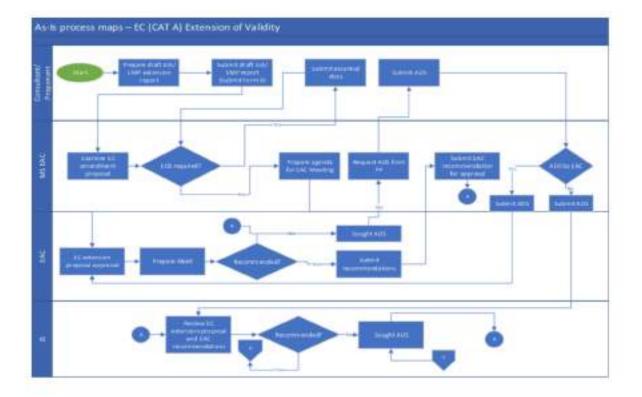
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- If required, AS seeks additional document else recommend the EC extension proposal
- 13. Minister/MoS examine the EAC recommendations and EC extension proposal.
- If required, Minister/MoS seeks additional documents else approve the EC extension proposal.
- 15. EDS and ADS are sent by MS EAC to Project proponent/Consultants.
- Project proponent/Consultant respond to MS EAC for all EDS/ADS.
- The effective date of EC extension is the data of Minister's/MoS approval for EC extension.

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3.3.2.2 Process Flow Diagram

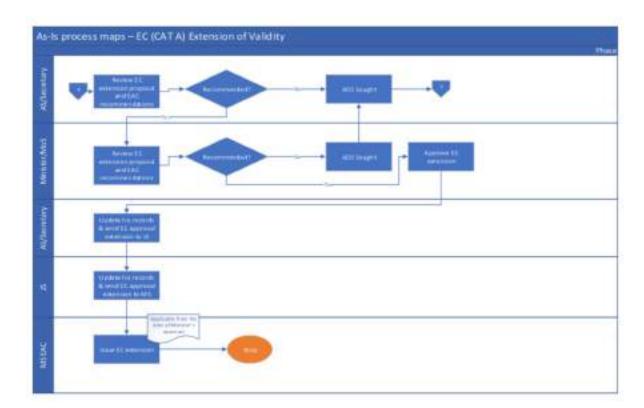
Figure 12: Process Flow Diagram - As-Is EC (CATA) Extension (Part-1)



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Figure 13: Process Flow Diagram - As-Is EC (CAT A) Extension (Part-2)



3.3.3 Environment Clearance Amendment

3.3.3.1 Process Description

- Project proponent/Consultant apply through <u>form 4</u> for EC amendment in PARIVESH system.
- MS EAC review TOR amendment proposal.
- MS EAC seeks essential documents if required else recommend the proposal for amendment.
- MS EAC sough additional documents if required else recommend the proposal for amendment during appraisal meeting.
- JS seeks additional documents if required else recommend the proposal for amendment.
- AS/Secretary seeks additional documents if required else recommend the proposal for amendment.
- Minister/MoS seeks additional documents if required else approve the EC amendment.
- Member EAC do all communication to project proponent in the EC amendment process.
- 9. EDS and ADS are submitted by the project proponent in PARIVESH

Detailed Project Report: CPC- Green

3.3.3.2 Process Flow Diagram

Figure 14: Process Flow Diagram - As-Is EC (CAT A) Amendment

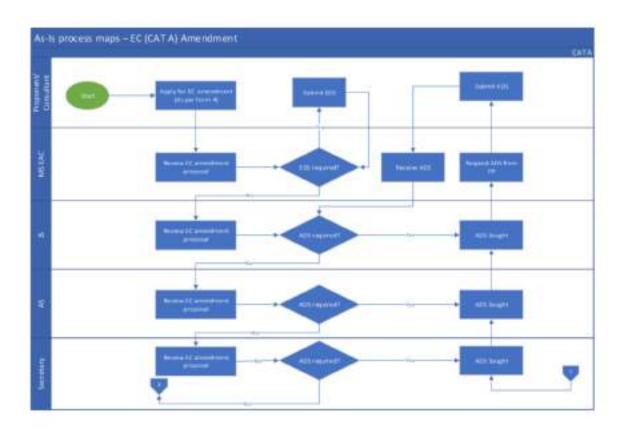
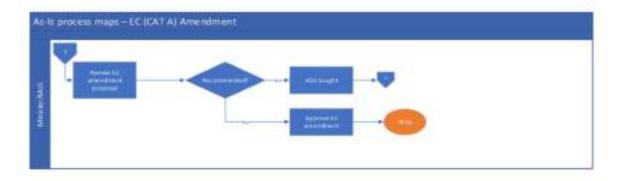


Figure 15: Process Flow Diagram - As-Is EC (CATA) Amendment



3.3.4 Environment Clearance Transfer

3.3.4.1 Process Description

- Project proponent/Consultant apply for EC transfer as per Form 7 on the PARIVESH application.
- 2. MS EAC examine the EC transfer proposal.
- MS EAC seeks essential documents if require else recommend for the EC transfer.
- 4. JS reviews the EC transfer proposal.
- JS seeks additional documents if require else recommend for the EC transfer.
- AS reviews the EC transfer proposal.
- In case of change of ownership, if required AS seeks additional documents if require else recommend for the EC transfer. For other cases if required AS seeks additional documents else approve EC transfer.
- 8. Secretary reviews the EC transfer proposal.
- Secretary seeks additional documents if require else recommend for the EC transfer.
- Minister/MoS reviews the EC transfer proposal.
- Minister/MoS seeks additional documents if require else approve for the EC transfer.
- EDS and ADS are sent by MS EAC to Project proponent/Consultants.
- Project proponent/Consultant respond to MS EAC for all EDS/ADS.
- The effective date of EC transfer is the data of Minister's/MoS approval for EC transfer.

Detailed Project Report: CPC- Green

3.3.4.2 Process Flow Diagram

Figure 16: Process Flow Diagram - As-Is EC (CAT A) Transfer (Part-1)

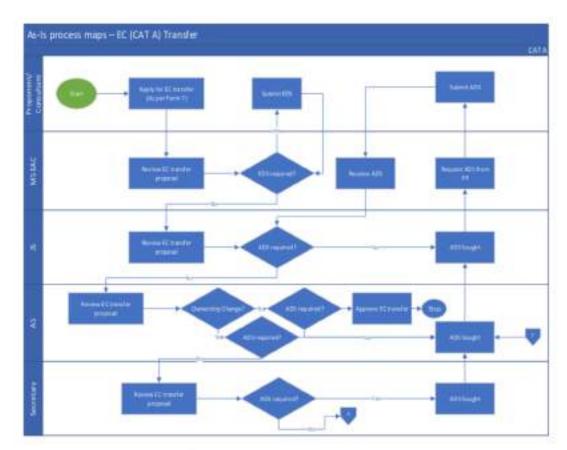
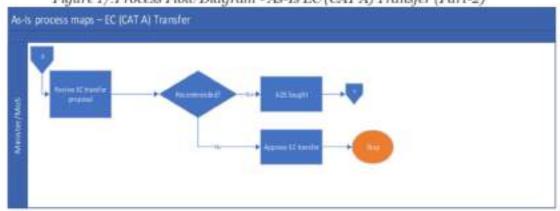


Figure 17: Process Flow Diagram - As-Is EC (CAT A) Transfer (Part-2)



3.4 CTE, CTO & Authorization

Consent to establish is issued by the State Pollution Control Board. It gauges project feasibility within the purview of basic criteria and directs the proponent on pollution mitigation infrastructure & processes that needs To-Be established at the project, to ensure it adheres with the norms of the air & water acts.

Consent to operate is the final clearance required by a project before it commences operations. The state pollution control board, before the issuance of CTO, ensures that the project is compliant with all the guidelines laid down in the CTE letter and the EIMP plan (in case of applicability of environmental clearance). The pollution control board also checks applicability and status of clearances required from other government regulatory departments.

Currently 25 states are using a system developed by NIC (OCMMS) and the other are using applications developed by other parties (government or private).

Several states have also developed a single window clearance system which serves as a common project/proponent registration & identification platform. For the management and monitoring of CIE & CIO, these single window systems are integrated with OCMMS via registration & log-in APIs. (The user can log-in onto the single window system and select the CIE CIO application, this directs him onto the OCMMS platform where he does not have to log-in again)

Different undertakings are categorized under red, orange, green & white categories and are dealt procedurally by the SPCBs. A representative process map of existing CTE, CTO & Authorization issuance is illustrated below:

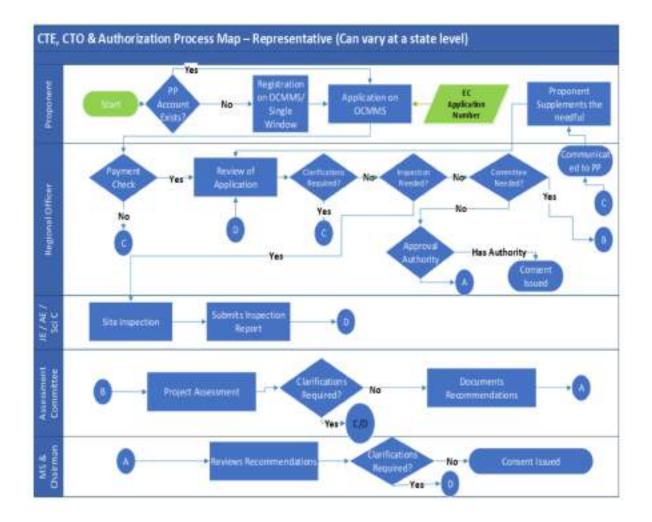
3.4.1 ProcessDescription

- Proponent creates an account on OCMMS, or state single window system & applies for the needed consent
- Regional officer, SPCB checks for the payment status of the application
- The application is categorized (in white, green, orange & red categories). Site inspection & appraisal committee requirements are assessed by the regional officer, SPCB
- Project site is inspected by Junior/Senior Engineer, and the findings are submitted to the regional office, SPCB
- If applicable, the technical appraisal committee scrutinizes the applications and submits its recommendations

Consent is issued by relevant authority (RO/MS) depending on the criticality of the project

3.4.2 Process Flow Diagram

Figure 18: Process Flow Diagram - CTE CTO & Authorization



3.4.3 Gap Analysis

Table 5: Gap Analysis CIE CIO & Authorization

Issues	Plausible Reason	Impact
Lack of unique proponent identification	 Lack of unique identifier for entity during registration Registration through single window system 	Difficulty to uniquely identify entity & projects across systems
Lack of cohesive reports from databases of centre and state systems	PARIVESH and OCMMS were independently developed There was limited requirement for integration dashboarding	Centre does not have access to state level activities of its proponents
Reliance on PP for status and applicability of EC	Lack of integration between PARIVESH & OCMMS Traditional reliance on proponents for provisioning of information	State lacks clarity on applicability & clearance of EC which is, at times, a pre- requisite for CTO
Payment check is a manual step executed by the regional officer	The need for automation module was not a requirement	Officers expend bandwidth on non-value adding activities

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Issues	Plausible Reason	Impact
Site inspection is a prerogative of the regional officer	There is no rule-based approach to decide the requirement of a site inspection	Site inspection is not a robust process
The conditions of consent are unavailable in a standardized format	Conditions have not been standardized for cataloguing	Compliance monitoring is a manual process
Different accounts can be registered for the issuance of CIE & CIO	The need for unique project identification was not a requirement	Duplicate accounts of the same project make tracking of consents a manual process

3.4.4 Import & Export of Hazardous Material

Import export of hazardous material requires approval of The Ministry for which the following documents are mandatory -

- Form 5 of Hazardous and Other Waste Rules, 2016
- Justification for the import/export
- Valid Consent to Operate
- Valid authorization under Hazardous and other Waste Rules, 2016

Other documents are needed depending on the nature of imports.

The application is To-Be submitted on-line on <u>iwms.nic.in</u> and is subsequently processed by the concerned Member Secretary. An appraisal committee is arranged depending on the proposed size and criticality of the activity.

The systems of import/export of hazardous wastes is To-Be brought under the purview of the proposed system to enable a single window clearance system.

3.5 EC Compliance

Regional Office — MoEFCC bears the responsibility of scrutinizing six monthly compliance reports as submitted by the project proponents. Compliance & Monitoring Cell, MoEFCC has currently mandated the Ministry's Regional Offices to conduct at least 5 field monitoring visits every month.

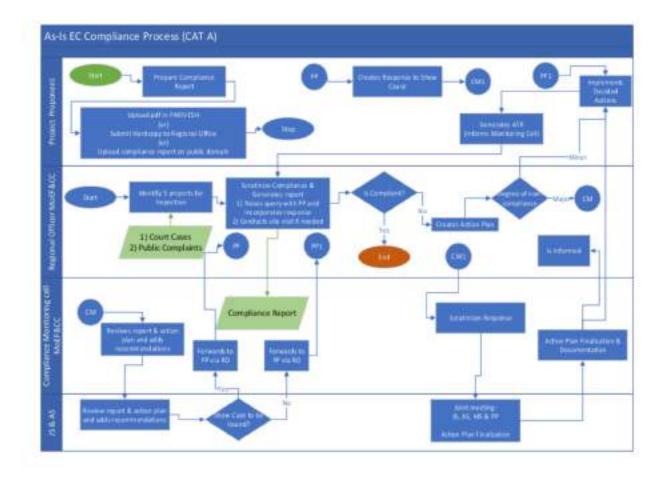
3.5.1 Process Description

- Proponent submits compliance report on PARIVESH/Hard Copy to RO / Public Portal
- Regional Office identifies five projects per month for monitoring and inspection
- 3. Inspection reports are submitted to Compliance & Monitoring Cell, MoEFCC
- Minor offences are managed by the regional office itself while major offences require intervention of the compliance and monitoring cell
- In case a show cause notice is To-Be issued, the same is done when directed by the ministry
- For cases that have attracted a show-cause notice, a joint meeting of the proponent, Member Secretary (Compliance and Monitoring cell) and Joint Secretary is chaired by the Additional Secretary

The action points hence finalized is implemented by the regional office while keeping the compliance and monitoring cell informed with updates

3.5.2 Process Flow Diagram

Figure 19: Process Flow Diagram - As-Is EC Compliance(CATA)



3.5.3 Gap Analysis

Table 6: Gap Analysis As-Is EC Compliance (CAT A)

Issue	Plausible Reason	Impact
Lack of standardization of clearance conditions	Clearances have historically been issued in the form of non- standardized documents	Inability to compare reported values against clearance conditions
No repository and tracking of compliance reports	Upload of compliance reports on PARIVESH is not a mandate	Minimal tracking of proponent compliance reporting
No external validation of /reported data	Conventional reliance on project proponent for correctness of data	Possible falsification of reporting by proponent
Lack of a pro-active systematic site inspection criteria	Reliance on regional office for site selection	Site selection procedure is not robust and has an element of chance to it

3.6 CRZ Clearance

The Coastal Regulation Zone clearance is required by proponents that intend to establish projects in areas that fall within 500 meters from the high tide line on the seacoast.

In order to operationalize the guidelines established by the coastal regulation zone notification, every state with a coastline needs to develop and maintain a coastal management plan. MoEFCC recommends that the coastal management plan be updated periodically once every 5 years.

3.6.1 CRZ Clearance Application

For a proponent to establish a project in this protected region, a preliminary approval from the state coastal zone management authority is required. The recommendations of the state coastal management authority are To-Be attached alongside the clearance application when the proponent applies for the clearance with MoEFCC.

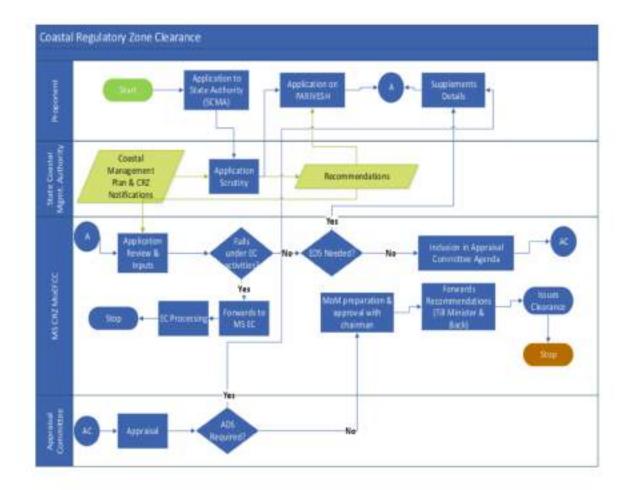
3.6.1.1 Process Description

- Proponent applies for clearance at state coastal zone management authority
- State coastal management authority gives preliminary approval / recommendation
- Applicant applies on PARIVESH attaching the state's recommendation in the application
- 4. The application is scrutinized by a committee
- 5. The committee's recommendations are documented and processed for clearance
- 6. Clearance is issued

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3.6.1.2 Process Flow Diagram

Figure 20: Process Flow Diagram - Coastal Regulatory Zone Clearance



3.6.1.3 Gap Analysis

Table 7: Gap Analysis Coastal Regulatory Zone Clearance

Issue	Plausible Reason	Impact
The process of SCZMA approval is manual	SCZMA were not enabled PARIVESH or state application	States recommendations need To-Be forwarded manually to the ministry
Proponents can apply for EC & CRZ from different accounts	Unique account for each entity was not enforced	The CRZ application is To- Be forwarded manually for a composite clearance
Applications that fall under lower jurisdictions come to MoEFCC	There is no decision support system for proponent to identify the right issuing authority	MS - MoEFCC expends bandwidth on filtering these applications

3.7 CRZ Compliance

Six monthly reports are submitted by the proponents to the regional offices either through an upload on PARIVESH or in the form of hard copies. The onus of monitoring compliance lies on Regional Office – MoEFCC but the decision and implementation of action lies on the State Coastal Zone Management Authority.

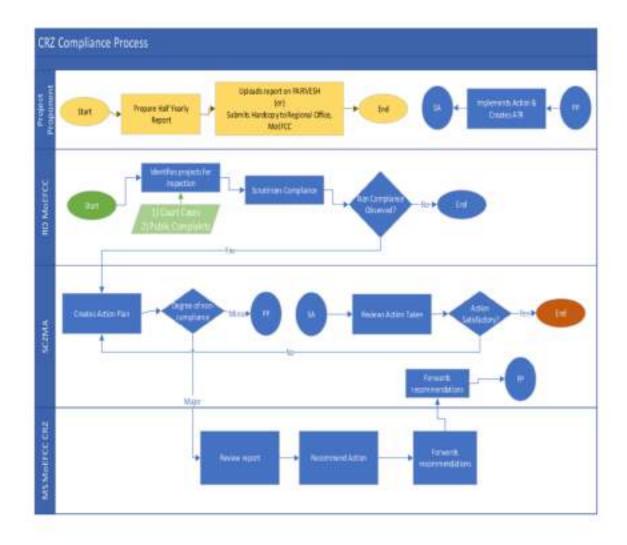
3.7.1 ProcessDescription

- Proponent submits compliance report via PARIVESH upload/submission of hard copy at RO
- Regional Office, MoEFCC scrutinizes compliance of select projects basis pending court cases and public complaints
- Upon observance of non-compliance, SCZMA is informed of the same for finalization of action and its subsequent implementation
- 4. SCZMA takes inputs from The Ministry in case of a major non-compliance

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3.7.2 Process Flow Diagram

Figure 21: Process Flow Diagram - CRZ Compliance Process



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3.7.3 Gap Analysis

Table 8: Gap Analysis CRZ Compliance Process

Issue	Plausible Reason	Impact
No repository and tracking of compliance reports	Upload of compliance reports on PARIVESH is not a mandate	Minimal tracking of proponent compliance reporting
Lack of a systematic project inspection criteria	Reliance on regional office for project selection for compliance and monitoring	Ineffective monitoring
The ministry has minimal oversight on CRZ compliance	There is no mandate on RO or MoEFCC to update the ministry with compliance status	The ministry is reliant on regional authorities for compliance monitoring

3.8 Forest Clearance

3.8.1 Process Description

- User Agency (UA) submits Part-1 of online FC application
- State Nodal Officer reviews the application and seek essential / additional details
- UA submits essential / additional details.
- State Nodal Officer raises query to UA for submission of hard copy of the proposal
- UA manually submits hard copy of the proposal to DFO(s)
- UA upload copy of signed receipt received from DFO(s) in PARIVESH.
- Accepts the application and forwards it to all concerned DFO(s)
- DFO fills Part-II of the application, upload Site Inspection Report (SIR) and Recommendation
- Conservator of Forest (CF) and then Nodal officer uploads SIR (Optional) and Recommendation

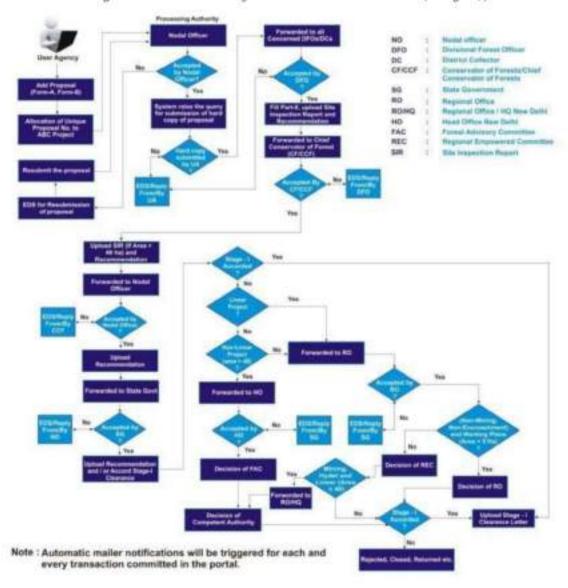
Detailed Project Report: CPC- Green

- 10. State Secretary uploads Recommendation and do any of the following:
 - i. Grants Stage-I Clearance for Area <=1 Ha
 - Forward to IRO (Non-Linear and Hybrid < 40 Ha and All Linear Projects)
 - Forward to MoEFCC (Non-Linear and Hybrid >= 40 Ha)
- (a) IRO assigns File No., add MoM of REC(IRO may ask for decision of ROHQ
 if proposal belongs to Mining, Hydel, enchrochment or Quarrying category),
 uploads Note sheet and grants Stage-1 Clearance (All Linear Projects and NonLinear and Hybrid< 40 Ha).
 - (b) MoEFCC seeks SIR from IRO in case of Proposal having area>100 ha. After this or elsewise assigns File No., add MoM of FAC, uploads Note sheet and grants Stage-I Clearance (Non-Linear and Hybrid >= 40 Ha
- UA receive Demand details from involved DFOs and submit complete demand details of the proposal
- 13. Nodal Officer verifies Demand Details
- UA generates Challan and make payment
- UA submit Mutation Details
- Nodal Officer verifies Mutation Details
- UA submits Compliance Report.
- 18. Nodal Officer verifies Compliance Report and forwards it to the State Secretary.
- 19. State Secretary verifies Compliance Report and do any of the following:
 - Grants Stage-II Clearance (in case Stage-I Clearance has been granted by State Secretary)
 - Forward to IRO or MoEFCC (depending on granted Stage-1 Clearance)
- (a) IRO uploads Stage-II Note sheet and grants Stage-II Clearance (in case Stage-I Clearance has been granted by IRO).
 - (b) MoEFCC uploads Stage-II Notes sheet and grants Stage-II Clearance (in case Stage-I Clearance has been granted by MoEFCC).
- 21. After Stage-II Clearance, State Secretary uploads Final Approval Letter

Detailed Project Report: CPC- Green

3.8.2 Process Flow Diagram

Figure 22: Process Flow for Forest Clearance Process (Stage-1), Form A & B



NO DFO Redak officer Christmal Farest Officer District Callington bc CF/CCF 80 Response Office / HQ New Oalts BOHO Head Office New Defici HO FAC Forest Advisory Comm HEC Regional Einpreservol Commi Site impaction Report. make Note: Automatic mailer notifications will be triggered for each and

Figure 23: Process Flow for Forest Clearance Process (Stage-1), Form C

3.8.3 Gap Analysis

every transaction committed in the portal.

Table 9: Gap Analysis Forest Clearance Process

Issue	Plausible Reason	Impact
Lack of standardization of clearance conditions	Clearances have historically been issued in the form of non-standardized documents	Inability to compare reported values against clearance conditions
Need to define compliance monitoring mechanism	Currently, the compliance is monitored externally by GSI	Inability to effectively monitor the compliance

	and FSI as per their requirements	
Currently part of process is manual	Delay in application processing for clearance	Delay in giving clearance
Submission of hard copy by project proponent/user Agency	Currently, the portal does not provide any option to share soft copy/digital format of proposal. Primarily one submits hard copy of proposal to DFO/DCF for Forest Clearance	Delay in processing between multiple approva- authority, and weakened traceability of proposal/approval

3.9 Wildlife Clearance

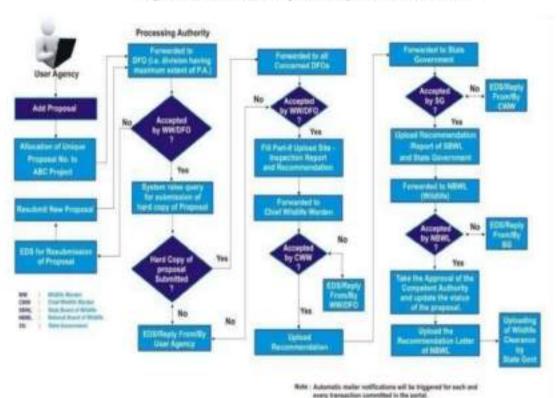
3.9.1 Process Description

- User Agency (UA) submits Part-I & II of online WL application
- Wildlife Warden (having maximum Protected Area of the project) reviews the application and seek essential / additional details UA submits essential / additional details
- Wildlife Warden raises query to UA for submission of hard copy of the proposal
- UA manually submits hard copy of the proposal to Wildlife Warden(s)
- UA uploads copy of signed receipt received from Wildlife Warden(s) in PARIVESH
- Wildlife Warden accept the application and forwards it to all the concerned Wildlife Warden(s).
- Respective Wildlife Wardens fill Part-III of the application, upload Site Inspection Report (SIR) and Recommendation.
- Chief Wildlife Warden fills Part-IV of the application and uploads Recommendation.
- State Secretary fills Part-V of the application by first adding the Recommendation of SBWL and then the Recommendation of State Secretary.

- 10. State Secretary then forward the proposal to NBWL
- NBWL reviews the proposal, uploads Agenda and MoM and then adds the recommendation and the application is disposed at central level.

3.9.2 Process Flow Diagram

Figure 24: Process Flow for Wildlife Clearance Process



Gap Analysis

Table 10: Gap Analysis Wildlife Clearance Process

Issue	Plausible Reason	Impact
Lack of standardization of clearance conditions	Clearances have historically been issued in the form of non-standardized documents	Inability to compare reported values against clearance conditions
Need to define compliance monitoring mechanism	Currently, the compliance is monitored at local level	Inability to effectively monitor the compliance

Currently part of process is manual	Hardcopy is handed over to local officials for site inspection	Delay in giving clearance
GIS data is not accurate	High resolution GIS data is not available	Dilutes the effectiveness of DSS
Notification and de- notifications are not available in real time	Gap between notification / de- notification and GIS data update	Delay / error in application processing
Submission of hard copy by project proponent/user Agency	Currently, the portal does not provide any option to share soft copy/digital format of proposal. Primarily one submits hard copy of proposal to DFO/DCF for Wildlife Clearance	Delay in processing between multiple approval authority, and weakened traceability of proposal/approval

3.10 Exotic Live Species

3.10.1 Process Description

- User Agency can fill the Exotic Live Species application form for the following cases:
 - Declaration of stock of Exotic Live Species (Voluntary Disclosure, Transfer, Acquisition or Death)
 - ii. NOC for import of Exotic Live Species
- iii. Registration of progeny of previously held Exotic Live Species stock
- User Agency submits the required application form for approval from the State's Chief Wildlife Warden.
- The State's Chief Wildlife Warden may approve/reject the application and uploads Approval Letter for approved application.

3.10.2 Gap Analysis

The existing application is being enhanced for new features. If this application needs To-Be migrated to new platform, then all features should be available, and data must be migrated.

3.11 Assessment of Forms

3.11.1 Input Forms Rationalization

Following information/Clauses are found common between Form 1 and Form 2. User may be given option to enter these details only once and system should populate these values in different forms.



Figure 25: Input Form Rationalization

Following information/Clauses are found To-Be common between Form 2 and EIA report. User may be given option to enter these details only once and system should populate these values in different forms.

Figure 26: Information/Clauses Form 2 EIA Report



Runoff from site and Storm water Orainage during Operation Phase

4. Assessment of Current IT Infrastructure and Applications

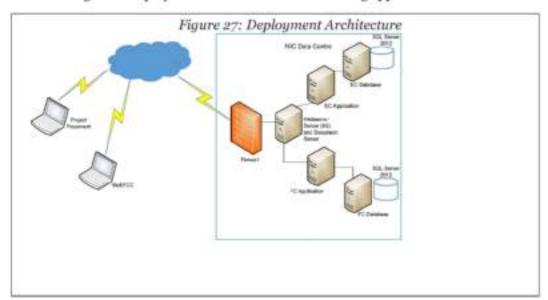
Currently MoEFCC is using PARIVESH for Environment clearance. The application covers procedural aspects for EC under category-A, whereas another application OCMMS is being used by several state governments for EC under Category -B and for CTE and CTO.

PARIVESH is developed with following technology landscape and currently being supported by NIC and hosted at NIC servers.

Table 9: Technology Landscape

S. No.		Technology	
1	Framework	.Net 4.5 (ASP.Net)	
2	Programming Language	C#	
3	Server OS	Windows Server 2012 R2	
4	Database	MS SQL Server 2012	
5	IDE	MS Visual Studio 2013	
6	Frontend Language	Java Script, HTML, CSS	

Following is the deployment architecture of the existing application PARIVESH.



The existing application PARIVESH needs significant enhancements which will also require redevelopment of some functionalities. Thus, it's advisable to refresh the existing application.

4.1 Existing applications – Key Features

PARIVESH is a web based, role based, G2C and G2G workflow application developed for online submission and monitoring of the proposals submitted by the Project Proponent for seeking forests, environment and wildlife clearances for their respective projects. It automates the end to end tracking of proposals including online submissions of a proposal, editing/updating the details of proposals and display status of the proposals at each stage till EC issued / rejected. A single window interface is also provided to the user agencies for the submission of proposals for Environmental (Category A and Category B), Forests, Wildlife and Costal Region (CRZ) Clearances.

Presentation Layer MVC Views (Java Script, HTML, CSS) MVC UI Common Web API Controllers Utilities Controllers Service Interface, Service Factory Common Utilities. RESTful **Business Logic** Log. API Config Data Access (ADO:Net) Documents SQL Server Database Storage

Figure 28: Existing Application Architecture

The application has the following key features:

- Online Industry Registration of all type of clearances
- Environment Clearance for Category A and Category B (For State SEIAA/SEAC)
- 3. Forest Clearance for Form A, Form B, Form C
- Wildlife Clearance
- Costal Regulation Zone Clearance with OCMMS

- 6. E-Noting
- 7. Compliance and Monitoring Module
- 8. PARIVESH Centralized MIS Dashboard for MoEFCC/ Citizen/ SEIAA/SEAC
- Technical PARIVESH Support Centre for industries as well as for SEIAA/SEAC officials etc.
- 10. Ministry IA division Admin Module
- 11. Dynamic Report/Queries

4.2 Gap Analysis - PARIVESH

Table 10: Gap Analysis - PARIVESH

	Functional Problems		Technical Problems
	There is no entity validation There is no unique identifier for users and entities	1.	The existing system also has junk data and some missing data that needs To-Be cleaned
3.	There is no registration of consultants	2.	There are data issues like duplicity, relevance and
4.	There is no functionality to manage the attached documents		inconsistency etc. which need To- Be addressed
5-	There is no functionality to support legal knowledge	3-	The application is monolithic and lacking modular architecture
6.	management There is no provision for	4.	There are application performancissues
7-	delegation of tasks in the system The existing system is lacking in required analytical capabilities	5-	The database has evolved over a period of times and the required relationship among the entity tables is missing
		6.	The existing system does not have flexible approach for integration and each integration need To-Be developed specifically
		7.	There is no provision of DR site making it vulnerable

5. Business Process Reengineering

5.1 To-Be Process for Registration

In proposed system, there shall be a comprehensive registration system which will deal with registration of following:

- a. Entity
- b. User

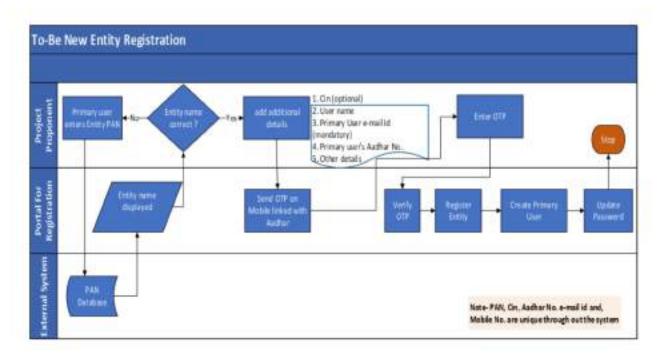
For existing users, there shall be a KYC process that will update all required additional details. Matters related to the To-Be Process Maps has been discussed and recorded in minutes of the meeting dated 21st August and 23rd September 2020. Detailed minutes of the meeting have been placed at Annexure-1, 11 and 111 under section 9.4.1,9.4.2, and 9.4.3, respectively.

All Business Processes will be finalised by the MoEFCC.

5.1.1 To-Be Process Description for Registration

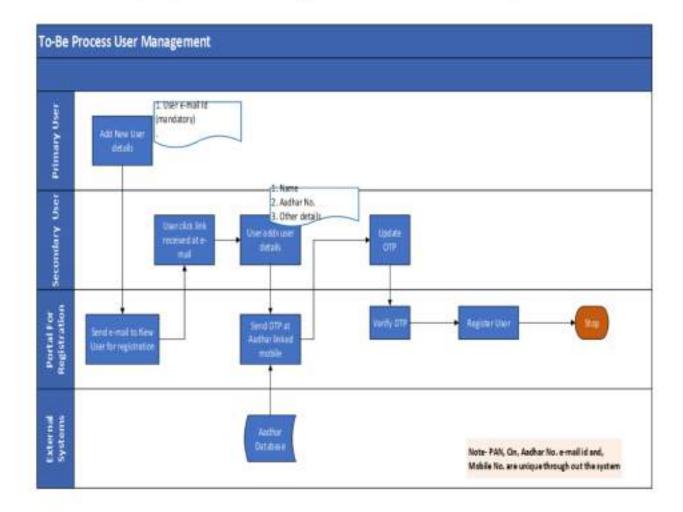
A. Entity registration – This process will deal with registration of the entity to tack all projects for the same entity. Each entity will use PAN as unique identifier. The creation of entity will also create a primary user.

Figure 29: Process Flow Diagram - To-Be Entity Registration



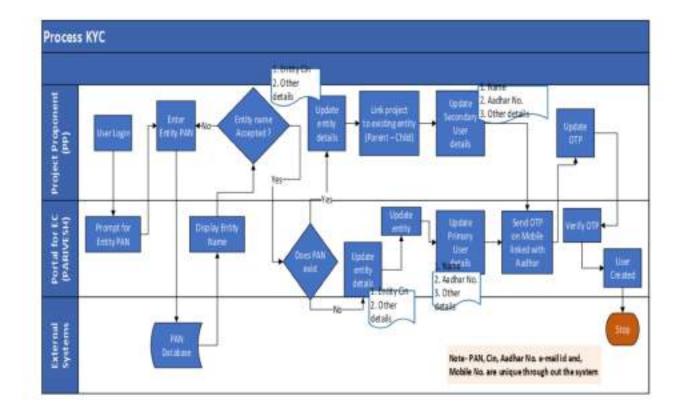
B. User Management – The primary user can create Secondary users. All such users shall be mapped to the entity they do belong to. Each user will be uniquely identifiable with Aadhar No.

Figure 30: Process Flow Diagram - To-Be Process User Management



C. KYC – The existing projects with EC data need the seeding of unique identifier PAN for the entities. This KYC process will also be used for capturing additional details of the existing user through specialized drive and making it mandatory for using the system for any purpose.

Figure 31: Process Flow Diagram -Seeding of PAN



5.1.2 Changes Proposed in To-Be Process for Registration

- The Registration application shall add two new type of registrations with unique identifiers.
 - a. Entity
 - b. Primary & Secondary users
- User registration will change significantly. Each user will be uniquely identifiable with Aadhar No. Primary user will be created with entity creation, but other users created by the primary user will be mapped to the entity
- 3. KYC process will update the required details of existing user.

Table 11: Changes Proposed Entity Registration

Change	Details	Benefits
Use PAN* for entity validation	NSDL will authenticate PAN and CIN will be option. In future CIN can be used for getting additional details from MCA	There will be no duplicate entity Unique entity data will enable in maintaining entity ledger for all transactions
Use Aadhar for user identification and authentication	 Users will be uniquely identified Users can use e-sign 	 Each user is individually validated Identified users for each transaction

*Reason for choosing PAN as unique identifier for entity -

- We evaluated multiple unique identifiers such as CIN, PAN and GSTN
- Project proponent may be a corporate entity or individual (apart from public sector entity)
- CIN covers only registered Partnership firms and companies
- Some entities may have operations in multiple states thus such entities have multiple GSTN
- Based on above, PAN is the best unique identifier as its available to all legal entities like company, partnership firms, individuals, societies and trust etc.

- PAN APIs are easily available
- Aadhar for individuals To-Be used for enabling the users for e-sign

5.2 To-Be Process for TOR

5.2.1 To-Be Process for TOR Application

5.2.1.1 Process Description: To-Be TOR Application

- Project proponent login with the unique id and password along with digital signature.
- Project proponent create project in the system.
- Project Proponent select consultant in the system.
- Project proponent map the consultant and the project in the system.
- Consultant post approval of the mapped project enter the GIS coordinates in the system.
- Consultant selects sector in the system.
- Consultant enters the GIS coordinates or upload kill file in the system.
- System based on the entered GIS coordinates selects and the inbuilt DSS rules tell
 what is whether the project is prohibited, regulated or allowed in that region.
- 9. In case the project is regulated or permitted the consultant fill form 1. The form 1 has a unique reference and is divided into two sections (A and B). Section A has measurable and quantitative conditions. There would be option in the system to capture quantum for these conditions. Section B would be having qualitative conditions. There would be option to enter percentage complied with these conditions in the system.
- Consultant would submit the form 1 to Project proponent for approval.
- Project proponent approves the form 1 and it gets submitted to the MoEFCC.
- 12. In case it is rejected by the Project proponent it gets back to the consultant for necessary modifications and he will resubmit the same.
- 13. As the project gets submitted to the Ministry, CPC review the submitted proposal. In case any EDS (Essential Document Sought) is required. CPC raise EDS through the system and the request goes to Consultant, Project proponent and the registered employee of the company in the system.
- Consultant prepares the response to EDS in the system and submit to project proponent for approval.

- 15. If satisfied with the response the project proponent approves the EDS submission to the MoEFCC else, ask consultant to resubmit the EDS to the consultant in the system.
- 16. Submitted EDS is reviewed by the CPC and examine the need of EAC meeting. If EAC meeting is required, the proposal is put up for EAC meeting and project proponent is informed accordingly else MS EAC review the proposal and recommend the project.
- 17. JS reviews and examine the proposal received from MS EAC, if required sought ADS, else se approve the TOR proposal. TOR Form should have reference from Form 1, pre-filled data required from Form 1. Sector specific conditions. It will be having two sections namely A and B, in which Section A will be having measurable conditions and Section B should be having qualitative conditions. System should be having option to capture conditions of section a in there measuring units and Conditions in Section B should be measured in terms of percentage.
- EAC conduct meeting as per schedule.
- 19. During the project appraisal in case EAC feels the requirement to seek the additional document, CPC sought additional document from the project proponent/Consultant.
- 20. In case if, Additional documents are not required EAC recommend the proposal.
- 21. JS reviews and examine the TOR application form and in case if ADS do not require approve TOR. The content of TOR would be as per point no 17 of this section.
- All the correspondence to project proponent/Consultant would be done by the CPC and that too from the system.
- 23. Response of EDS/ADS would be received through the system by the CPC.
- 24. CPC will examine and put up the response received for approval through the system.

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5.2.1.2 Process Flow Diagram: To-Be TOR Application & Approval Process

Figure 32: Process Flow Diagram - To-Be TOR Application & Approval (Part-1)

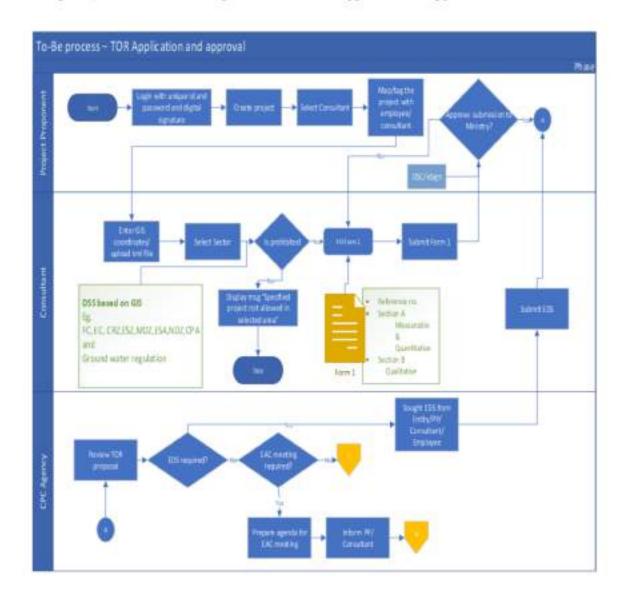
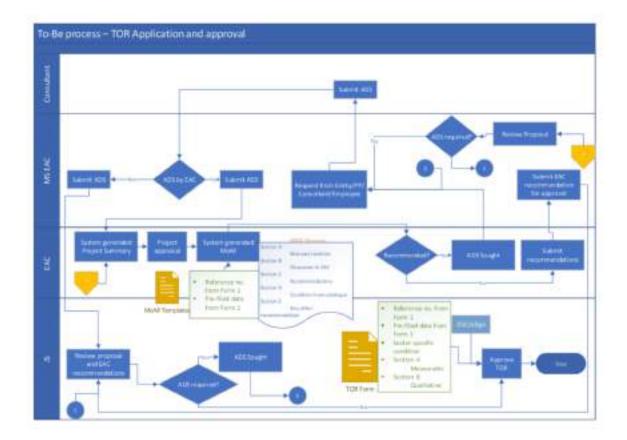


Figure 33: Process Flow Diagram - To-Be TOR Application & Approval (Part-2)



Detailed Project Report: CPC- Green

5.2.1.3 Changes Proposed: To-Be TOR Application & Approval Process

Table 12: Changes Proposed TOR Application & Approval

Change	Details	Benefits
Form Rationalization	Capture once principle is To-Be applied and the information captured in Form 1. In case if any value gets changed in between user may be given with the option to change the information. However, the changed information should be highlighted in red colour and subsequently the newly entered values should be taken into consideration by the system.	Elimination of duplicate and erroneous entries Reduce effort for validation of same information at multiple points
Non-repudiation	Digital signature, eSign implementation	Faster process Enhance accountability
TOR - generated only through system	Standard TOR generated from System only	Elimination of manual work. Inconsistencies happening due to mix mode (manual and electronic) gets sorted.
Unique number for Form 1 and TOR and these numbers To-Be linked with other related forms/certificates generated in future	Unique id for TOR To-Be followed throughout the life Combination of Year, Sector, file no, TOR no	Tracking of TOR for its entire life cycle

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Change	Details	Benefits
Standardization of MoM templates	Separate MoM for each PP meeting Template for each sector Segregation of Standard and Specific condition Option to customize the pollutant parameters in the conditions	Time reduction in MoM finalization and thus in EC

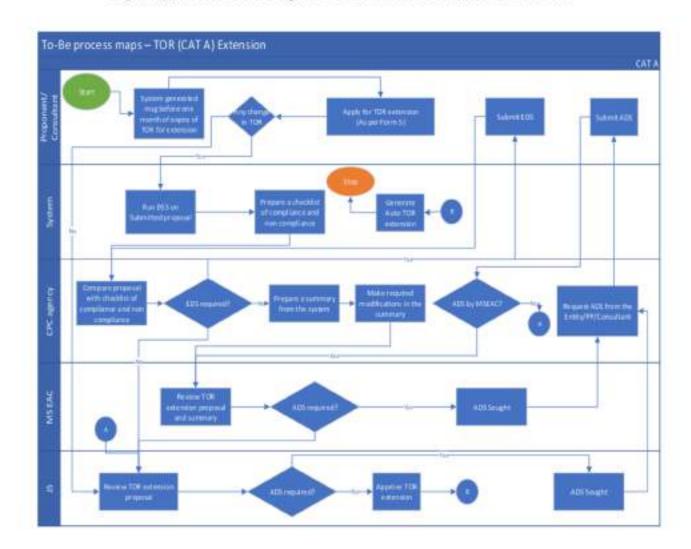
Detailed Project Report: CPC- Green

5.2.2 To-Be Process for TOR Extension

5.2.2.1 Process Flow Diagram: To-Be TOR Extension Process

The process is as mentioned below:

Figure 34: Process Flow Diagram - To-Be Process TOR (CATA) Extension

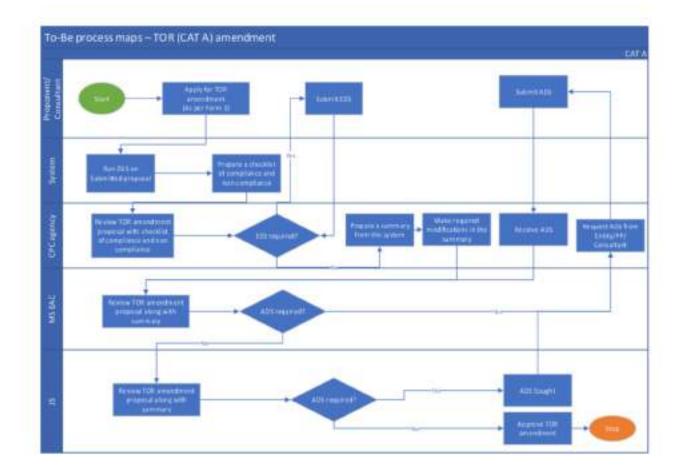


Detailed Project Report: CPC- Green

5.2.3 To-Be Process for TOR Modification

5.2.3.1 Process Flow Diagram: To-Be TOR Modification Process

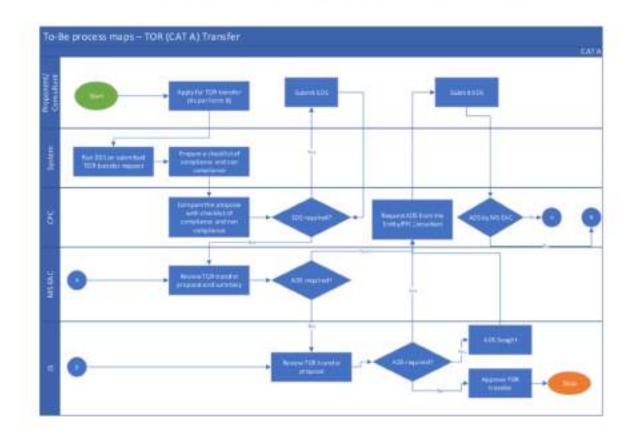
Figure 35: Process Flow Diagram - To-Be TOR (CAT A) Amendment



5.2.4 To-Be Process for TOR Transfer

5.2.4.1 Process Flow Diagram: To-Be Process for TOR Transfer

Figure 36: Process Flow Diagram - To-Be TOR (CATA) Transfer



5.3 To-Be Process for Environment Clearance

5.3.1 To-Be EC Application

5.3.1.1 Process Description: To-Be EC Application Process

- Consultant will perform baseline study on less than 3-year-old data.
- Consultant will prepare the draft EIA/EMP report.
- 3. Consultant will login to CPC-Green application with digital signature.
- 4. Consultant will submit Online EIA/EMP report.
- The EIA report will be having a unique reference no., a unique reference no from form 1 and TOR.
- Pre-filled data from form 1 will be displayed on the screen by the system.

- Consultant will be having the option to change the data filled in Form 1, however the colour of the changed field will turn red.
- 8. It will be having two sections namely A and B, in which Section A will be having measurable conditions and Section B should be having qualitative conditions. System should be having option to capture conditions of section a in there measuring units and Conditions in Section B should be measured in terms of percentage.
- Project proponent will approve the EIA report filled by the consultant.
- 10. In case project proponent reject the proposal submitted by the consultant. The proposal gets displayed back in the login of the consultant for amendment.
- Post approval of the proposal, SPCB HQ will examine the project proposal study report.
- SPCB HQ will take DM appointment for public hearing within 30 days of proposal submission.
- SPCB HQ will publish project proposal in at least 2 newspapers within 15 days of proposal submission.
- 14. Public hearing will be conducted by DM but not less than Dy. DM with the public/ representatives of the effected people.
- 15. The template for MoM will be having four sections. Section A will be having the relevant statistics, Section B will be having the recommendations, Section C would contain condition from catalogue, section D will be for any other recommendation.
- Head office SPCB? Will submit the report to MoEFCC with a copy to Project proponent in the system.
- Consultant fill form 2 in the system. Form 2 will be having Reference form Form 1,
 TOR and an EIA no.
- Project proponent will approve the Form 2 for submission to MoEFCC.
- CPC will examine the proposal.
- 20. CPC will seek essential document if required else prepare agenda for the EAC meeting.
- CPC will inform project proponent/consultant for the EAC meeting.
- EAC gets system generated project summary.
- Project is apprised to EAC.
- System generate the MoM for held EAC meeting.
- 25. The MoM will be divided into 5 sections. Section A will be having the relevant statistics, Section B will be discussion happened in EAC meeting.
- 26. If required, EAC sough additional documents else recommend the project.

- 27. MS EAC review the proposal and EAC recommendation and if required sough additional documents else recommend the project.
- 28. JS reviews the proposal and if required, sough additional documents else recommend the project.
- 29. AS reviews the proposal and if required, sough additional documents else recommend the project.
- 30. Secretary reviews the proposal and if required, sough additional documents else recommend the project.
- Minister reviews the proposal and if required, sough additional documents else approve the project.
- 32. All the correspondence to project proponent/Consultant would be done by the CPC and that too from the system.
- 33. Response of EDS/ADS would be received through the system by the CPC.
- 34. CPC will examine and put up the response received for approval through the system.

Detailed Project Report: CPC- Green

5.3.1.2 Process Flow Diagram : To-Be EC Approval Process

Figure 37: Process Flow Diagram - To-Be EC (CAT A) approval (Part-1)

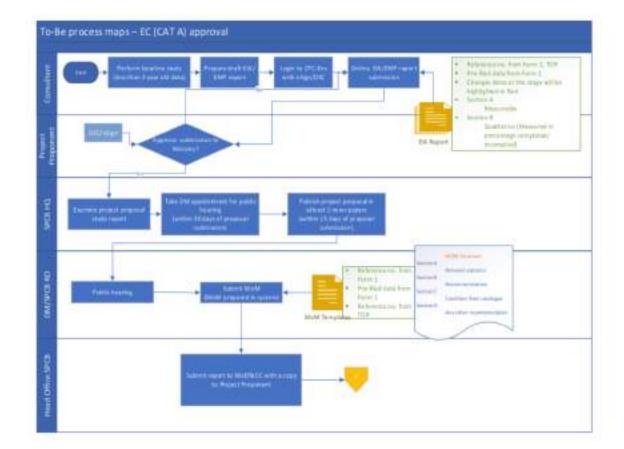
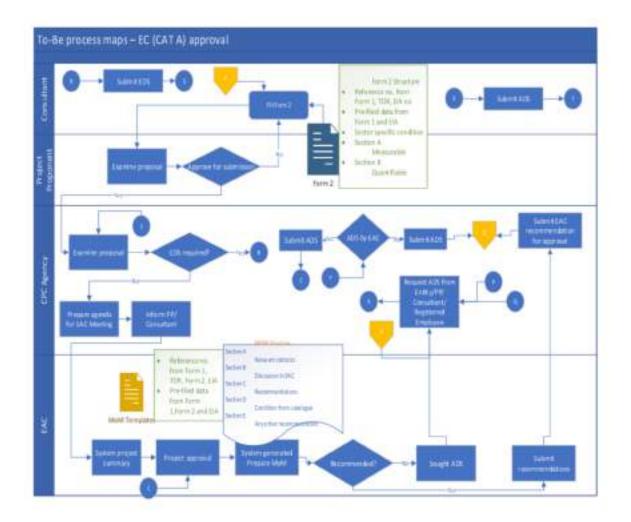


Figure 38: Process Flow Diagram - To-Be EC (CAT A) approval (Part-2)



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To-Be-process maps — EC (CAT A) approval

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Figure 39: Process Flow Diagram - To-Be EC (CATA) approval (Part-

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5.3.1.3 Changes Proposed: To-Be EC Approval Process

Table 13: Changes Proposed EC (CAT A) approval

Change	Details	Benefits
Form Rationalization	Capture once principal is To-Be applied and the information Captured in EIA report should be utilized in Form 2. In case if any value gets changed in between user may be given with the option to change the information. However, the changed information should be highlighted in red colour and subsequently the newly entered values should be taken into consideration by the system.	Elimination of duplicate and erroneous entries Reduce effort for validation of same information at multiple points
Online EIA report submission by consultant	EIA report module To-Be created Link Form 2 and EIA report	Reduce effort of verifying EIA reports Accountability of consultants
Non-repudiation	Digital signature, eSign implementation	Faster process Enhance accountability
EC - generated only through system	Standard form for EC & TOR generated from System only	Correct MIS to share with other bodies like Courts/NGI
Unique number for EIA/EMP report, Form 2 and EC certificate. These numbers To-Be linked with past documents like Form 1 and TOR	Unique id for EC To-Be followed throughout the life of EC Combination of Year, Sector, file no, TOR no	Tracking of EC for its entire life cycle Complaints would be registered against the EC no.

Change	Details	Benefits
and will be used for future communications with the Project Proponents in Compliances etc		
Standardization of MoM templates	Separate MoM for each PP meeting Template for each sector Segregation of Standard and Specific condition Specific condition's pollutant parameters To-Be taken form EIA/EMP submitted report Option to customize the pollutant parameters in the conditions	Time reduction in MoM finalization and thus in EC
Inclusion of public hearing in system	Option to create and approve MoM by the SPCB RO or DM Login id for SPCB RO and DMs with eSign/DSC Sector specific Templates for creating MoMs	Time reduction in filling EC application and thus EC approval

Detailed Project Report: CPC- Green

5.3.2 To-Be Process for EC Extension

5.3.2.1 Process Flow Diagram: To-Be EC Extension Process

The process for EC Extension is as follows:

Figure 40: Process Flow Diagram - To-Be EC (CATA) Extension (Part-1)

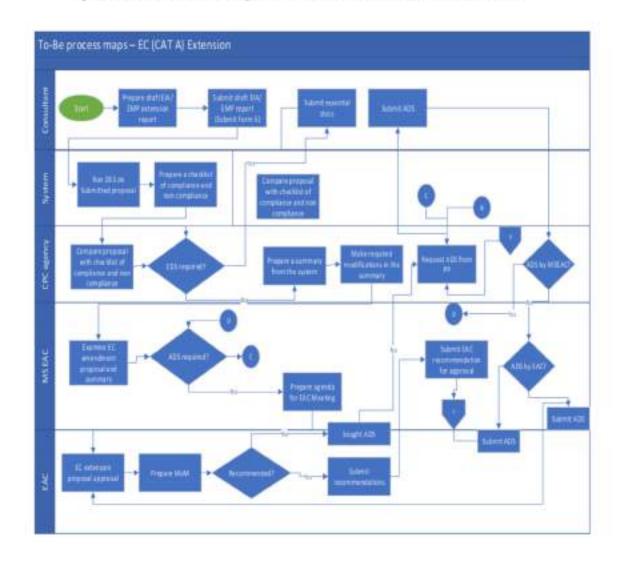
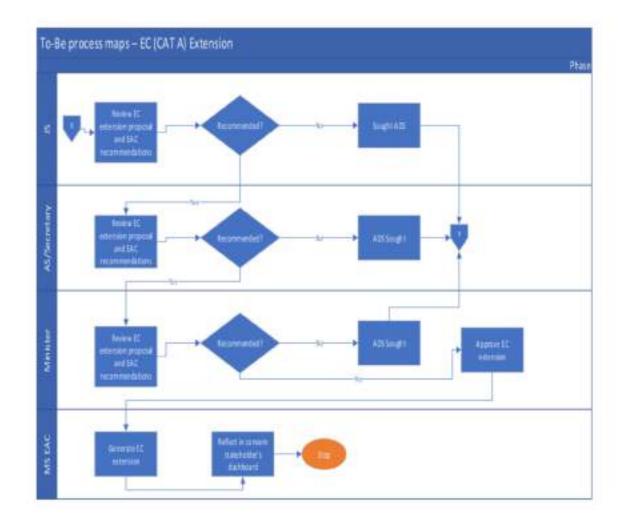


Figure 41: Process Flow Diagram - To-Be EC (CATA) Extension (Part-2)



Detailed Project Report: CPC- Green

5.3.3 To-Be Process for EC Modification

5.3.3.1 Process Flow Diagram: To-Be EC Modification Process

Figure 42: Process Flow Diagram To-Be EC (CAT A) amendments (Part-1)

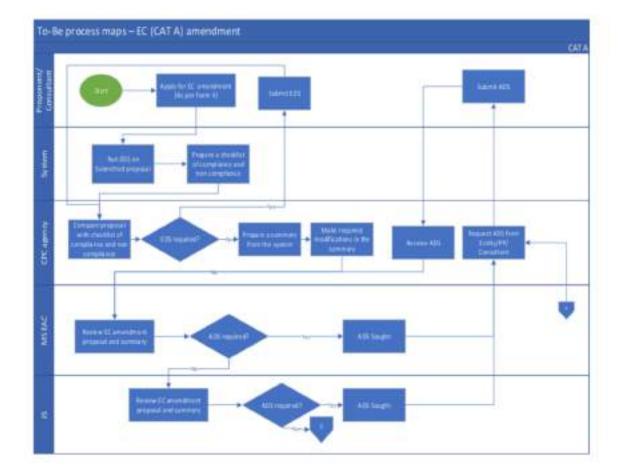
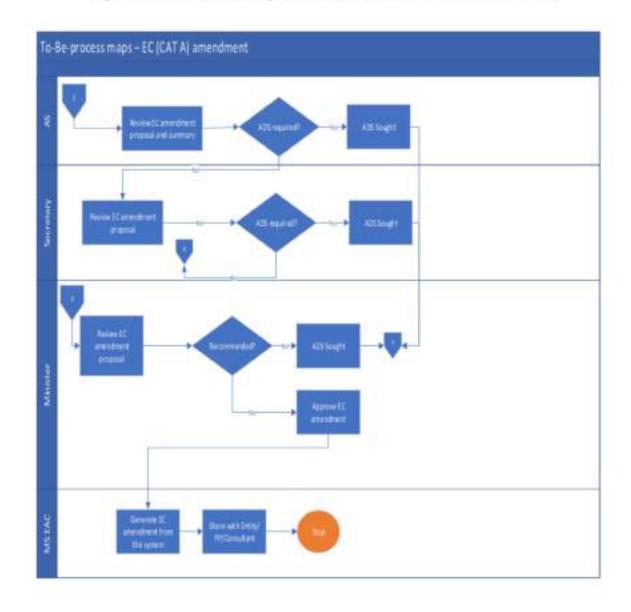


Figure 43: Process Flow Diagram To-Be EC (CATA) amendments (Part-2)



Detailed Project Report: CPC- Green

5.3.4 To-Be Process for EC Transfer

5.3.4.1 Process Flow Diagram: To-Be EC Transfer Process

The process for EC transfer is as follows:

Figure 44: Process Flow Diagram - To-Be TOR (CATA) Transfer (Part-1)

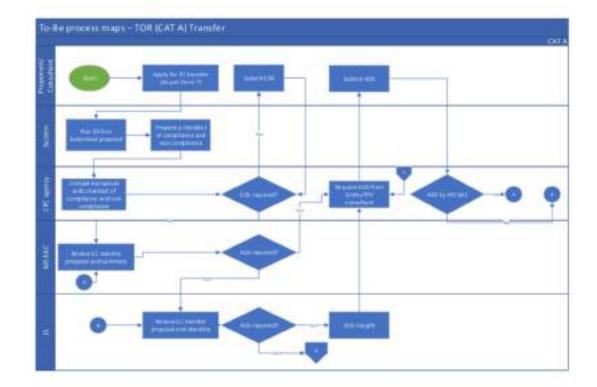
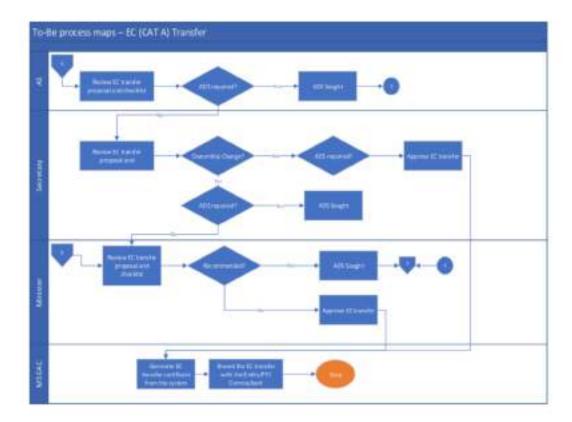


Figure 45: Process Flow Diagram - To-Be TOR (CAT A) Transfer (Part-2)



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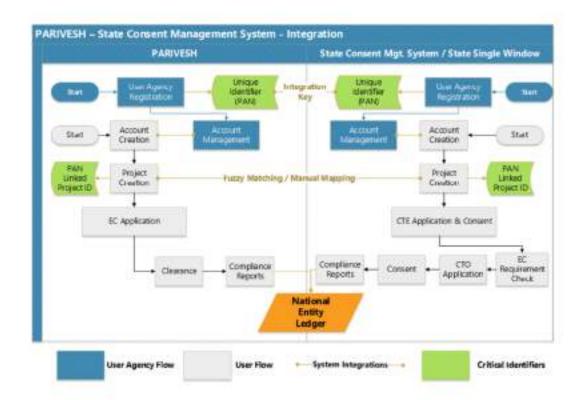
5.3.5 To-Be Process for CTE, CTO & Authorization

5.3.5.1 Process Description: To-Be CTE, CTO & Authorization Process

In the envisaged clearance system, i.e. CPC- Green, the consent management systems are To-Be integrated with the central systems of MoEFCC, to enable a holistic clearance and compliance view of all enforcements, under the purview of the air, water & environmental protection act. The integration architecture of the To-Be systems is illustrated in further sections.

5.3.5.2 Process Flow Diagram: To-Be CTE, CTO & Authorization Process

Figure 46: Process Flow Diagram -To-Be PARIVESH - State Consent Management System Integration



Detailed Project Report: CPC- Green

5.3.5.3 Changes Proposed: To-Be CTE, CTO & Authorization Process

Table 14: Changes Proposed State Consent Management System - Integration

Change	Details	Benefits
Change in registration process of applicants	Revamped registration system for state consent management applications PAN authentication of all entities	Ability to map multiple projects to a unique business entity
Selective integration of databases	Each project To-Be identified using a PAN integrated code Projects on PARIVESH & State Systems To-Be mapped using fuzzy logic (or) manual mapping	Integrated view of clearance and compliance status of all active projects of a business entity
Upgrade of OCMMS compliance module	Identification of quantitative conditions To-Be actively tracked Quantitative capturing of compliance data	Quantitative reporting of compliance figures
Environmental clearance decision support system	Industry wise rule identification for EC applicability Changes in forms to capture critical data points Incorporation of identified rules in the form of decision support system	System directed identification of EC applicability

5.3.6 To-Be Process for EC Compliance

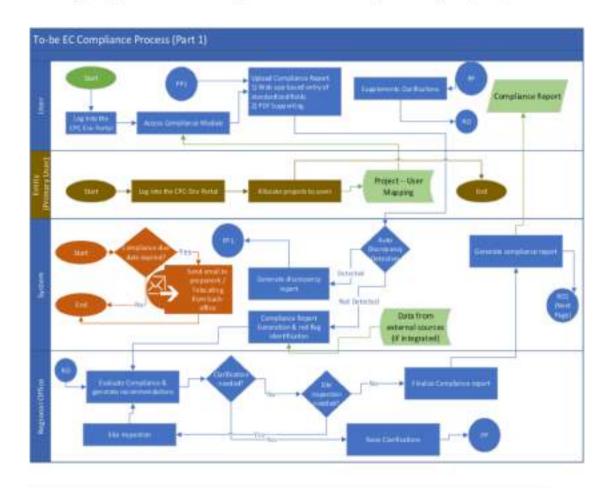
5.3.6.1 Process Description: To-Be EC Compliance Process

The EC Compliance process will be reliant on a web-application based system where a proponent can directly access the conditions established against his project. The compliance report will be exposed as an input form where the fields will either be quantitative or binary (Yes/No) depending on the type of condition. The proponent will populate the relevant fields and attach the needed supporting documents.

This structured data will be processed by an analytics module which will generate a system report (incorporating red flags) for the reference of a regional officer. The regional officer will finalize the compliance status using system generated insights and his qualitative understanding.

5.3.6.2 Process Flow Diagram: To-Be EC Compliance Process

Figure 47: Process Flow Diagram - To-Be EC Compliance Report (Part1)



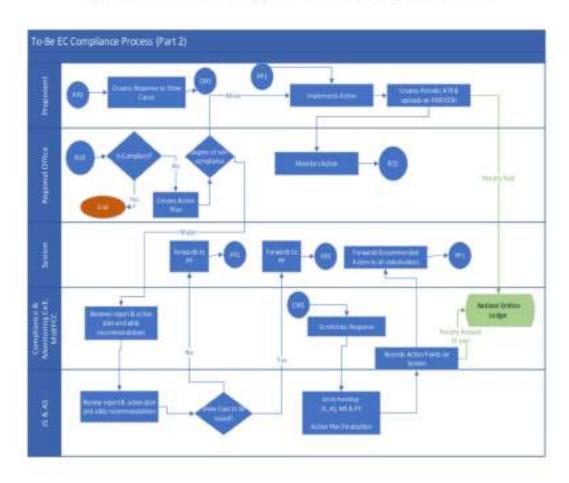


Figure 48: Process Flow Diagram - To-Be EC Compliance (Part 2)

5.3.6.3 Changes Proposed: To-Be EC Compliance Process

Table 15: Changes Proposed EC Compliance Report

Change	Details	Benefits
Web-application based compliance report submission	Clearance conditions To-Be incorporated in the system Proponent to report compliance status against each condition	Structured data capturing to enable basic analytics driven checks

Change	Details	Benefits
Upgrade of compliance module	Identification of quantitative conditions To-Be actively tracked Quantitative capturing of compliance data	Quantitative reporting of compliance figures
External validation via integration with monitoring stations	Integration of CPC - Green with monitoring stations Comparison of proponent reported figures against figures reported by monitoring stations	External validation of data submitted by project proponents
Centralized repository of action taken & penalties levied against non- compliant parties	Details of action status & penalties levied against parties To-Be recorded on a centralized system	Ministry to have complete view of action status against non-compliant parties

5.4 To-Be Process for Coastal Region Zone (CRZ) Clearance

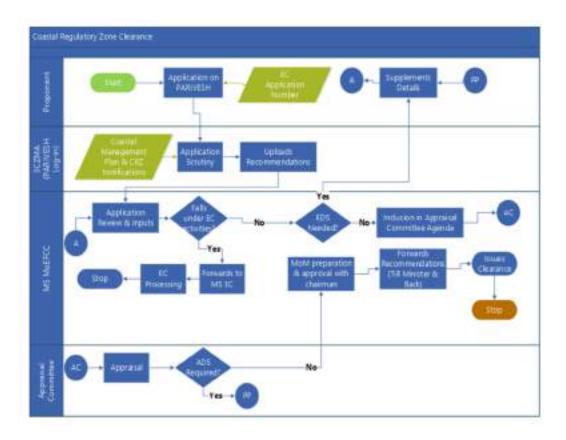
5.4.1 To-Be Process for CRZ Application

5.4.1.1 Process Description: To-Be CRZ Application

- Proponent applies for clearance at state coastal zone management authority on PARIVESH
- State coastal management authority gives preliminary approval / recommendation
- The application is forwarded to MoEFCC by SCZMA
- The application is scrutinized by a committee (EAC committee for composite clearances and independent committee for exclusive CRZ clearances)
- The committee's recommendations are documented and processed for clearance
- Clearance is issued

5.4.1.2 Process Flow Diagram: To-Be CRZ Clearance Process

Figure 49:Process Flow Diagram - To-Be CKZ Clearance



5.4.1.3 Changes Proposed: To-Be CRZ Clearance Process

Table 16: Changes Proposed CRZ Clearance

Change	Details	Benefits
SCZMA to have PARIVESH access	The approval from SCZMA also To-Be processed on PARIVESH	Proponent need not apply separately to MoEFCC The states recommendations are captured in the system

5.4.2 To-Be Process for CRZ Compliance

5.4.2.1 Process Description: To-Be CRZ Compliance

- User agency/industry allocated projects to secondary users
- System sends reminder mails to user for compliance report submission
- User uploads compliance report on web-app based portal with PDF supporting
- System runs analytics and generate preliminary compliance report
- Report is scrutinized by Regional Officer (MoEFCC) and finalized
- In case of minor non-compliance, SCZMA prepares action plan and implements with the proponent
- In case of major non-compliance, MoEFCC is looped in for action plan finalization
- Show cause notice issued, and penalties levied are recorded on system

5.4.2.2 Process Flow Diagram: To-Be CRZ Compliance Process

Figure 50: Process Flow Diagram - To-Be CRZ Compliance Process (Part 1)

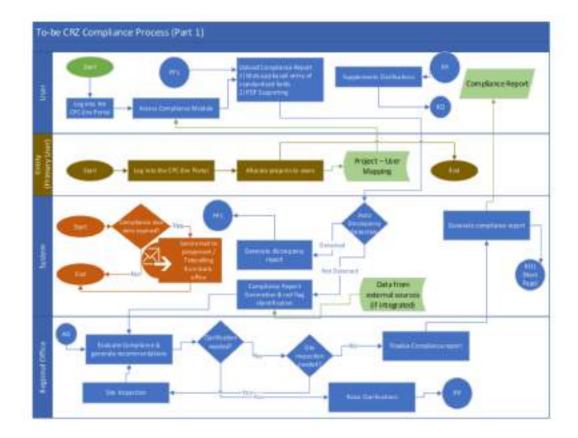
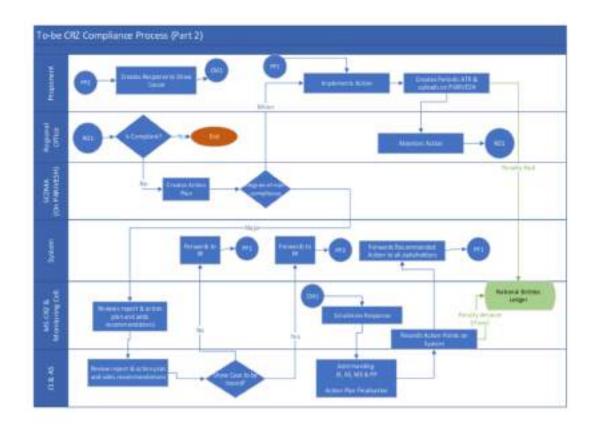


Figure 51: Process Flow Diagram - To-Be CRZ Compliance Process (Part 2)



5.4.2.3 Changes Proposed: To-Be CRZ Compliance Process

Table 17: Changes Proposed CRZ Compliance

Change	Details	Benefits
System driven checks	Implementation of basic checks by system- • Report submission • Submission of documents	Basic compliance hygiene is implemented
Upgrade of compliance module	Identification of quantitative conditions To-Be actively tracked Quantitative capturing of compliance data	Quantitative reporting of compliance figures

Recording of action plans on system	The following action points are To-Be recorded on the system- • Action finalized and taken by SCZMA • Show cause notices • ATR submitted by PP • Penalties levied by The Ministry	Comprehensive overview of action status against non-compliant parties
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5.5 To-Be Process for Consultant Management

5.5.1 To-Be Process for Consultant Registration Process

The consultants who are registered with QCI shall have to register on the system to file applications for various clearances on behalf of their Proponents. They shall be provided login credentials on the system once their registration is successful.

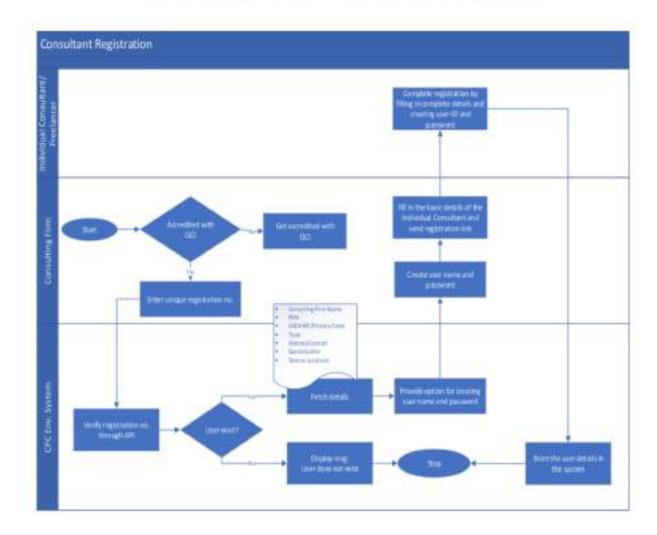
5.5.1.1 ProcessDescription: To-Be Consultant Registration

- The Consulting Firm User shall navigate to the Registration page on the system and provide their QCI registration number.
- The system shall verify the QCI registration number with the QCI system (via API) and check if the said Consulting Firm is registered with QCI or not. In case the QCI registration number is not verified an error, message will be displayed to the user asking him to first register with QCI
- If the QC1 registration number is verified, then the system shall fetch the details of the Consulting Firm and pre-fill the registration form with these details.
- The user shall fill in those data fields against which data was not available in the QCI system.
- The system shall provide an option to the user to create his user-1D and password as per the applicable user-1D and password policies.
- Upon successful registration of the Consulting Firm, the Consulting Firm User shall be able to register individual consultants working with the firm.
- 7. The Consulting Firm User shall fill in the basic details of the individual users (consultants) and send the registration link to him for completing the registration. Consulting Firm User shall be able to register multiple individual consultants in this manner.

- The individual consultant shall fill in his complete details and create his user-ID and password
- The consulting entity can add the users and authorize the consultant for filing ToR, EC application and filing EC Compliance Report

5.5.1.2 ProcessFlow Diagram: To-Be Consultant Registration Process

Figure 52: Process Flow Diagram - To-Be Consultant Registration



5.5.2 To-Be Process for Renewal for Consultants

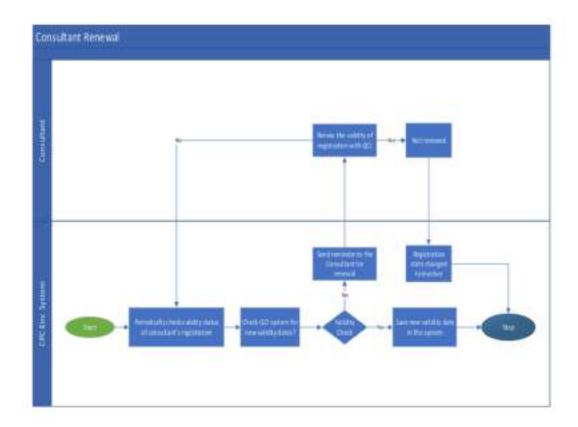
Post registration, the system should ensure that only those consultants can work on the projects whose registration with QCI is valid

5.5.2.1 Process Description: To-Be Consultant Renewal Process

- The system shall periodically check the validity date of consultant's registration with QCI.
- If the validity date is about to expire in a defined time frame, then the system shall start sending periodic alerts to consultant asking him to renew his registration with QCI. The said time frame and periodicity of alerts shall be configurable in the system and can be configured by the system admin as and when required.
- During the periodic check with QCl system, if the system notices that the validity date has been extended, it shall update its record and stop sending alerts to the consultant
- If the validity date has expired, then the system shall change the State of that
 consultant as "Inactive", which shall be activated again once the registration is
 renewed.

5.5.2.2 Process Flow Diagram: To-Be Consultant Renewal Process

Figure 53: Process Flow Diagram – To-Be Consultant Renewal



5.5.3 To-Be Process: Tagging & De-tagging to project

The Project Proponent should be able to tag a Consulting Firm to its project. Also, it should be allowed to de-tag the Consulting Firm from its project and tag a new Consulting Firm to the project.

Further, the Consulting Firm should also be able to tag and de-tag any individual consultant from the project the Consulting Firm is working upon.

5.5.3.1 Process Description: To-Be Consultant Tagging/De-Tagging Process

- The Project Proponent shall login to the system and search for a registered Consulting Firm by entering the required criteria (Name, Reg. Number)
- The system shall display the list of Consulting Firms registered with the system.

- The Project Proponent shall select the preferred Consulting Firm from the list and tag to the Project.
- An alert will be displayed on the Consulting Firm's dashboard about its tagging to a project by the Proponent.
- The Consulting Firm shall either accept or reject the tagging (work order). In case of rejection the Proponent will be notified and advised to search and tag another Consulting Firm.
- In case the Consulting Firm accepts the tagging (work order), it shall be displayed a list of Individual Consultants registered with the system.
- It shall select the Individual Consultant(s) to work on the project and assign the project to them. Th Individual Consultant(s) shall be notified by the system.
- The system shall notify the proponent and update the record in the system.
- For de-tagging the Consulting Firm, the Proponent will log in to the system and shall select the project from which the Consulting Firm is To-Be de-tagged.
- The proponent shall then de-tag the Consulting Firm. The system shall notify the Consulting Firm accordingly.
- For de-tagging any Individual Consultant by the Consulting Firm, it will log in to the system and shall select the project from which the Individual Consultant is To-Be de-tagged.
- The Consulting Firm shall then de-tag the Individual Consultant. The system shall notify the Individual Consultant accordingly.

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5.5.3.2 Process Flow Diagram: To-Be Consultant Tagging/De-Tagging Process



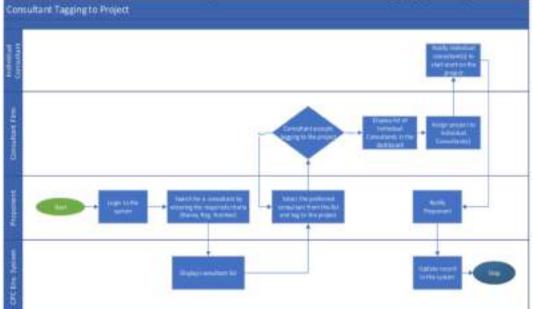


Figure 55:Process Flow Diagram Consultant Firm De tagging/replacement to project by proponent (Part-1)

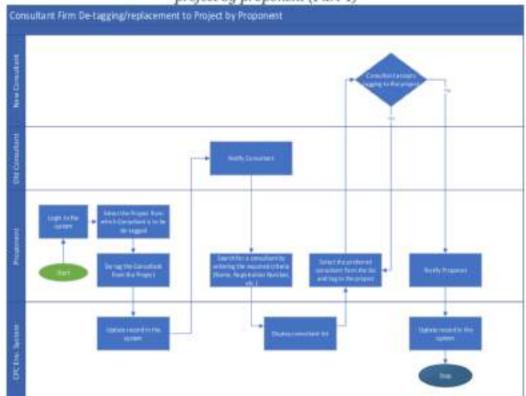
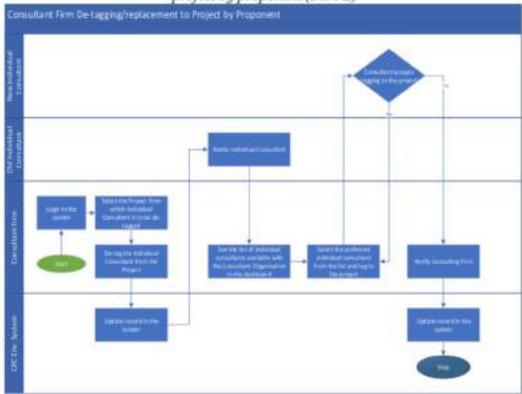


Figure 56: Process Flow Diagram Consultant Firm De tagging/replacement to project by proponent (Part-2)



5.5.4 To-Be Process for Consultant Performance Rating

The system should allow Project Proponents and MoEFCC users to provide performance rating to Consulting Firms. This shall enable the Project Proponents, especially the new ones, to select a Consulting Firm based upon his performance ratings. It shall also help to keep the system clean of low-quality Consulting Firms. The ratings for the Consulting Firms shall be visible in the dashboards of Project Proponents, MoEFCC users and the Consultants.

Detailed Project Report: CPC- Green

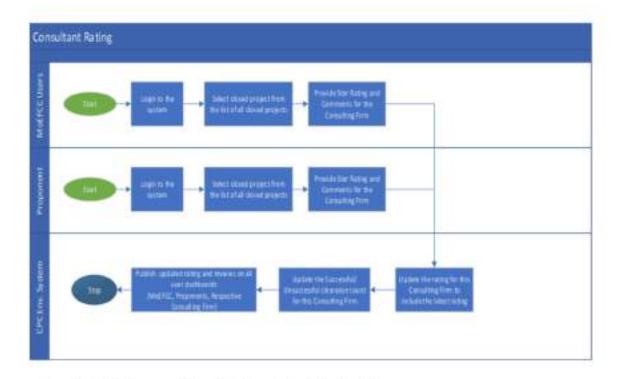
5.5.4.1 Process Description: To-Be Consultant Performance Rating Process

The Project Proponent shall login to the system and select any closed project from the list of all his closed projects.

- He shall then provide a performance rating (Star rating) on a scale of 1 to 5, with 5 being the best and 1 being the poorest, to the Consulting Firm of the selected project.
- Similarly, the MoEFCC user shall login to the system and select any closed project from the list of all the closed projects.
- He shall also, then provide a performance rating (Star rating) on a scale of 1 to 5, with 5 being the best and 1 being the poorest, to the Consulting Firm of the selected project.
- The system shall then update the rating for this Consulting Firm to incorporate the latest rating.
- The system shall also maintain a record of the successful/unsuccessful clearances of the projects handled by this Consulting Firm.
- The performance rating and the successful/unsuccessful clearances of the projects handled by all the Consulting Firms shall be published on all user dashboards.
- A feature to add text reviews along with the Start ratings may also be incorporated at a later stage if required by the Department

5.5.4.2 Process Flow Diagram - To-Be Consultant Performance Rating Process

Figure 57: Process Flow Diagram - To-Be Consultant Performance



5.6 To-Be Process for Registration for Auditor

5.6.1 To-Be Auditor Registration Process

The auditors To-Be engaged by MoEFCC should be allowed to register and login in the system. They shall be provided login credentials on the system once their registration is successful.

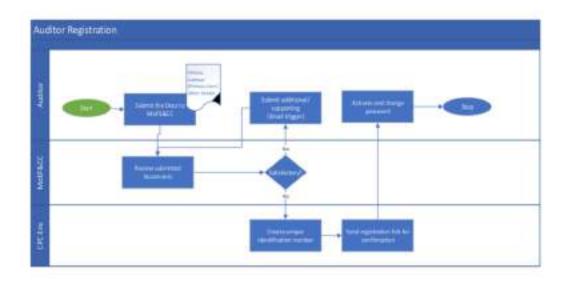
5.6.1.1 Process Description: To-Be Auditor Registration Process

- The Audit Firm User shall navigate to the Registration page on the system, fill in the registration form and upload their required documents.
- Competent person from MoEFCC shall verify the documents and call for any additional documents, clarifications etc.
- The Audit Firm shall submit the additional documents as required.
- If satisfactory, then the competent person from MoEFCC shall approve the audit form's registration.

- The system shall create a unique ID number for the audit firm and send a link to the audit form for creation of user id and password.
- The audit firm shall create the user id and password and the record shall be updated in the system.

5.6.1.2 Process Flow Diagram: To-Be Auditor Registration Process

Figure 58: Process Flow Diagram - To-Be Auditor Registration



5.6.2 To-Be Auditor Allocation to Project

MoEFCC audit in charge should be able to allocate a project to an Audit Firm for conducting the audit.

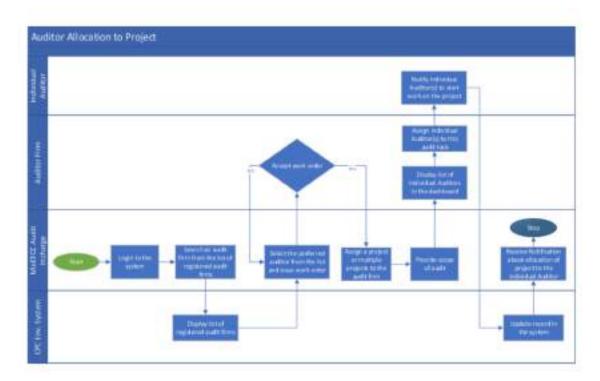
5.6.2.1 Process Description: To-Be Auditor Allocation to Project

- The MoEFCC audit in charge shall login to the system and search for a registered Audit Firm by entering the required criteria (Name, Reg. Number)
- The system shall display the list of Audit Firms registered with the system.
- The MoEFCC audit in charge shall select the preferred Audit Firm from the list and allocate the Project for auditing.
- An alert will be displayed on the Audit Firm's dashboard about its allocation to a project.
- The Audit Firm shall either accept or reject the allocation (work order). In case of rejection the MoEFCC audit in charge will be notified and advised to search and tag another Audit Firm.

- The MoEFCC audit in charge shall allocate one or more projects to the said audit firm and provide the scope of audit.
- In case the Audit Firm accepts the tagging (work order), it shall be displayed a list of Individual Auditors registered with the system.
- It shall select the Individual Auditor(s) to audit the project and assign the project to them. Th Individual Auditor(s) shall be notified by the system.
- The system shall notify all the parties and update the record in the system.

5.6.2.2 Process Flow Diagram: To-Be Auditor Allocation to Project





5.6.3 To-Be process for Audit Task

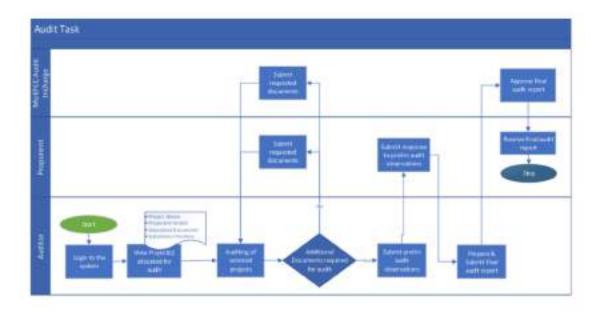
The Auditor should be able to audit and submit the audit findings for a project to MoEFCC.

5.6.3.1 Process Description: To-Be Audit Task Process

- The auditor shall login to the system and view the allocated projects for audit.
- He shall view the documents available in the system for conducting the audit and shall start the audit of the project(s).
- In case if any additional documents are required, he shall submit a request for the said requirements in the system for the concerned party (Proponent or the Consulting Firm).
- 4. The concerned party(s) shall submit the additional documents as required.
- The auditor shall submit the preliminary audit findings and ask for response on it.
- The proponent shall submit his response on it along with any supporting artefacts (if any).
- Auditor shall prepare and submit the final audit report
- 8. MoEFCC audit in charge shall review and approve the final audit report.
- The proponent shall receive the final audit report.

5.6.3.2 Process Flow Diagram: To-Be Audit Task Process

Figure 60: Process Flow Diagram - To-Be Audit Task



5.6.4 To-Be Process for Legal Knowledge Management

The system shall have a repository where the relevant Acts, Directives, Court Orders, Judgements etc. can be uploaded along with metadata tags for easy search and reference. This search and view function shall be available to all stakeholders and to general public as well. In addition, the MoEFCC users should be able to insert reference to the relevant content in their NIC e office noting, wherever required.

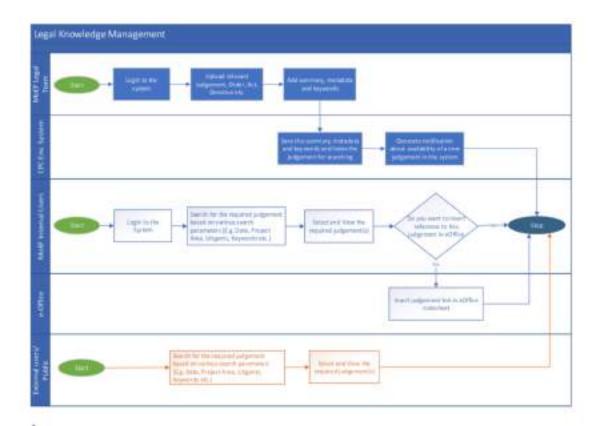
5.6.4.1 Process Description: To-Be Process for Legal Knowledge Management

- MoEFCC legal team user shall login to the system and upload the relevant Acts, Directives, Court Orders, and Judgments etc.
- 2. He shall then add a summary, metadata tags and keywords.
- The system shall then save the summary, metadata and keywords and index the uploaded content for searching.
- The system shall then display a notification regarding the new content on the legal knowledge management screen and any other screen as decided.

- The MoEFCC internal users shall login to the system and search for the relevant content. The system shall then display the content as per the search criteria entered.
- 6. The MoEFCC internal users shall then select and view the relevant content. He shall be able to generate a link which can be copied and inserted in the NIC e office noting. He shall then login to NIC e office and insert the link in the required noting.
- The general public can directly search for the relevant content. The system shall then display the content as per the search criteria entered.
- 8. The public user shall then select and view the relevant content.

5.6.4.2 Process Flow Diagram: To-Be Process for Legal Knowledge Management

Figure 61: Process Flow Diagram - To-Be Legal Knowledge Management



5.7 To-Be Process for Forest Clearance (FC)

5.7.1 To-Be Process for FC Application

Considering the end to end automation of FC processes, the FC process shall be defined as more modular, in consultation with states. The FC module will implement the end to end automated process. At high level, the following shall be the FC process -

5.7.1.1 Process Description: To-Be FC Application Process

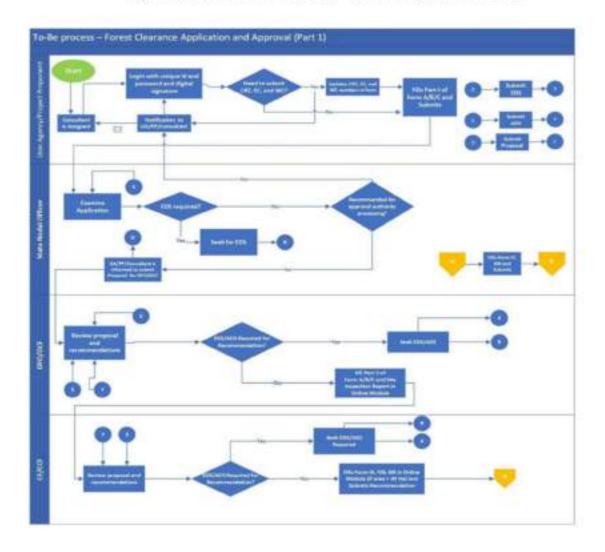
- The User Agency/ Project Proponent (UA/PP) applies for FC using unified application form. UA/PP/Consultant may select and authorize a consultant to perform the processing of application. The UA/PP/Consultant logs in with login credentials and DSC
- The UA/PP/Consultant is notified by the system, whether EC, CZR clearance and WC is needed. The UA/PP/Consultant accordingly updates the number of other clearances and system fetches already available information of UA/PP pertaining to the EC/WC/CRZ
- UA/PP/Consultant submits the part-1 of application for FC form online. The form would capture detail in would be captured in qualitative and quantitative fields
- The Nodal Officer, in CPC-Green receives the application and verify the information provided. The Nodal Officer through CPC-Green coordinates with UA for EDS, if required
- The Nodal officer upon receiving the application, raises EDS/ADS to UA for submission of proposal for the DFO/DCF
- 6. The UA/PP/Consultant submits soft copy (acknowledgement letter) of proposal online and fills required details in an online module to capture qualitative/quantitative details of proposal for DFO/DCF level, after this State Nodal officer Accepts the application at forward it to concerned DFOs.
- The DFO/DCF reviews the proposal and online application. He/she asks for EDS/ADS accordingly if needed – the UA/PP/Consultant receives a notification for the same
- The DFO/DCF fills Part II of form and fills a Site Application Report (SIR) in online module. The SIR would be captured in qualitative and quantitative KPIbased fields in the online module, after SIR DFO submit their recommendations and forward proposal to CCF/CF

- In further processing, CCF/CF reviews the application received from DFO/DCF, seeks EDS/ADS if required, and fills form in online module for part-III and updates details for SIR(optional) in an online module (like step-8), CCF/CF submit their Recommendations and Forward proposal to State Nodal Officer.
- 10. Nodal officer receives the form from CCF/CF in CPC-Green, seeks EDS/ADS if required, and fills other required details in form IV in online module accordingly. He/she Recommends it to State Secretary level
- Once submitted, it goes to State Level Secretary at this level certain proposals
 can be approved for clearance after review.
- 12. If approval/clearance is not in the purview of State Secretary level, it is forwarded in the CPC-Green to IRO or MoEFCC level, after required review and recommendation, and filling of form-V in online module
- 13. If application is received at IRO for reviews, IRO seeks EDS/ADS if required else IRO also assign File No., add MoM and Regional Empowered Committee details of proposal (IRO may ask for decision of ROHQ if proposal belongs to Mining, Hydel, encroachment or Quarrying category), uploads Note sheet for Stage 1 and Grants Stage I clearance.
- 14. If application is received at MoEFCC for reviews, MoEFCC seeks EDS/ADS if required else MoEFCC seeks SIR from IRO in case of Proposal having area>100 ha. After this or elsewise assign File No., add MoM and Forest Advisory Committee details of proposal, uploads Note sheet for Stage 1 and Grants Stage 1 clearance.

Detailed Project Report: CPC- Green

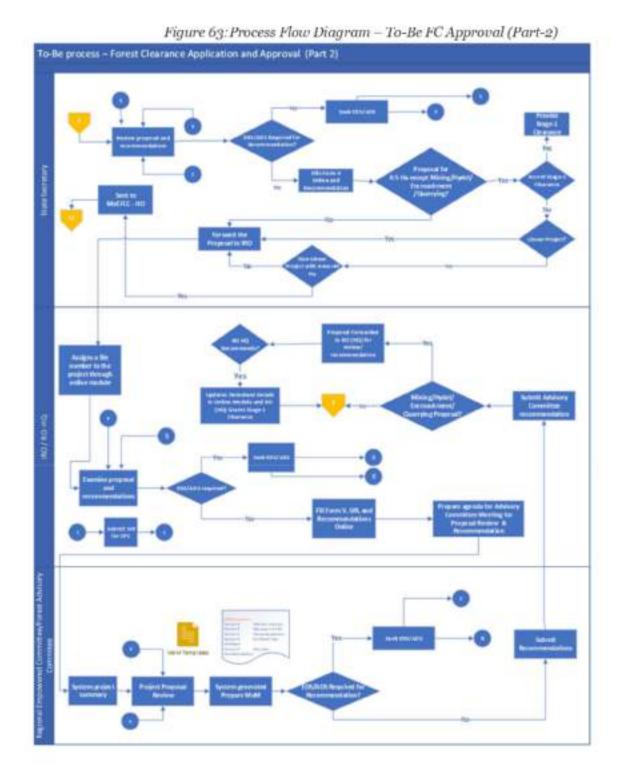
5.7.1.2 Process Flow Diagram: To-Be Process for FC Application and Approval (Part-1)

Figure 62: Process Flow Diagram - To-Be FC Approval (Part-1)



Detailed Project Report: CPC- Green

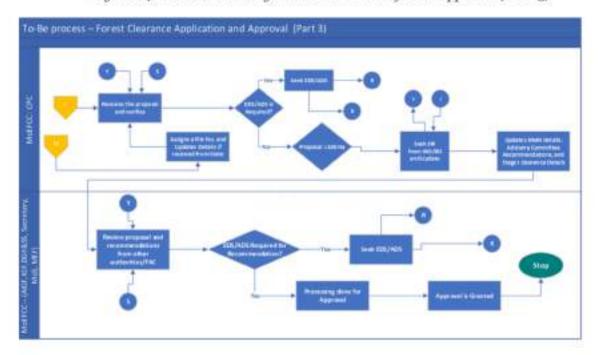
5.7.1.3 Process Flow Diagram: To-Be Process for FC Approval (Part-2)



Detailed Project Report: CPC- Green

5.7.1.4 Process Flow Diagram: To-Be Process for FC Approval (Part-3)

Figure 64: Process Flow Diagram: To-Be Process for FC Approval (Part-3)



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5.8 To-Be Process for WL Clearance

5.8.1 To-Be Process for WLC Application

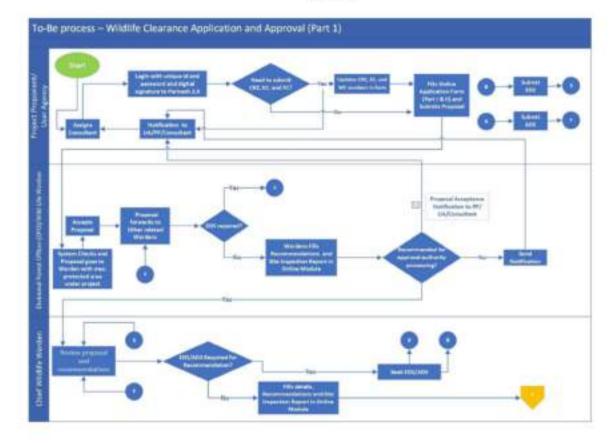
Considering the end to end automation of WLC processes, that needs To-Be defined as more modular, in consultation with states. The Wildlife module will implement the end to end automated process. At high level, the following shall be the WC process.

- The User Agency/ Project Proponent (UA/PP) applies for WLC using unified application form. UA/PP/Consultant may select and authorize a consultant to perform the processing of application. The UA/PP/Consultant logs in with login credentials and DSC
- The UA/PP/Consultant is notified by the system, whether EC, CZR clearance and WC is needed. The UA/PP/Consultant accordingly updates the number of other clearances and system fetches already available information of UA/PP pertaining to the EC/WC/CRZ
- 3. UA/PP/Consultant submits Part-1 & II of online WLC application
- UA submits soft copy of the proposal to Wildlife Warden with details filled in online form.
- Wildlife Warden (with maximum extent of protected area of project) reviews the application and seek essential / additional details if required and UA/PP receives notifications accordingly.
- 6. UA submits essential / additional details
- 7. Wildlife Warden (with maximum extent of protected area of project) accepts the application and forward to all Wildlife wardens to fills recommendations for the application in an online module, and on a pre-defined online form fills Site Inspection Report (SIR). the recommendations are captured in qualitative and quantitative level. The application moves to Chief Wildlife Warden.
- Chief Wildlife Warden fills the recommendations in the online module the recommendations are captured in qualitative and quantitative level. The application moves to State Secretary level
- State Secretary level reviews the proposal and seeks additional details if required.
- State Board of Wildlife advisory body then receives a project summary online and gives provides advisory recommendation.

- State Secretary considers the recommendation of SBWL and then the recommendation of his/her is added through an online module - the recommendations are captured in qualitative and quantitative level.
- 12. The SBWL Advisory Meeting's MoM also gets updated in the portal. State Secretary then forwards the proposal to NBWL
- 13. NBWL reviews the proposal, prepares agenda in online module and performs advisory level meeting.
- 14. Post Advisory committee meeting, system generates MoM in pre-defined template in online module to capture details in qualitative and quantitative level. The recommendations from NBWL gets submitted.
- Approval letter (soft copy) for Wildlife Clearance is uploaded at State Government.
- 16. The recommendations from NBWL gets submitted and moves to Ministry Level. The CPC at ministry level, processes the application and the application is moved to various competent authority level accordingly for approval
- All the correspondence to project proponent/Consultant would be done by the CPC and that too from the system.
- 18. Response of EDS/ADS would be received through the system by the CPC.
- CPC will examine and put up the response received for approval through the system for approval of competent authority.
- 20. Secretary reviews the proposal and if required, sough additional documents else recommend the project.
- Minister reviews the proposal and if required, sough additional documents else approve the project.
- 22. The CPC updates the approval details accordingly in the system. All the correspondence to project proponent/Consultant would be done by the CPC and that too from the system.

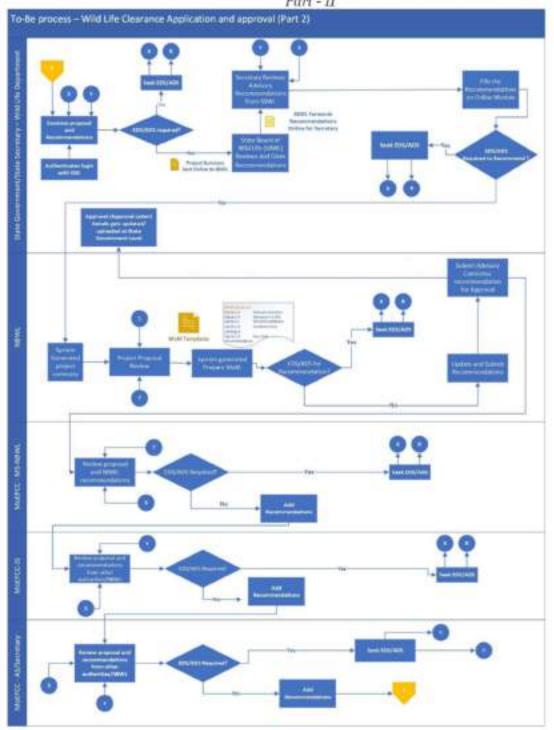
5.8.1.1 Process Flow Diagram: To-Be Process for WLC Application and Approval -I

Figure 66: Process Flow Diagram: To-Be Process for WLC Application & Approval -Part - I



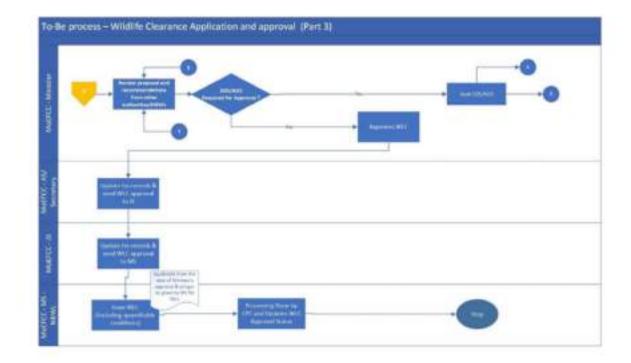
5.8.1.2 Process Flow Diagram: To-Be Process for WLC Application and Approval -II

Figure 67: Process Flow Diagram: To-Be Process for WLC Application & Approval -Part - II



5.8.1.3 Process Flow Diagram: To-Be Process for WLC Application and Approval -III

Figure 68: Process Flow Diagram: To-Be Process for WLC Application & Approval -Part - III



5.9 To-Be Central Processing Centre (CPC)

5.9.1 Concept and work allocation (To-Be)

In order to faster the processes and save the valuable time of the MOEFCC officers form being engaged in activities like assisting Consultants in using the portal and making them aware about the Ministry guidelines and policy decisions, it is viable to outsource such task to Central Processing Centre (CPC). CPC would work as per defined scope adhering to the SLAs. The broad scope of work for the CPC could be as follows but not limited to:

- 1. TOR proposal examination
- 2. EC/FC/CRZ/WL/ Import & Export of Hazardous Material/ Exotic Live Species
- MIS preparation
 - 3.1. Helpdesk management
- 4. Scheduling of EAC meetings
- Online MoM preparation on the day EAC/FAC meeting
- 6. Various follow-up with the Project Proponent and Consultants

The CPC would act as Backoffice and would be assist Ministry in redirecting the issues of Project Proponents. They will identify the issues related to policy matters and technical matters and will redirect them to the concern authority (Ministry officials and Application Development team). Team would provide L1 level support and would escalate the issue if appropriate.

5.9.2 Manpower Sizing (To-Be)

A detailed study of the workload has been conducted in this regard. Various form (1-8) prepared by the Ministry are studied. The time taken in every activity is studied from PARIVESH system and, MS EAC were consulted. Post these studies this is concluded that following manpower would be needed in the CPC.

Table 18: Mannower Structure in CPC

S. No.	CPC	Position	Duration (Months)
1	Senior Manager	1	54
2	Sr EIA Expert	2	54

CPC	Position	Duration (Months)
Junior EIA Experts	2	54
Forest and Wildlife Experts	2	54
Researchers	2	54
	Junior EIA Experts Forest and Wildlife Experts	Junior EIA Experts 2 Forest and Wildlife Experts 2

The job roles for each resource would be as mentioned here but not limited to:

- The Sr. manager will be responsible for overall coordination of the team and will
 act as bridge for communication between team and the CPC lead from Ministry
 side. S/He would guide them and responsible for work allocation for optimal
 utilization of team as per the requirement.
- 2. Jr. EIA expert will be the first point of contact for the project proponent/consultants. They will be facilitating various coordination between project proponent/consultant and ministry. This will first try to resolve the issues faced by the project proponent/consultant in using the CPC-System or any policy and procedure related matters.
- Sr. EIA expert will respond to the calls getting routed through the helpdesk as part
 of escalations related to EIA notifications, issues related to policy and procedures
 of the Ministry for Granting TOR and EC.
- On a similar lines, Forest and Wildlife Experts would provide support in expediting forest and wildlife clearances.
- Researchers will facilitate the evaluation of EIA/EMP reports submitted by the project proponent/consultant through the CPC-Green system. They will be responsible for coordinating EAC committee meetings. Preparation of MoM. summarizing the EIA/EMP reports.

6. Proposed ICT Platform

CPC is a major step towards facilitating ease of doing business with effective environment monitoring and compliance, in terms of efficient clearance processing and effective compliances across all sectors and business activities, by the MoEFCC in a transparent manner. However, considering the regulatory changes, judicial interventions and technological advancements that have been taking place in the environment governance related ecosystem, the business needs of MoEFCC and its stakeholders has considerably increased.

The IT Vision of MoEFCC is to build an 'Information Technology System' with robust and secure IT Infrastructure which is flexible in meeting objectives of CPC. The Solution should improve efficiency, consistency and effectiveness of various process and services and should also reduce turnaround time and to meet the demands of the stakeholders.

It should also enhance transparency and accountability. The ICT based platform should enable People, Process and System to integrate with each other for real time updates and provide actionable reports and analytics with a secured access. The system should be robust, secure, scalable, expandable, user friendly, mobile enabled, and should be easy to access information for all users at all levels for better information and decision making.

Following are the strategic objectives that need To-Be achieved with the To-Be solution.

- Effective and efficient environment governance The vision of MoEFCC expands to environment clearance and monitoring with the holistic view, data analytics and knowledge management. To support the efficient processing of applications for EC, FC, CRZ and WC the MoEFCC wants to set up the CPC. The validations of entity as project proponents, its nodal officers, consultants and auditors are very important for the effectiveness of overall environment governance.
- Facilitate seamless data dissemination among stakeholders The proposed solution must facilitate the seamless data dissemination among authorized stakeholders, as per their respective business needs.
- Single source of truth and giving bird's eye view The solution shall act as
 a single source of truth and gives birds eye view to respective business stakeholders,

as per their business needs. The solution shall enable the users to drill down the details as per need.

- Validation of Project Proponents The solution shall ensure that only genuine users are registering and using the system. The solution shall enable the entity and user's data To-Be verified from external systems.
- Data sharing with SPCB The solution shall enable share SPCB data and consolidate the same for giving an integrated view of environment across the country.
- Building analytical capabilities The solution shall have analytical capabilities giving deep insight in the environmental data, operational efficiency.

The proposed solution shall be hosted on the cloud. The storage capacity needs ToBe scalable. Object storage should be utilized to offer scalability which is not
possible with traditional file-based storage. With object-based storage, the
application can store and manage data volumes on the order of terabytes (TBs),
petabytes (PBs), and even greater. NIC's existing guidelines would be followed in
this case. The platform must offer standard SLA for performance monitoring. The
platform shall have Services for custom development. There will be a DR site in
compliance with MeitY guidelines. The RTO shall be less than 2 hours and RPO
shall be not more than 30 minutes. The application shall have 99% uptime.

6.1 Design Principles

Design principles are set of general rules and guidelines for facilitating reference architecture to support in defining the indicative key drivers along with functional and technological requirements to realize the vision of CPC. The principles identified for CPC solution have been discussed below:

Following are the details of the design principles.

Table 19: Design Principles

S. No.	Principle	Description
1	Clearance & Governance	Registration, validation, application processing and approvals including various aspects related to e-filing such as fields of the forms, timelines for submission / e-filing, workflow validation rules, etc.

2	Integration with other stakeholders	Integration refers to the working arrangements with other stakeholders such as state pollution boards and other data providers such as SPCB etc.
3	Leveraging Information Technology for Effective Compliance	Facilitate technological solution/platform for enabling auto surveillance of compliances and pre-emptive detection of deviations
4	Effective utilization of Projects and Environmental Data	Strengthening informed decision making on a real- time basis, easy and open access to data encourages diversity of analysis and opinion.
5	Enhanced User Experience	Enhanced user experience by providing easy navigation, a simple compliance management system, enhanced user dashboards, and other services.
6	Institutional capacity building for excellent service delivery	Appointment and on-boarding of the consultant, domain experts, ICT Development teams, backend support team, call centre services etc.

6.2 Future IT Landscape of CPC-Green.

The existing application PARIVESH was developed for ease of doing business for applying major clearances as below. PARIVESH was developed for online receiving and tracking proposals from Project Proponents for:

- 1. Environmental Clearance
- CRZ Clearance
- 3. Forest Clearance
- 4. Wildlife Clearance
- Import of Exotic Species

There are emerging business needs like efficient clearance applications processing and greater automation of compliance, registration of environment consultants and institutionalize the environment auditors and the greater use of analytics for effective

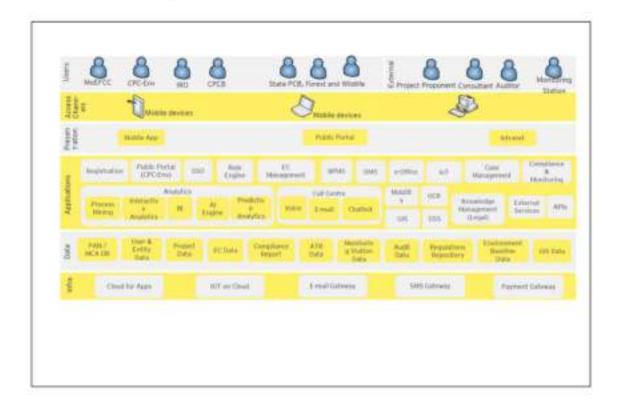
and efficient decision making. These needs will be catered by CPC-Green, supporting the relevant business operations at MoEFCC.

The efficient coordination and effective communication among all the stakeholders in the eco system is the key for the success. This will require reusability of data to ensure data consistency, mobility and delegation by key decision makers, alerts and notifications, regular follow up for tracking and closing the open issues, automation for verification of field data along with field data capturing through monitoring stations.

The efficient processing of applications requires effective validation of the information provided by the project proponent and enable the EAC in effective decision making while leveraging the technology. This will be achieved through a decision support system.

The proposed IT landscape will have various components and the integration among them must ensure that the applications are not tightly coupled and the change in one application should not affect the other applications, until there is a need to make a suitable change in those applications.

Following is the proposed future IT landscape, enabling CPC-Green to handle the relevant business processes.



6.3 Proposed IT Solution Architecture

The proposed solution shall appropriately address the following needs:

- The solution should use a Common Application Form (CAF)
- The solution should be modular
- The system should be based on respective based architectural practices for respective software components
- There shall be a separate Disaster Recovery site for storing the backup of the data
- v. The system shall be flexible for integration with new components and with external services and applications through standard API. The custom APIs can be developed in very specific cases.
- vi. The solution must have rich analytical capabilities
- vii. The solution shall enable the users with e-sign / digital signature capability

The envisaged solution shall support the entire eco system with registration, processing the EC/FC/CRZ/WL/ Import & Export of Hazardous Material/ Exotic Live Species and monitoring the compliance with EC/FC/CRZ/WL/ Import & Export of Hazardous Material/ Exotic Live Species compliance report, Auditor's report and monitoring station data. The SPCB data related to monitoring of operational entities (after granting CTO) shall be consolidated within the proposed solution and will used with GIS data for the pollutants tracking at local level. The business solution needs To-Be enabled by the technology.

6.4 Data Cleaning

The existing system PARIVESH has several data quality issues which need To-Be addressed before rolling out the target application landscape. This will require a detail planning and active involvement of business users to complete the following activities.

- Standardize the data The data for future use must be proactively standardize so
 that effective controls and validations are appropriately taken care of during design
 phase itself. For example, the following data sets shall be standardized–
 - Entity master data
 - User master data
 - iii. Consultant master data
 - Project with EC master data
 - v. Auditor master data

- vi. Monitoring station master data
- vii. Regional offices master data
- viii. TOR
- ix. ElA data
- MOM data
- xi. Condition catalogue
- xii. EC /FC/CRZ/WL Certificate
- EC/FC/CRZ/WL/ Import & Export of Hazardous Material/ Exotic Live Species Conditions
- xiv. EC /FC/CRZ/WL Compliance Reports
- xv. Audit Report
- Monitoring station tracking data
- 2. Validate the data Once data standardized then it must be used to validate the existing datasets. The validation shall be for completeness, correctness and consistency. The erroneous, incomplete or missing data elements must be identified.
- Identify duplicate data The existing data shall be analysed to identify duplicate
 data and the unique identifiers shall be added which will be further used to eliminate
 duplicate data.
- 4. Extract data Part of data is also available in unstructured form in PDF documents. Such data needs To-Be extracted and structured for future reporting and analysis. The quality of such data shall be ascertained as per following criteria.
- Analyse data quality The data shall be analysed for data quality on following parameters.
 - Data accuracy
 - Data integrity
 - Data completeness
 - Data validity
 - v. Data coverage
 - vi. No data redundancy
 - vii. Data relevance
 - viii. No duplicate data
 - ix. Data availability

- Data consistency
- Rectify the data The existing structured data and extracted data shall be rectified
 while ensuring the data quality.

6.5 Solution Landscape

The MoEFCC envisages to facilitate the Ease of Doing Business (EoDB) by efficient Environment Clearance (EC/CRZ/WLC/FC) and also to improve the environment with regular and effective monitoring and control. For this, MoEFCC envisages the solution covering entire ecosystem to cater the business needs. The envisaged solution for EC/CRZ/WLC/FC intends to cover the following stakeholders in the ecosystem.

- Project proponent
- ii. EAC / FAC
- iii. CPC-Green
- iv. Regional offices
- v. CZMA
- vi. State Forest Offices
- vii. CPCB
- viii. Auditors
- ix. Consultants
- x. Monitoring stations
- xi. SPCB

The proposed solution is to set up a CPC to facilitate the applications processing for TOR, EC/CRZ/WLC/FC and EC/CRZ/WLC/FC compliance reports. The CPC will be supported by an operations team dealing with non-decision-making operational aspects of the processes and reporting.

The IT solution for CPC-Green shall have following components.

Access Layer

The access layer will provide the role-based user access to CPC applications. These applications can be accessed with

- a. Web portal This portal will provide user access at internet to the public and intranet-based access to MoEFCC and Regional Offices.
- Mobile application This application will provide limited functionalities to all stakeholders and public, consider their respective role, need for relevant field data and mobility.

2. Applications

- Registration This application will manage the registration of entities, consultants, and users. This the authorized employees of the entity will be mapped the entity as authorized users and the consultant will be mapped for specific project for the entity.
- CPC-Green Portal This will be a web portal that will run at MoEFCC intranet and will be also be available to the public over internet. The users and consultant can access through internet as public portal.
- EC/FC/CRZ/WL/ Import & Export of Hazardous Material/ Exotic Live Species Management – This application will deal with applications for TOR and EC/CRZ/WLC/FC, gathering additional information from project proponents, tracking public hearing, recording public grievances etc.
- 4. GIS enabled DSS This application will help in verifying the location details and surrounding area, as provided in the application for processing the application for EC. This will raise alerts if any of specified rules is likely To-Be violated or help EAC to impose specific conditions, as per location needs. This will also suggest a rule-based checklist to the project proponents as per their project location. For example, it will highlight the water bodies, historical monuments, forest land, wildlife, habitation etc. within radius of 10 km. from project site. This will help in determining whether the proposed project site qualifies for the project under specific category or not.

This will help the applicant and MoEFCC both to quickly verify if the proposed project site is not in any of following areas and whether rules are permitting the same or will need some specific conditions.

A) Prohibited Areas —

- All national parks
- ii. Wilde life sanctuaries
- iii. Protect Areas
- iv. Tiger reserves
- v. Protected under International Conventions
- vi. Local legislation
- vii. Culture and other related values
- viii. Bio species
- ix. Near Défense installation

- x. No Development Zones
- B) Regulated Areas
 - Coastal Regulatory zones
 - ii. Eco sensitive zone
 - iii. Forest Land
 - iv. River regulatory zone
 - v. Wetlands
 - vi. Mountains
 - vii. Near to habitation
 - viii. Man-made / natural water
 - ix. Areas susceptible for natural hazards

The above regulated areas may be subjected to following type of sample rules and the applicant will get initial alerts at the time of applying for ToR or EC.

- Mining not allowed within 1 km of habitation
- ii. Road is allowed in CRZ
- iii. Aerial ropeway is allowed on mountains
- iv. Diversion of forest land not permitted for not site-specific activity

This DSS can be developed using Bharat Map based GIS, FSI and additional GIS layers can be included to make it more robust. On a similar line, GIS DSS would be enabled for FC/WLC. Ministry will facilitate sourcing of GIS Layer from concerned agency.

Following is the summary of GIS layers available in Bharat map and also the requirement of additional layers and their potential sources.

Table 20: GIS layers in Bharat map with Additional req. and sources

GIS Layers	Bharat Map (NIC)	Additional requirements	Sources
Administrative Boundaries	V	National/International/State/District/Sub-District Block/Village/GPs/AC/PCs and ULB as Point Development board, municipal boundaries, cadastral land parcels, Défense area	Bharat maps SOI ULB SOI MoD State Government((Revenue Dept)
Infrastructure Boundaries	x	Airports, Ports, Inland waterways terminals, Jetty	SOI AAI Ministry of Shipping/ Inland Waterways dept Port Trust
Hydrology	√	Ground water	CGWA
Ecology and Environment	x	National park, wildlife sanctuaries, Biosphere reserves, Tiger reserves, Habitat of migratory birds, CRZ, wetland, Biodiversity hotspots, Environment infrastructure (Dump yard, CETP and STP etc.)	FS1 State Forest Departments NRSC CPC CWC
Forest cover	√	Vegetation cover, Forest cover (density) and type	FSI
Land use and land cover	x	Land use and land cover, waste land, Agricultural land	NRSC
Monitoring stations	х	Location of monitoring stations, Air pollution, Water pollution, Noise pollution, Soil pollution, Rainfall, Meteorology, Wind rose	CPCB IMD

[#] The layers which are not available in Bharat maps, the MoEFCC will facilitate from source agency.

- NIC e office This is an existing application that is being used by MoEFCC for tracking the files within the government system.
- Compliance Monitoring This application will track and record the compliance reports filed by the project proponent, entity ledger, alerts for non-compliances and

ATR for noncompliance cases. Based on the recent development a Scope of work towards implementation of EC Compliance reporting and Monitoring System has been drafted and incorporated as below:

Component 1: Web-based EC Compliance Reporting and Monitoring System

- Result 1: Standard On-line Reporting Templates/Forms (to be embedded into the online system)
- Result 2: Web-based EC Compliance Reporting and Monitoring Systems –
 Upgraded or New portal
- Result 3: Mobile Application for EC Compliance Reporting and Monitoring Systems

Component 2: Standard Operating Procedures for putting to use the Web-based EC Compliance Reporting and Monitoring Systems

Result 4: Development of SOPs

Component 3: Empanelment of Certified Environmental Audit Organisations

- Result 5: Development of pool of Certified Environmental Auditors (CEAs) through Recognition of Prior Learning (RPL) scheme
- Result 6: Development of Pool of Certified Auditors/Managers
- Result 7: Empanelment/registration of Environment audit firms/Institutes having CEAs on their payroll

Component 4: Empanelment/registration of industry associations

Result 8 : Empanelment/registration of industry associations

Component 5: Capacity Building

- Result 9: Capacity Building Measures
- Result 10: Knowledge Products (Guidelines etc.)
- Result 11: Development of Environmental Damage Cost Assessment Tool- Web based
- Result 12: Additional activities for Web Based EC Compliance Reporting and Monitoring System

During design phase structure, content, information, list of technology suppliers, etc. will be provided by NPC.NIC may support for hosting and deployment into NIC IDC cloud environment as per NIC Cyber Security Guidelines. This could be in consultation with NPC, MOEFCC and NIC.

- Legal Repository This knowledge management application will be used for storing the record of Court or NGT orders and will be available to MoEFCC and the public for reference.
- Call Centre This application will be used by back office team to support the project proponent in filling the application, follow up for addition details submission, recording the issues related to clearance process.
- Case Management The issues raised by the project proponents during application
 processing shall be recorded and tracked till closer with this application.
- 10. Mobile App This application will have functionalities supporting the mobility of key stakeholders and inspection team etc.; those who are on field visit. This will also help EAC members to approve MOM, inspection team to capture field data and other users to access dashboards. This application will also help general public to register a pollution compliant against any specific project. This would be also be used for compliance recording and monitoring.
- 11. IoT Devices for Monitoring Stations This application will register IoT devices, tag them to location or EC and feed the real time data to centrally hosted server. This will help in near real time monitoring of the area / projects and raise the alerts for deviations. The data for Monitoring stations currently integrated with CPCB will be received through integration with CPCB server.

The Monitoring Stations can be used certain environment parameters like Air and Water at specified locations. These locations can be project specific or some industrial clusters etc. At certain locations this data is currently being tracked by CPC and in future many more such Monitoring stations can be set up. This data can be used by EAC while approving the EC. Currently, the following parameters are being tracked by CPC for Air and Water monitoring.

- A) Air
 - i. PM2.5
 - ii. PM10
 - iii. NO2
 - iv. NH3
 - v. SO2

B) Water -

- i. BOD
- ii. DO
- iii. Conductivity
- iv. pH
- v. Temperature
- vi. Ammonia
- vii. COD
- viii. TSS
- ix. Nitrate
- x. Faecal Coliform
- xi. Total Coliform

Transaction with due authentication (E-Sign)

The existing system PARIVESH does not support user authentication during transaction. This gap can be filled by making E-Sign / DSC mandatory, where various transactions will be authenticated by the user.

The following the list of indicative transactions where E-Sign / DSC will be used.

A) Project Proponents

- i. Form-1 submission
- ii. Form-2 submission
- Forms related to FC/WL//WL/ Import & Export of Hazardous Material/ Exotic Live Species or Unified Common application for EC/FC/WL/ Import & Export of Hazardous Material/ Exotic Live Species
- iv. EIA/EMP report Accepted from Consultant
- v. Additional document submission (EDS / ADS)
- vi. Filing EC/FC compliance report

B) Consultants

- i. Form-1 submission
- ii. Form-2 submission
- Additional document submission (EDS / ADS)
- iv. EIA/EMP report submission
- v. Filing compliance report after consent from PP

C) Auditors

Audit Report

- D) Member Secretary
 - Agenda for EAC
 - ii. MOM of EAC
 - iii. EC/CRZ/WLC/FC Issuance
- E) Ministry Officials
 - i. ATR
 - ii. Show cause notice
 - iii. Case Hearing
 - iv. Penalty

Analytics Platforms

- Process mining This will help in analysing the process data that is captured in the system along with the data manually entered in excel sheet or the data from CTE -CTO applications, shared in excel sheet.
- Interactive analytics This platform will be used by the experts for EIA and defining EMP, EC/FC Compliance monitoring using various model with varying parameters.
- Predictive analytics This platform will be used for developing new models for predictive analysis of various environment parameters.
- B1 This platform will be used to generate various analytics for various stakeholder dashboards.

14. Support Applications

- BPMS This application will be used for business processes modelling, business activity monitoring and reporting.
- Al Engine This will help in dynamic form creation, pattern recognition, analysis
 of scanned documents and applying sector wise general conditions.
 - Artificial Intelligence (AI) is an important aspect of proposed futuristic solution and being a technology, it cannot be restricted on any particular tool or platform.

It must be looked as a logic driven intelligent agent which will enable the solution in an intelligent way.

Al needs To-Be the integral part of the future IT solution. It can be used in some of the following problems –

- Filling the TOR or unified application for EC/CRZ/FC/WL, it can quickly validate if the relevant document is attached or not.
- It will quickly assess if the scanned attached document is readable or not and alter the applicant
- It will help the user agency to know that what all clearances will be required for his proposal
- It will be used in validating the project location and analysing the GIS based data to support the decision making
- It will be used in analysing the Monitoring station data and raise the alerts for potential violations
- It will be used in verifying the compliance reports and analysing the project wise trends
- It can be used for predictive analysis of the emission and water pollutants based on secondary data e.g. Coal consumption for computing potential gas emission
- viii. It will be used in analysis of historical data and monitoring the trends
- At based tools (e.g. Tableau) will be used by the experts' group to analyse the proposal using various models and matrix
- Support ML in developing the new models establishing the empirical relationship among various parameters
- It will help in identifying the typographical errors and enabling the correction of such mistakes.

Use cases for A1 would be evolved during design phase.

- SSO This will be used for ensuring single sign on credential for all applications.
- Rule Engine This application will be used for defining the rules for DSS and standard conditions catalogue.
- GIS App This application will be used for managing the GIS layers or subscribing relevant GIS services.

- 10. OCR This will be used to validate or verify the content of specific documents, before accepting the document.
- DMS This will be used for managing the documents supporting the EC/CRZ/FC/WL/Import & Export of Hazardous Material/ Exotic Live Species application, EAC, EIA, EMP and Compliance Filing etc.

3. Integrations

- External Services There will be external services for validation of PAN, CIN, Aadhar, GIS Services and also for data consolidation from SEAIA, SIAA, SPCB and other ministries and agencies.
- API Manager For agility, all applications shall be integrated through predefined APIs. This will help in managing such APIs.

6.5.1 Application Design Principles

1. Separation of Concerns

All software components should be separated based on the kinds of work it performs.

For that define the applications that expose and consume functionality as a service
using contracts and messages.

Single Responsibility

For specific set of logically grouped functionality, there should be only one module. There should not be any duplication of any functionality in any other application or module. Any specific functionality must be implemented in only one component.

3. Service Oriented Architecture

For greater agility, loose coupling with less dependencies, SOA should be preferred.

Bounded Context

The complexity of CPC-Green processes should be tackled in large applications by decomposing it into separate conceptual modules. Each conceptual module then represents a context that is separated from other contexts and that can evolve independently.

5. Communication

The CPC-Green applications can receive and send messages using one or more communication channels.

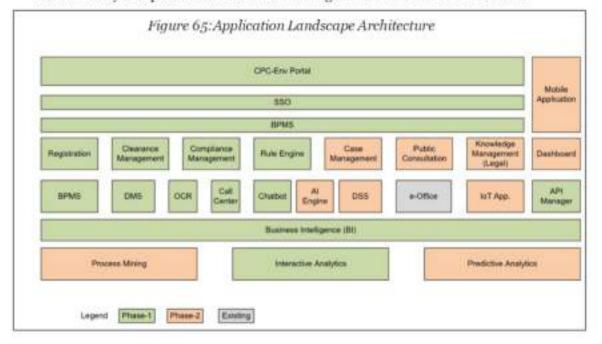
6. Deployment

CPC-Green applications should be designed for N-Tier architecture and deployed separating the functionality into separate segments with each segment being a tier located on a physically separate computer

6.5.2 Application Landscape

The applications landscape has been categorized into logical groups based on the functionalities the component support in the overall system. This allows for decomposing the application into logical building blocks and logical grouping of software components. The diagram below represents the logical building blocks identified for CPC-Green system aligned to the design principles discussed above and also caters to the rapidly changing business needs and stakeholder requirements.

Each of the layer depicted in the architecture diagram have been discussed below:



6.5.3 Presentation Layer

This layer controls and manages the interactions of the stakeholders with the CPC-Green system. This includes access through multiple channels and open services. The list of channels envisaged for the users accessing the CPC-Green suite are discussed below:

Table 21: Delivery Channels

User Type	Description Description
Web	Web access through a portal shall be provided to the end users including both internal and external stakeholders. The web portal shall be rendered on both desktop and mobile devices
Mobile	It is envisaged that a mobile app shall be developed for CPC-Green, wherein the users can commit transactions, access reports, dashboards and requests for status update against their service requests
Email	External users can interact with CPC-Green helpdesk using emails. The email shall also be used to issue notices/ orders to the project proponents based on predefined templates. Some of the key characteristics of the email system are listed below: Shall support SMTP, POP3, IMAP protocols for email exchange Should be accessible over desktop, web and mobile client The system should have ability to set configuration parameters to establish POP3/ IMAP support at the user level
Voice call	A user can take support from the helpdesk established by CPC-Green.
Chatbot	Acts as one of the mediums to resolve users queries on domain perspective or technical support. It is envisaged that a rich interactive chatbot client shall be used which shall also take Service Request Number as an input and provide the status of the service. The queries received by CPC-Green through any of the channels shall be used to build up the artificial intelligence capabilities of the bot
Data Sharing through API	Data sharing shall be provided through API to other Government Departments who would need CPC-Green data for their internal consumption

6.5.4 User Touchpoints

Table 22: User Touchpoints

Access Type	Description
Web Portal	All the users would access the system for submission/modification of forms and for retrieving/accessing any information. It is envisaged that the portal shall be responsive and be able to successfully render over major web browsers on both laptop/desktop and mobile versions. It is envisaged that the web portal should be responsive depending on the device being used. Alerts and notification are required To-Be pushed out to the both internal and external users. These alerts shall be pushed to both the portals and through collaboration services
Mobile apps	It is envisaged that hybrid app shall be created for both external and internal users of CPC-Green system. The app shall be more informational in nature and shall provide the required information to the user by fetching details from the core solution through secured APIs. The users may use the mobile app to geo-tag the addresses of the companies over GIS maps by capturing their latitude and longitude details using the GPS/ A-GPS/ triangulation-based location identification features of the mobile devices.
Helpdesk	It is envisaged that a unified helpdesk shall be established as part of CPC-Green. The helpdesk shall provide support to the end users through: • Voice call • Email • Chatbot Support ticket raised through portal/ mobile app Any other medium

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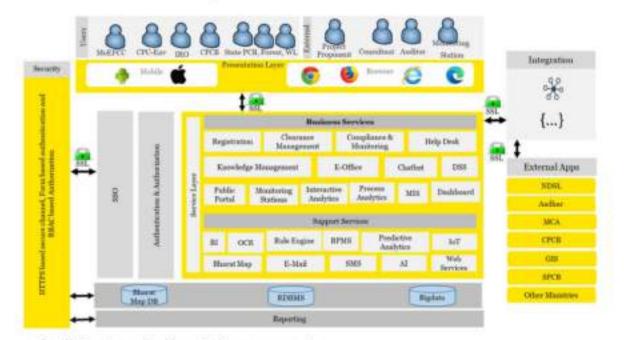
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Access Type	Description
1800	Helpdesk shall be supporting the users on both functional and technical matters and shall also support the users on queries pertaining to CPC-Green related issues.
	Helpdesk shall be SLA driven and shall be monitored for performance on the response time and resolution of concerns and ticket closure time

6.5.5 Business Applications

Following is the envisaged solution architecture for the CPC-Green.

Figure 66:Solution Architecture



The following are the key solution components.

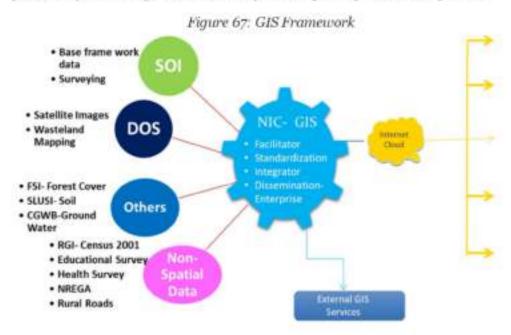
Table 23: Solution Component - Business Application

User Type	Description
BPMS	BPMS shall enable the workflows and data exchange for various business processes. This shall include process tasks and routing. BPMS shall allow the configuration of various users for different roles etc. into the business processes for various kinds of approvals / rejections on various forms / documents submitted by the project proponents.
Rules engine	Rules engine will be required to define and execute the business rules of CPC-Green. All the business rules and conditions catalogue for the EC/CRZ/WLC/FC Issue, Compliance process/ Forms 1 & 2 shall be built into the application. This shall also establish the sequence of operations that are associated in a task being executed and in case of a conflict shall flag it to the user.
Al engine	CPC-Green shall implement Artificial Intelligence engines to automate tasks based on the following areas:

User Type	Description	
	Helpdesk – The AI engine shall be able automate some of the crucial tasks in helpdesk management, through Chatbot for Li / L2 support. Decision support by applying the rules for project appraisal Data analysis: AI/ML can be leveraged to determine patterns in data and also identify links among various SDD parameters for the compliance analysis by CPC-Green	
Bl & Reporting	Query and reporting are essential components of the CPC-Green and for day to day functioning of CPC-Green. It is envisaged that the proposed system shall be able to generate reports on any data that is being captured in the system be it functional or operational data.	
Web Portal	Web portal is required to maintain the content on the website of CPC- Green. Along with the facility to easily publish content on the website, CMS would also have facility to maintain access logs for security and accountability purpose.	
Document Management	Document Management System (DMS) would form integral part of the solution as the corporates would be uploading the supporting documents for various purposes on the CPC-Green portal along with their forms. Documents generated from any module would be stored and handled by Document management system.	
OCR	OCR will be used to verify that no blank or irrelevant document is To- Be uploaded as EDS, ADS or EC/CRZ/WLC/FC Compliance report.	
GIS Database	This will be used for implementing the DSS rules and verify the field data provided by the project proponents.	
IoT Devices	These devices will be installed at Monitoring stations to continuously feed the environment data.	
API Management	API shall form the core of integration both internally and with external systems with CPC-Green system. To manage such a vast requirement for integration following considerations (not limited to) are required To-Be considered: • Security for data exchange • Throttling of API access requests and data exchange • Metering of API requests	

Description	
Scalability	

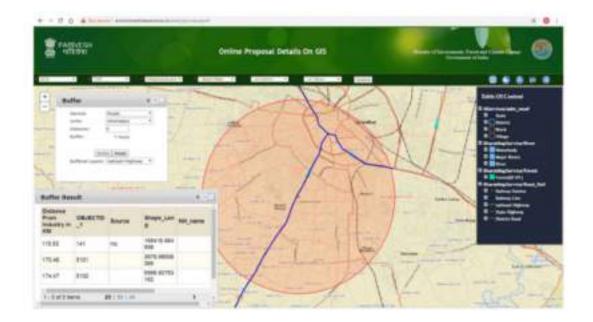
GIS component is an important part of the solution that needs To-Be used by the project proponent for applying for ToR and EC/CRZ/WLC/FC. The same also need To-Be used by EAC. However, this is not one-time activity and need To-Be updated periodically. Following is the schematic plan for updating the GIS component.



GIS based Decision support system would provide qualitative, quantitative & administrative attributes of environment to facilitate, informed, unbiased and expeditious decisions on management of environment. ArcGIS server may be used.

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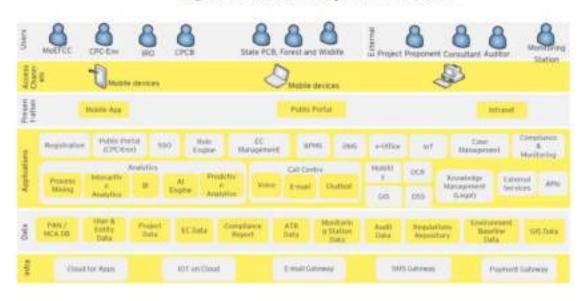
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6.5.6 Solution Components

Following is the envisaged solution architecture for the CPC-Green.

Figure 68: Solution Component Architecture



The following are the key solution components.

Table 24: Solution Component

User Type	Description
BPMS	BPMS shall enable the workflows and data exchange for various business processes. This shall include process tasks and routing, BPMS shall allow the configuration of various users for different roles etc. into the business processes for various kinds of approvals / rejections on various forms / documents submitted by the project proponents.
Rules engine	Rules engine will be required to define and execute the business rules of CPC- Green. All the business rules and conditions catalogue for the EC/CRZ/WLC/FC Issue, Compliance process/ Forms 1 & 2 shall be built into the application. This shall also establish the sequence of operations that are associated in a task being executed and in case of a conflict shall flag it to the user.
Al engine	CPC-Green shall implement Artificial Intelligence engines to automate tasks based on the following areas:

User Type	Description
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	identify links among various parameters for the compliance analysis by CPC Green
BI & Reporting	Query and reporting are essential components of the CPC-Green and for day to day functioning of CPC-Green. It is envisaged that the proposed system shall be able to generate reports on any data that is being captured in the system be in functional or operational data.
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IoT Devices	These devices will be installed at Monitoring stations to continuously feed the environment data.
API Management	API shall form the core of integration both internally and with external system: with CPC-Green system.
	To manage such a vast requirement for integration following considerations (no limited to) are required To-Be considered:
	Security for data exchange Throttling of API access requests and data exchange Metering of API requests

User Type	Description
	Scalability

6.5.7 Integration Approach

RefinedFor efficient working of CPC-Green, it's important that the solution components also share the data and exchange the messages in equally efficient manner. This needs To-Be done through seamless and secure communication among the applications while ensuring the separation of concern among the applications. This can be better achieved with APIs.

Application programming interfaces (API) will be the messenger for processing the requests and ensures seamless data exchange and messaging among CPC-Green systems and external applications. API enables robust and secure interaction between data, applications, and devices. While CPC-Green's APIs will ensure a seamless communication between various applications. But it will be done by exposing limited and only relevant internal functionality of the applications being integrated.

Considering the wave 1 and wave 2 approach of implementation, in which wave 1 shall have phase-1 and phse-2 for applications. Considering this, the incremental integration approach would be more appropriate as that will allow integrating systems in priority order, focusing on a few systems at a time.

6.5.8 Data Management

Table 25:Data Management

Key aspects	Description
Data Management	CPC-Green systems shall work on both structured and un-structured data including documents (pdf, doc, images, email, etc.). CPC-Green system generates following types of data: • Master data
	Operational data Transactional data In future, Monitoring station data may also come in stream and will be stored in Bigdata database
	The system will store data in RDBMS and File system. Some of the key areas managed by the solution are:

Key aspects	Description
	Data quality
	Data integrity
	Data accessibility
	Data Standardization
	Data integration
	Data collection efficiency
	It is envisaged that the following separate data stores shall be required To-
	Be established:
	Core database
	 Core file in form of pdf files
	Email data storage
	Reporting data
	Master data
	Data strategy is To-Be put down in place. This data strategy shall be finalized in discussion with CPC-Green internal users and shall be audited for implementation by a third party.
Data catalogue	 This will comprise of metadata containing object definitions and allows the end users to discover and consume data sources. Some of the key features of data catalogue solution have been listed below: Integrate with multiple data platforms and sources Business glossary of terms Collaboration features
	Ensure data is trustworthy
	 Monitoring, auditing and tracing data for information governance
	Metadata for query optimization
	 Data context information to ensure appropriate use
	Data access controls for data security
	Data suggestion feature
	 Unified view of data assets for business users
Data Backup and Archival Management	Data backup solution shall ensure that all the data is backed up from DC to Government Secured Repository and also to DR. This has To-Bo synchronized to ensure no data loss in case primary site goes down. Data

Key aspects	Description
	not being used frequently shall be archived using archival solutions and will be retrieved as and when required. No data shall be purged or deleted from the system.
	The following solution components shall be required to manage the data backup and archival as per the requirements discussed above:
	Mirroring: It creates a duplication of data by creating the mirror of the primary disk to the other. It is created on host system through OS or volume management software. It can be used while creating a backup of the volume locally and generally works on store and forward methodology Snapshots: Available in three flavours based on: File system Subsystem
	These are extremely important from the perspective of business continuity. The SI shall be required to prepare a strategy for using snapshots based on the understanding of how the operations shall be established as it would have a toll on daily operations and regular, on-going administration Replication: Supports transfer of data objects over a TCP/IP connection and is platform specific. However, load on network bandwidth shall be a point of consideration
Data import/ export	CPC-Green data is required data exchange with external agencies and entities. The data exchange will be both import and export. There would be times when the whole set of data is required To-Be exported out of the data store. For such instances, the system should provide a facility for the user to export out data from the system as per their requirement. It should also allow the user to filter data based on multiple parameters.
Data Governance	Data Governance shall manage how the data is being governed and owned by data owners. It shall also define who all are the data stewards, be it application of individuals who would facilitate exchange and facilitation of data. Data governance includes the following key areas To-Be managed under it: Meta data management

Key aspects	Description
	Data architecture analysis and design
	 Database management
	Data security management
	 Data quality management
	 Reference and master data management
	 Document record and content management
	 Data warehousing and Business intelligence management

6.5.9 Security Management

This section provides an overview of the IT, security design considerations and proposed solutions for CPC-Green. Adequate security risk management practices should be established through purposeful implementation of application security in order to achieve desired cyber resilience.

Applications security solutions can be classified into the following categories:

- 1. Application Security
- 2. Data Security
- Authentication and Identity & Access management
- 4. Monitoring and Management

Basis an assessment of CPC-Green's security requirements the table below represents potential solutions which can form a part of the various categories.

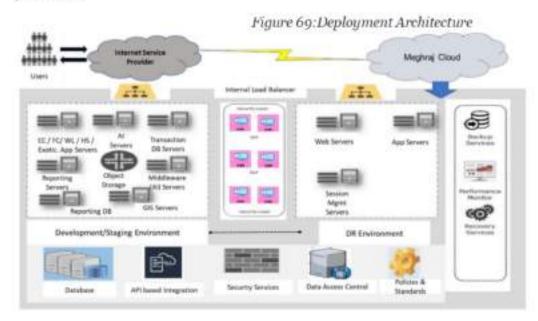
Table 26: Potential Solutions

S. No.	Category	Security Solution
1	Access management	Access Management
2	Access management	IAM
3	Application security	Static code analysis
4	Application security	Anti-malware
5	Application security	Anti-phishing
6	Application security	Dynamic code analysis
7	Application Security	DDOS solution
8	Application Security	Web Application Firewall
9	Data Security	Information rights management

S. No.	Category	Security Solution
10	Data Security	DLP solution and consulting
11	Mobile Security	Mobile Security Solution
12	Monitoring and Management	SIEM
13	Monitoring and Management	PIM
14	Monitoring and Management	Database Activity Monitoring
15	Digital Certificate	PKI
NY.17	THE CONTROL OF THE PROPERTY OF	100000mg

6.5.10 Deployment Strategy

The proposed strategy for deployment is to replace the old version with the new one. For replacing the modules of existing applications, the new modules with enhanced functionalities must be tested comprehensively on test environment. The data must be cleaned, corrected and verified. A testing migration shall be done before rolling out in production.



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The solution for the CPC-Green will be deployed in MEGHRAJ Cloud. The parameters pertaining to data security, high availability and real-time synchronization will be ensured during the process of deployment.

The cloud infrastructure is architected in a manner to maintain availability of all essential & prioritized services and ensures to define procedures, programs & processes. The Server Zone in DR as well as staging/ development environment will be created keeping in view the overall requirement.

Major features like data security, access control mechanism, scalable infrastructure & services, data integrity and redundancy along with data virtualization are To-Be considered while deploying the solution into cloud-based infrastructure. The Service offering by the implementing agency shall ensure to adhere all standard features and guidelines pertaining to solution hosting to cloud based environment.

Key drivers and potential benefits are:

- Optimum utilization of existing infrastructure
- Rapid deployment and reusability
- Manageability and maintainability
- Scalability
- Efficient service delivery and agility
- Cost reduction
- Reduced effort in managing technology
- Increased user mobility
- Standardization

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7. Implementation and Procurement Strategy

MoEFCC in consultation with NIC will have the following options to develop PARIVESH 2.0 as mentioned below:

Option 1

Managed Service Provider (MSP) To-Be selected by NIC/NICSI for implementation of the new solution – PARIVESH 2.0

- PARIVESH 2.0 To-Be developed & deployed by Managed Service Provider under the supervision of NIC
- NICSI to manage procurement of PARIVESH 2.0
- NIC's MEGHRAJ cloud To-Be used for hosting
- NIC to provide Disaster Recovery Site
- Standards & Specifications To-Be provided to states (Non OCMMS) for integration with PARIVESH 2.0

Ministry can rope in NICSI for drafting terms of reference and a limited tender can be floated to already empanelled vendors in NICSI.

 Option 2 (recommended) –
 For details discussion and advise annexure -IV and V: Minutes of the meeting may please be referred.

NIC to augment its development team to initiate development of PARIVESH 2.0

- PARIVESH 2.0 To-Be developed & deployed by NIC in the centre
- NICSI to manage procurement of PARIVESH 2.0
- NIC's MEGHRAJ cloud To-Be used for hosting.
- NIC to provide Disaster Recovery Site
- Standards & Specifications To-Be provided to states (Non OCMMS) for integration with PARIVESH 2.0
- NIC to make required changes in OCMMS after consultation with states and perform the integration so that necessary MIS can be generated.

NIC can use NICSI's existing empanelment for issuing direct orders to execute the work. In this option, resourced would be hired on man-month basis and managing the scope of work would be entire responsibility of NIC/NICSI. NIC will assist NICSI in onboarding of the vendors by providing required technical know-how.

Option 2 is adopted by the ministry to retain the flexibility of accommodating unplanned/dynamic changes in the application and to reduce implementation time. Hence, he recommended option 2 for project implementation.

7.1 Migration from PARIVESH to CPC-Green.

Key highlights of the migration strategy from the current PARIVESH to the revamped solution are:

- Current development and support team to continue to maintain existing PARIVESH
 application till PARIVESH 2.0 is launched and rolled out completely.
- NIC to deploy/develop/customize software solution as per specifications and requirements proposed by the Consultants and approved by MoEFCC.
- Existing PARIVESH application To-Be discontinued in planned phases.

7.2 Implementation Roadmap

Below is the roadmap that has been identified to implement the strategy for revamping and optimize the MoEFCC TOR and EC/CRZ/WLC/FC processes

"To - DPR approval

7.2.1 Timelines

7.2.1.1 Track 1

Track 1 – Business Process Reengineering (Primary ownership - MoEFCC)

Table 27: Business Process Reengineering

S. No.	Activity	Timeline	Timeline Duration (in weeks)
1	DPR approval & Financial Clearances	To	To
2	Forms rationalization and consolidation	T ₁	To+4
3	Standardization of MOM, Agenda, Brief, EC/FC/WL/CRZ formats	Tz	T ₀ +10
4-	Condition catalogue codification	T ₃	To+12

S. No.	Activity	Timeline	Timeline Duration (in weeks)
5	Approval Rules To-Be redefined for each application such as TOR/EC/FC/CRZ/WL, expansion etc.	T ₅	To+14
6	Standardization of MOM, Agenda, Brief, formats for EC, FC, CRZ and WL	T _e	To+16
7	Consultation with other sectors (within Ministry) and States To-Be onboarded States To-Be onboarded Selection of Pilot States (at least two) for OCMMS Integration Discussion with other remaining states for OCMMS integration Consultation with states to define workflow for WL/FC clearances	T ₆	T _o +16 T _{o+} 4 onwards

7.2.1.2 Track 2

Track 2 - Procurement of PARIVESH 2.0 (Primary ownership - NIC)

Table 28: Procurement of PARIVESH 2.0

S. No.	Activity	Timeline	Timeline Duration (in weeks)
1	DPR approval/Fund sanction	T _o	То
2	Finalizing Project Scope and skills requirements	T ₇	To+4
3	Evaluation of Resources	T ₈	To+8
4	Issuance of Work Order	To	To+ 10
5	Onboarding of Resources (Staggered as per project plan)	T ₁₀	T ₀ +12

7.2.1.3 Track 3

Track 3 — Development and Implementation of PARIVESH 2.0 (Primary ownership -NIC)

Table 29: Development and Implementation of PARIVESH 2.0

S N.	Phase	Activity	Timeline	Timeline Duration (in Weeks)
1	Wave 1*	SRS Sign off	Tu	To+ 18
2		Core Application Development/Customization for EC (CAT A), and FC. Integration with GIS module	T ₁₂	T _o +30
3		UAT, bug fixing and security audit for Wave 1 Applications	Tig	T _o + 38
4		Data migration for CATA EC, FC, hosting, implementation and User training	T14	To+ 46
5	Wave 2	SRS Sign Off	T ₁₅	To+ 32
6		Core Application Development/Customization for EC (CAT B), CRZ, WL, Import and Export of Hazardous Waste Material, Import of Exotic Species	T ₁₆	T _o +50
7		UAT, bug fixing and security audit for Wave 1 Applications	T ₁₇	To+ 58
8		Data migration for CAT B EC, CRZ, Import and Export of Hazardous Waste Material, Import of Exotic Species hosting, implementation and User training	°L'18	T _o + 64
9	Wave 3	SRS Sign Off	Tig	To+64 onwards

"The implementation of PARIVESH 2.0 can be carried out into three waves. During wave 1 standalone components of PARIVESH can be developed along with some basic

analytics required for day to day operation of the Ministry. During wave 2 integration with OCMMS and other state consent management modules (pilot states) can be carried out and a central repository of the proponents is To-Be formed. During wave 3 rollout, more states would be integrated. Further based on the learnings from these rollouts' full rollout of PARIVESH 2.0 can be carried out. The wave 3 would be ongoing as the future requirements will keep coming as the system evolve.

* Since the application will follow Agile Methodology promotes continuous iteration of development and testing throughout the software development lifecycle of the project, incremental and continuous delivery of the modules will take place.

7.3 Governance Structure

The roles and responsibilities of the key stakeholders is listed below:

MoEFCC

- It is assumed that the MOEFCC will provide all the domain knowledge transfer as
 and when asked for, in form of soft copies, interactions etc.
- The MOEFCC will release funds to NICSI as per proforma invoice and revised estimates for the continuity of services.
- The MOEFCC is required to provide the closure statement to NIC/NICSI of the project activities for the session.
- The MOEFCC will abide by the IT Act and Aadhaar Act and complete all formalities
 To-Become SUB-AUA of NIC, if necessary.
- The MOEFCC is responsible for giving the project sanctions within stipulated time so that the Critical Path of timelines can be maintained.
- MOEFCC will be responsible for signoff of the user development for rollout and on completion of implementation rollout.
- MOEFCC, consultation with states to discuss and finalize the implementation strategy
- They will Issue directions for preparation of standards and specifications of PARIVESH 2.0 & OCMMS
- Continued leadership including overall direction, guidance and conflict resolution.
- Nominate subject matter experts to guide the implementation team
- Approval of design, development and deployment of PARIVESH 2.0
- Selection of two pilot state(s) for development & integration with OCMMS
- Project review and monitoring of states for integration with PARIVESH 2.0

- Conducting of awareness campaigns
- Identification of team for UAT and carry out the UAT exercise
- Logistics arrangement for training sessions (space, desktop etc.) for NIC/NICSI development team

States

- Designating a Single Point of Contact (from SPCB & forest offices) for coordination of the activities with MoEFCC
- · Assist in integration with OCMMS
- Facilitating training to its functionaries and facilitating adoption to PARIVESH 2.0
- Regular reporting of progress in the State to MoEFCC

NIC

- NIC MOEFCC team will be responsible for Design, Development and Operationalization of the software, and they will be aided in the exercise by the MOEFCC
- Monitoring development of PARVISH 2.0
- Providing Technical Consultancy to the MOEFCC
- NIC will ensure possible information secrecy and security in its network and databases
 and system folders for all facilities and services as per the current technology standards
 and to the extent feasible keeping in view of resource constraints and involved
 sensitivity. NIC will respect information propriety of the MOEFCC and will provide all
 mutually agreed safeguards, which are feasible within the current ambit of technical
 feasibility and resource constraints.
- Coordination with other NIC divisions (Cloud, office, email/SMS etc.) and with State NIC units wherever required.

NICSI

- NICSI will open a project on receipt of funds from MOEFCC for maintaining accounts under proposed heads for CPC-Green.
- NICSI will be responsible for processing of work orders, Selection of empanelled vendor.
- NICSI shall ensure that the associated vendors have demonstrated capacity to serve the interest of the project.
- For the project CPC-Green, NICSI will hire required skilled manpower resources
 through its empanelled vendors(Tier-1/Tier-2 as relevant) /GeM for the support and
 extensibility of application services. This team will be deployed at designated locations
 for the application support, extensibility and training under the supervision of NIC as
 per the requirement of the project.
- NICSI, from Project funds provided by the user will bear the applicable TA/DA, local
 conveyance, recurring expenses, procurement of stationary, consumables,
 refreshment bills etc. for the meetings and other activities as necessary for the project
 work.
- All Original bills regarding service/manpower/hardware request generated in the project will be raised by NICSI in the name of MOEFCC. Original bills regarding service/manpower/hardware request from NIC will be raised by NICSI in the name of MOEFCC. Upon receipt of funds from the user, NICSI will raise original bills in the name of the user.
- NICSI shall be entitled to get Operating Margin as applicable from time to time for the
 cost of total hardware, system software and other services including but not limited to
 manpower services as arranged to facilitate the II outsourcing for Software Project
 implementation.
- NICSI undertakes to pass on the price difference to the user or levy additional charges
 if any in the event of prices undergoing changes between the time of submission of
 proposal and actual date of order with the vendor.

Development and Implementation team

- Setting up of project team and appointment of Project Manager
- Detailed requirement study, analysis and documentation
- Preparation of design documents for PARIVESH 2.0
- Development of PARIVESH 2.0 as per agreed project plan
- Deployment of PARIVESH 2.0 at MoEFCC

- Perform UAT and ensure smooth rollout of PARIVESH 2.0
- Closure of findings of the Security audit and GIGW audit of PARIVESH 2.0
- Transition planning and executing from PARIVESH 1.0 to PARIVESH 2.0
- Operation and Maintenance of PARIVESH 2.0 for the prescribed duration
- Ensure compliance to agreed SLAs.
- Knowledge transfer and training sessions to State and Centre teams

Consulting PMU (Project Management Unit)

- Project Scoping, Assistance in selection of resources, Contract Preparation
- Project tracking, monitoring and reporting to MoEFCC
- Assist MoEFCC in preparation of guidelines for States
- Support MoEFCC in consultation with States and selection of pilot states
- Review of training & capacity building plan, implementation and rollout plan
- Review change reference document
- Review deliverables and training manuals prepared by Development Team
- Assistance in UAT of PARIVESH 2.0
- · Ensure all milestones are completed within the agreed timeline
- Submission of periodic progress report
- Review risk management and mitigation plan

CPC

Following would be the role and responsibilities of CPC but not limited to:

- CPC will be scheduling and organizing TOR and EC/CRZ/FC/WL/Import and Export
 of Hazardous Waste material/Import of exotic species proposal review meetings.
- Preparation of MoM and getting signoff from the committee members on the same day.
- Correspondence with project proponents on behalf of MOFECC
- Providing Technical assistance and help desk support to the project proponents.
- Review the TOR and EC/CRZ/WLC/FC proposal received from project proponent and prepare a summary and put-up for approval

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Detailed Project Report: CPC- Green

7.4 Critical Success Factors

Following details out the critical success factors for the CPC-Green:

Figure 70: Critical Success Factors

Business Ownership	 Should not be considered as an IT project. Ownership of Ministry is expected
Leadership Commitment	•Focused top down approach for implementation of initiatives
Credible Authority	To make decisions with respect to scope and structuring of initiatives
Resource Availibility	•The program will require dedicated resources till the initiatives get implemented and stablized
Avoid Big Bang Approach	Phased implementation of initiatives is recommended to ensure manageability and change readiness
Communication & Change Management	 Regular communication on the project and its impact on the Project Proponents/Entities
Transition Plan	Detaield transition & migration plan should be drafted to avoid data inaccuracies and ensure business continuity

8. Budgetary Estimates

- Budget for manpower has been estimated based on existing empanelment rate and are likely
 To-Be changed in future
- The software licenses considered are mainly open source except for few critical product licenses such as Analytics and Database. These shall be assessed and finalized during the detailed system design.
- Rates for Cloud Services, PMU, Application Development and Support are as per the NICSI
 empanelled rates. These may be revised at the discretion of NICSI, during the course of
 implementation of the project and shall be charged at actuals at that time.
- NIC would augment its team by hiring resources from all NICS1 empanelled vendors under different categories such as consulting, development etc. It may not hire all resources from single vendor from same empanelment category for any track.
- Rates for Central Processing Centre (CPC) and helpdesk are as per standard pricing considering the expertise and the need for sourcing from open market.
- The cost for development centre shall be further reduced if the Ministry makes available seating space for the Application Development and Support teams.
- These cost estimates are for a period of 5 years from project kick-off. However, some of the tracks would start after a period of 6 months or 1 year from the project kick off date.
- NICSI would charge 5% commission on overall procurement value.
- If Seating arrangements/Logistics provided by the MOEFCC at 1PB, allied cost of Rs. 1.72 Cr would be reduced.
- Interim Consulting PMU of 4 Manpower of 3 months would be adjusted from the above DPR.

Table 30. Budgetary Estimates

Core Components

No.	S. No. Item	Total Amount	Year Wise Costing	20			
		(in INR)	Year 1	Year 2	Year 3	Year 4	Year 5
	License Support	3,25,37,500	1,93,07,500	33,07,500	33,07,500	33,07,500	33,07,500
	Cloud Charges	4,76,49,784	59,83,672	1,02,09,168	1,03,47,408	1,04,85,648	1,06,23,888
	Application Development	13,33,82,472	13,33,82,472	+	-	140	
	Application Maintenance and Support	32,25,15,076	(2)	8,28,48,390	7,67,76,873	7,98,47,948	8,30,41,865
	CPC	7,37,44,838	75,00,000	1,56,00,000	1,62,24,000	1,68,72,960	1,75,47,878
	Consulting PMU	7,39,39,387	2,13,69,600	1,84,55,424	1,09,28,486	1,13,65,626	1,18,20,251
	Help Desk	2,41,88,307	24,60,000	51,16,800	53,21,472	55,34,331	57,55,704
	Security Audit	30,00,000	10,00,000	5,00,000	5,00,000	5,00,000	5,00,000
	Development Centre Cost	1,88,16,000	49,92,000	34,56,000	34,56,000	34,56,000	34,56,000
otal	Total (without taxes)	72,97,73,364	19,59,95,244	13,94,93,282	13,94,93,282 12,68,61,739 13,13,70,012 13,60,53,087	13,13,70,012	13,60,53,087

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Coordination & Support

10

4,11,32,227

3,95,50,218

3,80,29,056

3,65,66,400

15,52,77,901

Total	88,50,51,265	19,59,95,244	17,60,59,682	17,60,59,682 16,48,90,795	17,09,20,231	17,71,85,314
NICSI Charges (5%)	4,42,52,563	97,99,762	88,02,984	82,44,540	85,46,012	88,59,266
Miscellaneous Expenses such as 5MS, Training, local and outside Travel etc. (2%)	1,77,01,025	39,19,905	35,21,194	32,97,816	34,18,405	35,43,706
Contingency (4%)	3,54,02,051	78,39,810	70,42,387	65,95,632	68,36,809	70,87,413
Grand Total	98,24,06,905	21,75,54,721	19,54,26,247	19,54,26,247 18,30,28,782	18,97,21,456	19,66,75,698
GST @ 18%	17,68,33,243	3,91,59,850	3,51,76,724	3,29,45,181	3,41,49,862	3,54,01,626
Total (with taxes)	1,15,92,40,147	25,67,14,571	23,06,02,971	23,06,02,971 21,59,73,963 22,38,71,318 23,20,77,324	22,38,71,318	23,20,77,324

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8.1 Application Development and Maintenance Cost

8.1.1 Application Development Cost

Table 31: Application Development Cost

			* **			_
S. No.	S. No. Role	No. of Resources	No. of Resources Duration(in months)	Person Months	Person Month Rate	CAPEX
	Project Manager	1	12	12	3,52,693	42,32,316
2	Team Lead	2	12	24	3,40,772	81,78,528
m	Business Analyst	3	12	36	2,11,756	76,23,216
	Tech Lead	2	12	24	2,69,897	64,77,528
10	Lead Developers	3	12	36	2,06,859	74,46,924
10	Developers (App, GIS, Mobile, Al) 24	12	288	2,06,859	5,95,75,392
1	Integration Developer	3	12	36	2,06,859	74,46,924
00	QA/Tester	4	12	48	2,04,900	98,35,200
	DBA	2	12	24	2,10,581	50,53,944
10	5	2	12	24	2,10,777	50,58,648
11	Analytics	3	12	36	2,06,859	74,46,924
12	Infrastructure Specialist	1	12	12	2,08,622	25,03,464
13	System Admin	1	12	12	2,08,622	25,03,464
Total Cost	Cost			612		13,33,82,472

"Tier 1 rate considered

8.1.2 Application Maintenance Cost

Table 32: Application Maintenance Support Cost

4	100	Nr. of Resources	ä	cross Month Rate/Wifer	you Worth Rets!?	Person Month Batelli	stanle morballman Morb Residence Worth Residence Morb Residence North Residence	MCast Year 2	Cost feet 3	Coot Year 4	Cost Year 5 D	OPDK
	Project Manager		W	3,17,588	3,64, 811	3,82,473	136712	40,32,316	44,01329	45,77,473	47,50,300	1,5,72,378
0.5	Buckess Assignt	m	147	2,11,755	23(3)6	2,39,885	138,197	30,11,608				38,11,638
	Tethiasd	1	17	2,8,897	230,633							64,77,538
14	Land Developen	2	19	2,00,859	21513			8,84,616	116.62.12	53,99,729	\$15,86,518	2,10,82,943
925	Developers (including Assigns, Al, 055 Wobil)	n		2,36,859	215130	123739		7	4,64,68306			18.97,36,558
22	Integration dev	7	19	2,36,859	21513		131,688		51,61201	53,69,729	55,84,518	2,11,0,063
	OMTeser	2	9	2,04,900	211066			49,17,000	Ľ	59,39,876	55,31,611	2,08,82,411
	064,		4	2,00,582	219304			5,1637.7		27,33,73	28.42.900	107,30,696
	10	-	19	2,30,777	21928		237,095		1630,037	DIST.	21,6,346	90,33,421
	Infrastructure Specialist	-1	0	2,88,522	216967					-	2000	
-	Sestim Admir	re	*	2,88,522	216907		234,671	90,06,018	52,02,05	54,15,493	54,22,313	3,12,61,740
S EAS	100	16	111					1 38 48 30	74716431	758-479-488	233.41.853	DREAM

8.1.3 Security Audit

Table 33: Security Audit

1 Annual Security Audit 1 5,00,000 10,00,000 5,00,000 5,00,000 5,00,000 5,00,000 30,000 Sub-Total (Seating) 10,00,000 5,00,000 5,00,000 5,00,000 5,00,000 30,000	S. No.	Security Audit	Qty	Cost	Cost Year 1	Cost Year 2	: CostYear3	Cost Year 4	Cost Year	5 Total
(Seating) 10,00,000 5,00,000 5,00,000 5,00,000 5,00,000	1	Annual Security Audit	1	5,00,000	10,00,000		5,00,000	5,00,000	5,00,000	30,00,000
(Seating) 10,00,000 5,00,000 5,00,000 5,00,000 5,00,000						0.0000000000000000000000000000000000000	-	20.000.0000	200000000000	200000000000000000000000000000000000000
	Sub-Tol	al (Seating)			10,00,000	5,00,000			5,00,000	30,00,000

"Inflation - 4%

Detailed Project Report: CPC- Green

8.1.4 License Costs

Table 34:License Cost

S. No.		them	Basis	Units	Doense Cost	Year 1	Year 2	Year 3	Year 4	Year 5	CAPEX (Yr 1)	OPEX	Total
***	CMS	Drupal CMS	server									(48)	*5
P4	19	Tablesu Explo Client	Client	25	31,500	1,57,500	1,57,500	1,57,500	1,57,500	1,57,500		7,87,500	7,87,300
	161	Tableau VieweClent	Client	100	11,000	11,00,000	11,00,000	11,00,000	11,00,000	11,00,000		35,00,000	95,00,000
7	Visualization	Visualization Tableau DeskilClient	Client	2	000'59	1,30,000	1,30,000	1,30,000	1,30,000	1,30,000		6,50,000	6,50,000
wa.	Transactional	ransactional PostgreSQL	Server	32	1	19,20,000	19,20,000	19,20,000	19,20,000	19,20,000		96,00,000	96,000,000
	Reporting DB	Reporting DB Casandra / MiServer	Server		100							1	75
7	ESB	WSO2 Open	server										300
00	ETL	Talend Open server	server									i.	œ
gn.	DCR	Free DCR / Ned server	Gserver										4.7
30	DMS	SeedDMS	server									360	040 000
п	Process Mining ProM	ProM	Clent										-
12	BPN/S	JBPM / Activitiserver	iserver									¥	3
13	Mobile Platfor	Mabile Platfor Android Studijserver	server									*	7.0
25	Helpdesk with	Helpdesk with Teamwork / Mserver	Wserver									*	*
15	N		server	1	10,00,000,00						10,000,000.00		10,00,000
12	GIS	ArdGIS Server server	server	1	1,50,00,000						1,50,00,000		1,50,00,000
		Net total			1,61,07,500	33,07,500	33,07,500	33,07,500	33,07,500	33,07,500	1,60,00,000	1,65,37,500	3,25,37,500

8.1.5 Cloud Cost

Table 35: Cloud Cost (DC, DR and Staging)

menumen	E a	Configuration	Count	Monthly root (%)	one month anily far carring & UAT	Go-Sue, Full VMCDART	Year Z	Tear 3	,	Year S	TotalCost
0	Web Server	TWA, 16-CPU, 6-418 RAM, 70 GB sterrage, Linux, 100 GB ad 08 oral storage.	~	21,558	_	2,38,696	5,17,392	5.17,392	5,17,392	5,17,392	23,40,822
Ų	App Serve:	TWN, 15vCPU, 6408 RAM, 70 08 statege, Linux, 100 08 additional storage	4	21,558	ů.		30,34,784	30,34,734	10,34,784	3	46,718,086
U	At Servert	IVM, 16xCPU, 6408 RAM, 70 GB storage, Linux, 100 GB additional storage	-	22,558	21,558	ш	5, 17, 392	5,17,382	5,17,392	\$17,192	23,40,822
u	Trimactional Db Server	TWV, 10xCPU, G4G8 RAM, 70 GB storage, Unus, 100 GB additional storage	4	21,558	21,558		30,34,784	30,34,7194	10,34,794	10,34,784	46,79,086
	Session Management Sener		~	21,558		ш	3,17,392	1,17,392	5,17,892	L	23,40,822
U	Reporting server	TVM, 164CRJ, 6458 RAM, 70 58 strrage, Lieux, 180 GF additional storage		21,558		ш	5,17,390	5,17,392	5,17,392	5,17,392	m
U	Poporting Db	TMM, 164CMJ, 6408 RAM, 70 08 sterage, Linus, 100 08 additional storage	~	21,558		ш	5,17,392	5,17,392	5,17,392	L	1
U	Middleware server (AFI)	INM, 15vCPU, 64(8 RAM, 70 08 statege, Linux, 100 GB additional storage	_	21,558	21,558		5,17,390	5,17,382	5,17,392	_	23,49,822
0	Discurrent Management Server 1985, 15vCPU, 6408 BAM,		-		21.554		5, 17, 192	\$17,392	5,17,302		23,45,822
0	US Server		~				3,25,008	3,23,008	3.15,008		
0	Storage	20 TB to start with and 1.5 increase per year)	-	33,230	38,200	1,49,750	3,68,640	4,37,750	5,06,880	5.78,000	20,72,340
(30) (6)			м		2,40,164	12,57,530	63,84,560	04,54,080	65,23,300	68,92,120	2,93,53,284
nvenument	Bess	Configuration	VM	Merelish cont (Na.)	Year 1 (Rt) one most carfe& UA	Year 1 (H2) Go-the, Full VM Count	Year 2	Year 3	Year 4	, E	TotalCost
ac ac	Web Server	TYN, 09-CPU, 4958 BAM, 7008 Harage, Unio, 100 GB additional stange	-	13.542		81,252	1,62.504	162564	1,62,504	162304	2,44,810
THE STREET	App Server	VM, OBJCPU, 48CH RAM, 70GB storage. Uma, 100 GB additional storage	^	11,541	13.542	1,42,504	3,25,008	3,23,008	1,25,008		34,79,078
20	At Server	1YM, OSACPU, 4859 RAM, 7058 storage, Linux, 509 GR additional stanger	_	13,542	18342	8032	1,62,934	1,62,554	1,62,504	152,934	7,44,810
×	Transactional Ob berver	1YM, 1640PC, 6458 BMM, 70 68 Stange, Linux, 108 GB additional storage	~	21,568		238,696	5,17,392	5,12,392	5,17,392		23,49,822
*	Session Management Server	TYM, 164CPU, 640B 84M, 70 08 storage, Linux, 100 08 additional storage	_	21,558	21.558	1,29,348	258,696	258,696	2,58,696	2.58,696	11,88,490
	Reporting server	IVM, 16vCPU, 49CB RAM, 70 UB stange, Linux, 100 GE addlessed storage	1	19,830	19,830	1,18,380	2,37,560	2,87,960	2,37,960	2,37,960	10,50,650
*	Reporting Db	TVM, 16vCPU, ABCSFRAM, 70 UB storage, Linux, 100 GB additions intorage	-	ODE/CE	00000	1,11,110	1,37,560	2,57,980	2,37,960		10,50,450
	Document/Management Server (TW), 10xCPU, 43GB RAM,		_	19,810	19,630	1,18,380	2,37,560	2,37,960	2,37,960		10,90,450
	Middlewers server (AFI)	IVM, GIACRU, SZGR RAM, 70 GB stange, Linux, 100 GB addisons/stange	1	113.814			1,41,768	3,45,750	1,41,758		8,48,770
×	dis Server	DVM, BACHU, 4808 RAM, 1080 storege, Uman	_	13,562	13.542	10,252	1,62,504	1,62,504	1,62,504	1,52,504	7,44,010
	Sorage -	Storage (20 TB to start with and 1.5 Increase per year)	_	13,200	33,230	1,48,760	3,688,640	4,37,750	\$39,880	5,74,000	30,772,340
34 (DRS)			13		2,01,788	13,71,898	28,12,896	38,82,016	29,511.86	30,70,356	1,32,39,980
méternest	Ren	Configuration	Count	Menthy cost (%)	Year 3 (H1)	Year 1 (HZ) Year 2	Year 2	Year 3	Year 4	Year S	TotalCost
Bright Con	Web Server	THM, SACPLU, 480B RAM, 7095 storage, Linus	-	11,156	78,948	78,948	1,57,896	1,57,896	1,57,896	1,57,886	7,850,480
Bullergoa	App Server	TWM, BACPLU, 4858 RAM, 709G storings, Union		11.158	78.948	18.94条	1,57,896	1,57,896	157,896	157,896	7,89,480
Bright Con	Dumachonal Ob Server	THAI, 15vCPU, 4303 RAM, 70 08 Strings, Linux, 100 GB addisonal stange	-	19.830	1,18,980	1,18,980	2,37,360	2,37,960	2,37,960	233360	11,89,800
Bulging/oa	Peparting server	THM, SACPU, 480B RAM, TRBG storage, Grave	-	11,158	78,948	78,348	3,57,896	1,57,890	157,896	1,57,886	7,85,480
wildiging	Reporting Db	TVM, DIACPU, SZGII RAM, 70 GB vtorage, Linux, 100 GB additional storage	-	11,1114	70,035	70,059	1,41,718	1,61,718	141,758	141,118	7,08,840
Militaline	Middleware server (API)	TWA, BACPU, 4858 MAM, 7045 storuge, Union	-	11.158	78,348	78.948	1,57,896	1,57,886	1,57,896	157,896	7,69,485
the letter of the same			1		40.00	0.00.000	46.55.213	4611111	2017.00	1	44 44 440
Bullet Auch in	94				3,479,838	4	40,44,444		10,110,114	10,110,114	36, 30, 36
ocal.			•		3,41,618	30,75,104	3,00,001,166		ALIDAZARIN LONZONIN	1.08.2.1.080	4,74,43,784

Table 36:Helpdesk Cost

20	v. Help Desk (Outsourced mode per seat)	Position	Duration(Months)** Person Month Rate	Person Month Kate	Cost Years	Cost Year 2	Cost Year 3	Cost Year 4 Cost Year 5		Total
	Team Leader	1	35	80,000	7		-	30,79,869	11,23,064	
n	Sr Helpdesk Executive		3	000'00	3,60,000		7,78,752	5,09,902	8,42,298	35,39,752
- :	Jr Helpdesk Executive	4	75	50,000	_	24,96,000	25,95,840	36,99,674	28,07,561	#
	Documentation Expert	1	54	000'02	4,20,000			9,44,886	9,82,681	
	Total	4	216		24,60,000	100	53,21,472	53,21,472 55,34,331	57.55,704	2,41,88,307

8.1.7 CPC Manpower Cost

Table 37: CPC Manpower Cast

S. No	CPC	Positio	on Duration (Mouth)	Person Month Rate	th Rate Cost Year 1 Cost Year 2	Cost Year 2	Cost Year 3	Cost Year 4	Cost Year 5	Total
_	Senior Manager	1	54	2,00,000	12,00,000	24,96,000	25,95,840	26,99,674	19,07,661	1,17,99,174
ėi.	Sr EIA Expert	ÇI.	54	1,50,000	18,00,000	37,44,000			42,11,491	1,76,98,761
67	Junior EIA Experts	cu	54	1,25,000	15,00,000	31,20,000	32,44,800		35.09.570	1,47,48,968
	Forest & Wildlife Experts	ęu	54	1,50,000	18,00,000	37,44,000		40,49,510	42,11,491	1,76,98,761
in	Researchers	cu	24	1,00,000	12,00,000	34,96,000			18,07,661	1,17,99,174
	Total	6	270		75,00,000	1,56,00,000	1,62,24,000	1,68,72,960	1,75,47,878	7,37,44,838

"Inflation - 4%

** CPC Expected To-Be setup after 6 months

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8.1.8 Project Management Cost

Table 38: Consulting PMU Cost

	70	80	80	85	85	53	8
Total	81,95,90	55.08,4	55,08,480	***	1,75,48,885		
Cost Year 5			*		37,90,342		
Cost Year 4		9	30	36,44,559	36-44-559	40,76,507	1.13.67.626
	28	ď	8	35.04,384	35.04.384 36.44.559	39,19,718	1.09.28.486
Cost Year 2 Cost Year 3	41,78,304	18,84,480		33,69,600	33,69,600	-	13.69.600 1.84.55.424
CostYearı	40,17,600	-	36,24,000	32,40,000	32,40,000	36,24,000	2.13.69.600
Person Month Rate Cost Year 1	3,34,800	3,02,000	3,02,000	2,70,000	2,70,000	3,02,000	
Duration(Mouths)	24	18	18	09	99	99	210
Posizion		1	1	11 11	1	1	9
stral PMU	rogram Manager	olution Architect	SPR Expert	Gov programme suppor	CB/CM/IEC & BCC	MIS Consultant	Fotal

"Inflation - 4%

8.1.9 State Coordination & Support Cost

Table 39:State Co-ordination & Support Cost

S No. Role	No. of Reserv	ron Destion(to month	Person Menth Kate(Yrt)	Petron Mineth Rate(Trz)	Person Menth Rate(Yq)	Person Mooth Rath(Trq)	Person Merch Rate(YiS)	Cost Year 10	SetTerz	Cost Year 3	Cat Year 4	Coets	09EX
1 Helpfesk Executive (EC / CRZ)	35	48	40,000	41,600		44,995	46794		174,72,000	1,81,70,850		1,9653,64	
1 Helphek Executive for PC (MeEPCC)	10	48	45,300	46,800	48,621	9.4	H925		8414,000	87,56,950	Str.1298	H2585H	\$47,74,213
1 Helpdesk Executive for IRO for PC WL	90	100	45,000	46,800	-	30,669	#905		001'01'90'1	138,97,216		1,20,00,749	
Total Cost	99								3,65,66,400	3,80,29,036	38	4,11,32,227	-

"inflation at 4%

** State Coordination Helpdesk Expected To-Be setup after 12 months

Development Centre Cost 8.1.10

Table 40: Development Centre Cost

S. No.	Seating Cost	Seats Required	tired Seat Per Month Cos Cost Year 3 Cost Year 3	Cost Year 1	Cost Year 3	Cost Year 3 Cast Year 4	Cost Year 4	Cost Year 5 Total	Total
	Development Team (50% strength at NIC IT Park)	50	16,000	49,92,000					49,92,000
, cu	App Support Team (50% strength at NICIT Park)	18	16,000		34,56,000	34,56,000	34,56,000	34,56,000	34,56,000 34,56,000 34,56,000 34,56,000
Sub-To	tal (Seating)	4		49,92,000	34,56,000	34.56,000	34.56,000	34,56,000	1,88,16,000

9. Annexure - Conditions Catalogue

9.1 Assessment of EC Conditions

For MoEFCC, effective compliance monitoring is a major challenge. As per current practice, the PP needs to file a compliance report twice in a year, against the conditions mentioned in the EC. To understand the real challenges in effective compliance monitoring, a diagnostic approach for the EC and the Compliance reports filing was followed. A quick assessment helped in identifying the following issues.

- Many conditions are very subjective, non-standardized and not uniquely identifiable for the sector
- 2. Most of the conditions are not quantifiable, Boolean or binary
- There are many conditions which need To-Be fulfilled over a period (e.g. plantation etc.), but such conditions don't specify measurable interim milestones, for effective compliance monitoring

An effective approach to tackle these challenges for defining the conditions and effective compliance monitoring will be to standardize and codify the conditions also make them quantifiable, Boolean, binary or milestone based.

To assess the feasibility and effectiveness of this approach, a sample of conditions reviewed and was analysed, as follows:

The EC conditions for all 8 sectors were reviewed to verify the opportunity for standardization and mapping the general conditions common to all sectors. Following are the key observations.

- The General Condition Catalogue has total 1773 conditions for all sectors and the following are considered as duplicate conditions.
 - 1.1. Same text is available in more than one conditions.
 - 1.2. More than one conditions interpret the same meaning, only the variation of words is present which make them distinct.
- 2. No. of white spaces available.
- After applying the above rules for the duplicate data processing, total 770 conditions
 are found as duplicate. However, more duplicates can be found after validating the
 remaining conditions.
- To validate the concept of Sector Specific conditions, following sectors were assessed:
 Industrial Projects 1 and Industrial Projects 2

- 5. Followed by 2 headings
 - 5.1. Chemical Based Projects
 - 5.2. Integrated Iron & Steel Plants
- 6. Under those two headings there are 6 subheadings
- Under those 6 subheadings, there are total 117 conditions which can be reduced to 39 after removing the duplicates

There may be possibility of merging some of the specific conditions can be with general conditions, which reduced the data redundancy.

9.2 Conditions Catalogue

Based on above assessment, it is suggested that a Conditions Catalogue can be codified where both general and specific conditions can be included and as per environment impact assessment, their permissible values can be determined.

This conditions catalogue needs To-Be developed with a standard coding convention for all the conditions specified to EC projects, which can be further used as a unique identifier for the conditions.

For validation of the concept, the following parameters are considered are -

- 1. Category Id
- 2. Condition Type
- 3. Heading Id
- 4. Subheading id
- 5. Condition Id

Category Id:

Table 41: Condition Catalogue Category Id

Id	Category Id	Category name
1	IN	Industrial Projects – 1
2	NM	Non-Coal Mining
3	TH	Thermal Projects
4	RI	River Valley and Hydroelectric Projects
5	MI	Infrastructure and Miscellaneous Projects + CRZ

7	NC	New Construction Projects and Industrial Estates
10	ш	Industrial Projects – 2
11	CM	Coal Mining

Condition Type:

EC condition can be further divided into 2 types,

General(G)

These are the standard conditions applicable to all the projects under given sector / subsector

Specific(S)

These conditions are specific to the projects.

Heading Id:

All the categories are divided into several headings according to the flow of project, which can be further divided based on condition type.

General Conditions:

- i. Total 26 headings are available
- ii. Generate Heading code of length 2 by using heading id, only numerical digits are allowed

Table 42: Condition Catalogue Heading Id (General)

Id	Heading Id	Heading	Condition type
1	01	Standard EC Conditions for Integrated Iron and Steel Plants	GENERAL
2	02	Standard EC Conditions for Coke Oven Plants	GENERAL
3	03	Standard EC Conditions for Sponge Iron (DRI) Plants	GENERAL
4	04	Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills	GENERAL
5	05	Standard EC Conditions Iron Ore Palletization Plants (including CPP)	GENERAL
6	06	Standard EC Conditions for Aluminium Smelters	GENERAL
7	07	Standard EC Conditions for Aluminium Refineries	GENERAL

Id	Heading Heading		Condition type
8	08	Standard EC Conditions for Asbestos Based Industries	GENERAL
9	09	Standard EC Conditions Integrated Cement Plants	GENERAL
10	10	Standard EC Conditions for Cement Grinding Units with Captive Power Plants	GENERAL
16	16	Standard EC Conditions for Coal Washery	GENERAL
17	17	Standard EC Conditions for Petroleum Refining Industry, Petro-chemical complexes and Petrochemical products and petrochemical based processing [applicable to item 4(a) Petroleum refining industry; 5(c) Petro-chemical complexes (industries based on processing of petroleum fractions & natural gas and/or reforming to aromatics); 5(e) Petrochemical products and petrochemical based processing such as production of carbon black and electrode grade graphite (processes other than cracking & reformation and not covered under the complexes)]	GENERAL
18	18	Standard EC Conditions Distillery sector (applicable to item S.N. 5(g)- Distilleries & 5(j) - Sugar industry)	GENERAL

Specific Conditions:

- i. Total 2 headings are available
- Generate Heading code of length 2 by using heading id, only numerical digits are allowed

Table 43: Condition Catalogue Heading Id (Specific)

ld Heading Id		Heading	Condition type		
	01	Integrated Iron and Steel Plants	Specific		
2	02	Chemical Based Project	Specific		

Subheading Id:

The categories shall be divided into headings and then each heading would be further divided into subheadings, which can be specified as per condition type.

General Conditions:

- i. Total 275 Subheadings are available
- Generate Subheading code of length 3 by using Subheading id, only numerical digits are allowed.

Table 44: Condition Catalogue Subheading 1d (General)

ld	Subheading Id	bheading Condition Subheading			
1	001	Statutory compliance	GENERAL		
2	002	Air quality monitoring and preservation	GENERAL		
3	003	Water quality monitoring and preservation	GENERAL		
4	004	Noise monitoring and prevention	GENERAL		
5	005	Energy Conservation measures	GENERAL		
6	006	Waste management	GENERAL		
7	007	Green Belt	GENERAL		
8	008	Public hearing and Human health issues	GENERAL		
9	009	Corporate Environment Responsibility	GENERAL		
10	010	Miscellaneous	GENERAL		
11	011	Statutory compliance	GENERAL		
12	012	Air quality monitoring and preservation	GENERAL		
13	013	Water quality monitoring and preservation	GENERAL		

Specific Conditions:

- i. Total 6 Subheadings are available
- Generate Subheading code of length 2 by using Subheading id, only numerical digits are allowed

Condition 1d

General Conditions:

- Total 1773 Conditions are available
- Generate Condition code of length 4 by using condition id, only numerical digits are allowed
- Duplicate check is applied on all the condition, after this only 1003 conditions are left.

Table 45: Condition Catalogue Condition Id (General)

Id	Condition Id	Condition
199	0001	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
201	0002	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
200	0003	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule-I species in the study area)
1127	0004	The project proponent shall report to the State Pollution Control Board about the compliance of the prescribed standards for all discharges from the Industrial Area into the sea.

Specific Conditions:

- i. Total 117 Conditions are available
- Generate Condition code of length 2 by using condition id, only numerical digits are allowed

 Duplicate check is applied on all the condition, after this only 39 conditions are left.

Table 46: Condition Catalogue Condition Id (Specific)

Id	Condition Id	Condition
1	01	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full- fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
2	02	Fugitive emissions shall be controlled at 99.98% with effective chillers. Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology.
3	03	Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
4	04	The spent wash/other concentrates shall be incinerated as proposed.
5	05	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking To-Be allowed outside on public places.
6	06	All the BF slag shall be either sold to cement plant for making granulated cement or used for road construction.
7	.07	All the coal fines, char from DRI plant and washery rejects if any shall be utilized in FBC boiler of power plant and no char shall be used for briquette making or disposed of anywhere else. FBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning

8 08	All the mill scrap and skull/scrap shall be reused in BOF plant. Tar sludge, BOD plant sludge shall be recycled for coke making by mixing with the coal charge. Chromium sludge shall be disposed in a HDPE lined secured landfill. Waste oil, all the other solid waste including broken refractory mass shall be properly disposed of as per HW Rules of 2016.
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Conditions are duplicate as:

- i. Same text repeated in more than one rows
- ii. Substring matches with other condition which interpret it duplicate
- iii. Correct the spellings of some words in condition, interpret as duplicate
- iv. Remove the White spaces, interpret as duplicate

Table 47: Rules for Coding Condition Catalogue (General)

	R	ules for Codi	ng Conditi	ion Catalo	gue
Sr. No.	Values	General	Data Type	Pattern	Remark
1	Category Sector	We have total 8 unique sectors available that's why consider the length of sector To-Be 2	Character	AA	
2	Condition Type	For General , type would be G	Character	A	
3	Heading	Consider 26 headings for general type projects so, maximum 2 length of digit is used as a heading code	Integer	99	
4	Subheading	Consider 275 subheadings for general type of projects so, maximum 3 length of digit	Integer	999	Duplicate subheadings are available, which can be further reduced

	is used as a sub heading code			
Condition	Consider 1773 conditions for general type of project so, maximum 4 length of digit is used as a condition code	Integer	9999	Conditions are duplicate as: 1.Same text repeated in more than one rows 2.Substring matches with other condition which interpret it duplicate 3.Correct the spellings of some words in condition, interpret as duplicate 4.Remove the White spaces, interpret as duplicate

Table 48: Rules for Coding Condition Catalogue

	Rules for Coding Condition Catalogue							
Sr. No.	Values	Specific (only for Module)	Data Type	Pattern	Remarks			
1	Category Sector	We have total 8 unique sectors available that's why consider the length of sector To-Be 2	Character	AA				
2	Condition Type	For Specific , type would be S	Character	A				
3	Heading	Consider 2 headings for specific type of projects so, maximum 2 length of digits used as a heading code	Integer	99				
4	Subheading	Consider 6 subheadings for specific type of projects so, maximum 2 length of digits used as a sub heading code	Integer	99				
5	Condition	Consider 40 conditions for specific type of projects so,	Integer	99	Duplicate conditions present, which can be further reduced			

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maximum 2 length of digits used as a	
condition code	

Conditions Coding Convention -

Pattern: Category Code + Condition Type + Heading Code + Subheading Code + Condition Code

The above convention can be used in the system as follows.

Table 49: Condition Catalogue

Condition	Conditio n id	Conditio n Type	Subheadin g id	Headin g id	Categor y id	Standard Code
Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticultur e.	40	Specific	02	02	Ю	IDS02024 0
Zero Liquid Discharge shall be ensured, and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening	40	Specific	01	01	ш	IDS010140

9.3 Compliance Analysis

As mentioned above, effective compliance monitoring is a major challenge for MoEFCC. To address this, a deeper analysis of a sample of Compliance Report was conducted. Based on analysis, a Compliance Report structure is advised, which can be later standardized for each sector. The purpose of defining this structure is to make the compliance report in sync with the conditions defined under EC granted, so that the compliance against each condition can be explicitly monitored.

Following is the analysis of proposed Compliance Report structure:

Existing conditions are open ended which can be further classified as Qualitative & Quantitative. In the need of the conditions being measurable as numeric or Boolean or milestone based, the monitoring and tracking of the conditions for compliance is a challenge.

 Some of the conditions contain the data about raw materials, chemicals which can be better classified as Quantifiable which is measurable

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- Some of the conditions contain descriptive data which can't be measurable can be classified as Boolean (Yes / No)
- iii. Some of the conditions like plantation etc. can be made milestone based e.g.
 - a. Input Type would be YES or NO

Table 50: Qualitative Condition Compliance Report

Condition #	Specific Condition	System Generate d Value (Editable)	Input Type	Unit	Rem
Stack monitoring facility to monitor gaseous emissions	IF (CEMS installed & Low NOx burner installed) then fil YES or NO	Yes	Yes or No	Drop Down	Text Field

- b. Input Type would be filled by numerical values (Standard Value)
- c. Units represent in drop down

Table 51: Quantifiable Condition Compliance Report

Condition #	Specific Condition	System Generated Value (Editable)	Input Type	Unit	Remarks
Comply with GSR 612, check	Put the values for SO ₂	30	Fill Numerical Value	mg/Nm ³	Text Field
Values of SO2 and NOx	Put the values for NOx	40	Fill Numerical Value	mg/Nm³	Text Field

Table 52: Unit Representation

Condition #	Specific Condition	System Generated Value (Editable)	Input Type	Unit	Remarks
Secondary fugitive emissions shall be	CPCB Environmental Guidelines: 1.Transfer points & Storage Silos are provided: YES or NO	Yes	Yes or No	Drop Down	Text Field
controlled and should	2.Sheds are constructed : YES or NO	Yes	Yes or No	Drop Down	Text Field
be within	3.Flyash handling : YES or NO	Yes	Yes or No	Drop Down	Text Field
the prescribed limits	4.All raw material transfer conveyor are covered with GI sheet: YES or NO	Yes	Yes or No	Drop Down	Text Field

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5.Road sweeper are deployed and good housekeeping: YES or NO	Yes	Yes or No	Drop Down	Text Field	
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9.4 Annexure - Forms

FORM 1

Details required for submitting Fresh TOR Application

Basic Profile

- 1. Name of the proponent (auto fill)
- 2. Name of applicant (auto fill)
- 3. Contact person (auto fill)
- 4. Designation (mito fill)
- 5. Telephone No. (mito fill)
- 6. Mobile No. (muto fill)
- 7. Fax No. (auto fill)
- 8 Email Address (auto fill)
- 9. Website (if any) (auto fill)
- 10. Pin code (auto fill)
- 11. State (auto fill)
- 12. District (auto fill)
- 13. Town/Village (auto fill)

Project Profile

- 1. Name of the project
- Project Sector (Coal mining, Industrial projects, Industrial projects-2, Infrastructure and Miscellaneous Projects + CRZ, New Construction Projects and Industrial Estates, Non-Coal Mining, Nuclears Projects, River Valley and Hydroelectric Projects, Thermal Projects)
- 3. Project Cost (In Lacs)
- 4. Location of the Project
- 5. Shape of the Project Land (Block (polygon), Point, Strip)

When an option is selected

- 5.1 Upload GPS file (KML, KMZ only)
- 5.2 Upload copy of Survey of India Toposheet (pdf only- As Annexure Survey of India 201 Toposheet) (Scale 1:50,000)

- 6. Site alternative under consideration (If any) (Upload site alternatives)
- Brief summary of project (Upload at least one page document, Upload pdf only and attach
 tt as Amexice-Brief summary of project)
- Does your project location falls under out of any following areas(Ghaziabad (UP), Indore
 (M.P), Tharzuguda (Orizza), Ludhiana (Punjob), Panipat (Haryna), Patancheru-allaram
 (A.P.), Singraulli(UP and MP), Vapi(Gugarat), None of above Areas)
- Number of states in which project will be executed (e.g. 1,2,3,4,5,6)

If I is selected

9.1 Main State of the project.

If other than 1 is selected

- 9.2 Other State (Multiple Entries allowed)
- (If the project to be executed, does not belong to any state, then state category could be selected as 'Other')
- 9.3 State
- 9.4 Distract
- 9.5 Tehnil
- 10. Town/Village (Name of more than one town may be entered by separating with ',')
- Plot/Survey/Khasra No.(Name of more than one Plot/Survey/Khasra may be entered by separating with ;')
- 12. Project/activity in the schedule (changes with Project Sector)

If Project Sector is Coal mining

12.1 Sub Activity has following options (Open Cast Mining, Underground Mining, Open Cast Cum Underground Mining)

If Project Sector is Industrial Projects -2

12.2 Sub Activity has following options (Offshore oil & Gaz Exploration, Onshore oil & Gaz Exploration)

If Project Sector is River Valley or Hydroelectric Projects

- 12.3 Sub Activity has following options (River, Hydro)
- Project Type (New, Expansion under para?(ii), Modernization under para?(ii), Change of product mix under para?(ii))

If Expansion or Modernization is selected,

- 13.1 MoEFCC file number(Previous EC)
- 13.2 Existing capacity area etc.
- 13.3 Date of Previous EC
- 13.4 Upload Previous EC letter(only pdf As Annexure -Previous EC letter)

If Project Sector is Coal mining or Non-Coal Mining.

- 13.5 Upload approval of mining plan.
- 14. Category of project i.e. 'A' or 'B'
- 15. Does it attract the general condition? (Yes/No)

If "Yes" is selected, upto four options can be selected

- 15.1 Protected areas notified under the wildlife (Protection) Act, 1972.
- 15.2 Critically polluted areas as notified by the Central Pollution Control Board(CPCB) from time to time
- 15.3 Notified Eco-sensitive areas
- 15.4 Inter-State boundaries and international boundaries
- 16. Does it attract the specific condition? (Yes/No)

If "Yes" is selected, following option can be selected

16.1 If any Industrial Estate/Complex / Export processing Zones /Special Economic Zones/Biotech Parks / Leather Complex with homogeneous type of industries such as Items 4(d), 4(f), 5(e), 5(f), or those Industrial estates with pre -defined set of activities (not necessarily homogeneous, obtains prior environmental clearance, individual industries including proposed industrial housing within such estates /complexes will not be required to take prior environmental clearance, so long as the Terms and Conditions for the industrial estate/complex are complied with (Such estates/complexes must have a

clearly identified management with the legal responsibility of ensuring adherence to the Terms and Conditions of prior environmental clearance, who may be held responsible for violation of the same throughout the life of the complex estate

If the above option is selected,

16.2 Status of the Environmental Clearance to the Project (EC Obtained, EC under process, EC application yet to be submitted)

If EC Obtained is selected.

- 16.2.1 MoEFCC File No.
- 16.2.2 Upload a copy of Environmental Clearance to the Project (spload pdf only as Amexure-EC letter)
- 16.2.3 Date of grant of Environmental Clearance to the Project
- 17. Is there any litigation pending against the project? (Yes/No)

If "Yes" is selected.

17.1 Attach court order(s) given in this regard (pdf only at Annexure-litigation)

Undertaking

- 1. Name (moto fill)
- 2. Designation (moto fill)
- 3. Company (auto fill)
- 4 Address (auto fill)

Project Profile

- 1. Nearest railway station
- 2. Distance from the project site (in km) (Nearest Rathway Station)
- 3 Nearest Airport
- 4. Distance from the project site (in km) (Nearest Airport)

- 5. Nearest Town/City/District
- 6. Distance from the project site (in km) (Nearest Town City District)
- 7. Details of alternative sites examined? (Yes/No)

If "Yes" is selected,

7.1 Upload details (Upload pdf only and attack it as Anneurre-alternative sites examined)

8. Whether part of interlinked projects? (Yes/No)

If 'Yes' is selected.

8.1 Whether separate application of interlinked project has been submitted? (Yes/No)

If "Yes" is selected.

- § 1.1 MoEF file number
- 8.1.2 Date of submission

If "No" is selected.

8.1.3 Region

Whether the proposal involves approval/clearance under the Forest (Conservation) Act,

1980? (Yes/No)

If "Yes" is selected.

- 9.1 Status (In-Principle(Stage-I) Approval Obtained, Final(Stage-II) Approval Obtained, Forest Clearance Under Process, Application for Forest Clearance yet to be submitted)
- 10. Whether the proposal involves approval/clearance under the wildlife (Protection) Act,

1972? (Yes/No)

If "Yes" is selected.

- 10.1 Status (Wildlife clearance obtained, Wildlife clearance under process, Application for Wildlife clearance yet to be submitted)
- Whether the proposal involves approval/clearance under the C.R.Z notification, 2011?
 (Yes/No)
- Whether there is any Government Order/Policy relevant/relating to the site? (Yes/No) If "Yes".

- 12.1 Upload Order Policy (only pdf, Attach as Annexure-order policy)
- 13. Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up? (Yev/No)

If "Yes".

- 13.1 Name of the court
- 13.2 Sub court
- 13.3 Case no.
- 13.4 Orders Directions of the court , if any and its relevance with the proposed project

Activity(II)

- Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)
- 1.1 Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)(Yes/No) (If Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.2 Clearance of existing land, vegetation and buildings? (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.3 Creation of new land uses? (Yes:No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.4 Pre-construction investigations e.g. bore houses, soil testing? (Yew No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.5 Construction works? (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.6 Demolition works? (Yes:No) (if Yes, Details thereof (with approximate quantities:rates, wherever possible) with source of information data)

- 1.7 Temporary sites used for construction works or housing of construction workers? (YewNo) (if Yez, Details thereof (with approximate quantities:rates, wherever possible) with source of information data)
- 1.8 Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.9 Underground works including mining or tunnelling?(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.10 Reclamation works?(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.11 Dredging?(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.12 Offshore structures? (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.13 Production and manufacturing processes? (Yes:No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.14 Facilities for storage of goods or materials? (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.15 Facilities for treatment or disposal of solid waste or liquid effluents? (Yes/No) (If
 Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of
 information data)
- 1.16 Facilities for long term housing of operational workers? (Yeu'No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.17 New road, rail or sea traffic during construction or operation? (Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 1.18 New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc.?(Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)

- 1.29 Introduction of alien species? (YevNo) (if Yez, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.30 Loss of native species or genetic diversity? (Yes/No) (if Yez, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 1.31 Any other actions? (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are nonrenewable or in short supply)
- 2.1 Land especially undeveloped or agricultural land (ha) (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 2.2 Water (expected source & competing users) unit: KLD (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 2.3 Minerals (MT) (Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 2.4 Construction material stone, aggregates, sand / soil (expected source MT) (Yes/No) of Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 2.5 Forests and timber (source MT) (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 2.6 Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW) (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 2.7 Any other natural resources (use appropriate standard units) (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)

- 3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.
- 3.1 Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 3.2 Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases) (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 3.3 Affect the welfare of people e.g. by changing living conditions? (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 3.4 Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc. (Yes No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 3.5 Any other causes(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data).
- Production of solid wastes during construction or operation or decommissioning (MT/month)
- 4.1 Spoil, overburden or mine wastes (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 4.2 Municipal waste (domestic and or commercial wastes)(Yes/No) (if Yes, Details thereof (with approximate quantities vates, wherever possible) with source of information data)

- 4.3 Hazardous wastes (as per Hazardous Waste Management Rules) (Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 4.4 Other industrial process wastes(Yes/No) (if Yes, Details thereof (with approximate quantities trates, wherever possible) with source of information data)
- 4.5 Surplus product(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 4.6 Sewage sludge or other sludge from effluent treatment(YevNo) (if Yez, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 4.7 Construction or demolition wastes(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 4.8 Redundant machinery or equipment(Yes/No) (if Yes, Details thereof (with approximate quantities) rates, wherever possible) with source of information data)
- 4.9 Contaminated soils or other materials(Yes/No) (if Yes, Details thereof (with approximate quantities) rates, wherever possible) with source of information data)
- 4.10 Agricultural wastes (Yes/No) (if Fez, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 4.11 Other solid wastes(Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 5. Release of pollutants or any hazardous, toxic or noxious substances to air(Kg/hr)
- 5.1 Emissions from combustion of fossil fuels from stationary or mobile sources (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 5.2 Emissions from production processes (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)

- 5.3 Emissions from materials handling including storage or transport (Yes/No) (If Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 5.4 Emissions from construction activities including plant and equipment (Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 5.5 Dust or odours from handling of materials including construction materials, sewage and waste(Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 5.6 Emissions from incineration of waste (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 5.7 Emissions from burning of waste in open air (e.g. slash materials, construction debris) (Yes/No) (If Yez, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 5.8 Emissions from any other sources(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 6. Generation of Noise and Vibration, and Emissions of Light and Heat
- 6.1 From operation of equipment e.g. engines, ventilation plant, crushers(Yes/No) (if Tex, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 6.2 From industrial or similar processes (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 6.3 From construction or demolition (YevNo) (if Yes, Details thereof (with approximate guarantees vates, wherever possible) with source of information data)
- 6.4 From blasting or piling (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)

- 6.5 From construction or operational traffic (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 6.6 From lighting or cooling systems (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 6.7 From any other sources (Yes/No) (If Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea
- 7.1 From handling, storage, use or spillage of hazardous materials (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 7.2 From discharge of sewage or other effluents to water or the land (expected mode and place of discharge) (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 7.3 By deposition of pollutants emitted to air into the land or into water (Yes/No) if Tex, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 7.4 From any other sources (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 7.5 Is there a risk of long term build-up of pollutants in the environment from these sources? (YevNo) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)

- Risk of accidents during construction or operation of the Project, which could affect human health or the environment
- 8.1 From explosions, spillages, fires etc. from storage, handling, use or production of hazardous substances(Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 8.2 From any other causes (Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)
- 8.3 Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc.)? (Yes/No) (If Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- Factors which should be considered (such as consequential development) which
 could lead to environmental effects or the potential for cumulative impacts with
 other existing or planned activities in the locality
- 9.1 Lead to development of supporting, lities, ancillary development or development stimulated by the project which could have impact on the environment e.g.
- Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)
- = housing development
- extractive industries
- supply industries
- o Other

(Yes/No) (if Yes, Details thereof (with approximate quantities rates, wherever possible) with source of information data)

- 9.2 Lead to after-use of the site, which could have an impact on the environment (Yes/No) (If Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 9.3 Lead to after-use of the site, which could have an impact on the environment (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)
- 9.4 Have cumulative effects due to proximity to other existing or planned projects with similar effects (Yes/No) (if Yes, Details thereof (with approximate quantities/rates, wherever possible) with source of information data)

Environmental Sensitivity

- Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value (Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- 2. Areas which are important or sensitive for ecological reasons Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests (Yes/No) (If Yes, Aerial distance (within 15km.) Proposed project location boundary)
- Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- 4 Inland, coastal, marine or underground waters (Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- State, National boundaries (Yes:No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- 6 Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)

- Defence installations(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- Densely populated or built-up area(Yes/No) (if Yes, Aerial distance (within 15km.)
 Proposed project location boundary)
- Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- 10 Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)(Yes/No) (If Yes, Aerial distance (within 13km.) Proposed project location boundary)
- Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)
- 12 Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)(Yes/No) (if Yes, Aerial distance (within 15km.) Proposed project location boundary)

PROPOSED TERMS OF REFERENCE FOR EIA STUDIES

- 1. Upload Proposed TOR File(Upload pdf only and attach it at Annexure- Proposed TOR File)
- 2. Upload scanned copy of covering letter(Upload pdf only)
- Upload Pre-feasibility Report(PFR)(Upload paf only and attach it as Annexure-Prefeasibility Report(PFR) File)
- Upload Additional Attachments if any (Only single pdf file) (Upload pdf only and attach to as Armesure-Additional Attachments File)

Form-2

APPLICATION FOR PRIOR ENVIRONMENTAL CLEARANCE

Table 53: Form 2 for Prior EC

	Details of Project	
a.	Name of the Project (s)	
b.	Name of the Company / Organisation	
c.	Registered Address	
d.	Legal Status of the Company	
	Joint Venture (Yes/No)	
e.	If Yes,	
-		
TAT.	(i) No. of JV Partners (Multiple Entries Allowed) ame of the JV Share of the JV Address of the Email Id of JV Mobile No. of	-
7.100	ame of the JV Share of the JV Address of the Email Id of JV Mobile No. of JV Partner JV Partner JV Partner	
+	Address for the correspondence	-
а	Name of the applicant	
b	Designation (Owner / Partner / CEO)	
	Address	
c.	Pin code	
	e-mail	
f.	Telephone No.	
g.	Fax No.	-
g.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006	
	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) /	
g.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b)	
g.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂)	
g.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂	
g.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects)	
a. b.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others	
д. а. b.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify	
a. b.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / 1.	
д. а. b.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of	
b.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of Product Mix under Para 7(ii))	
g. a. b. c. d.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of Product Mix under Para 7(ii)) Location of the Project	
g. a. b. c. d.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of Product Mix under Para 7(ii)) Location of the Project Plot / Survey / Khadra No.	
g. a. b. c. d. e.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of Product Mix under Para 7(ii)) Location of the Project Plot / Survey / Khadra No. Village	
g. a. b. c. d.	Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006 Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f) / 7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b) Category (A/B ₁ /B ₂) If B ₁ or B ₂ Reason for application at Central Level / State level (in case of B ₂ projects) If Others Please Specify EAC concerned (for category A Projects only) (Coal Mining / Non-coal Mining / Thermal / River Valley & Hydro / Industry-I / Industry-II / Infrastructure-I / Infrastructure-II / Nuclear & Défense / CRZ New / Expansion / Modernization / One Time Capacity expansion (only for Coal Mining) / Expansion under Para 7(ii) / Modernization under Para 7(ii) / Change of Product Mix under Para 7(ii)) Location of the Project Plot / Survey / Khadra No.	*

	f.	Pin Code				
	g.	Bounded Latitude	es (North)			
	3000	From	1272			:
	2	To				
	h.	Bounded Longitu	des (East)			7.7.
		From				:
		To	4/474			:
	i.	Survey of India T	oppo Sheet No.			1
	j.	Upload Toppo Sh	eet File (Upload	l pdf only)		1
	k.			is Sea Level (AMSL)		:
	1.	Upload (kml) File	(Upload kml o	nly)		
	m.	Distance of Neare	st HFL from the	e project boundary with	in the study area	
	n.	Seismic Zone (Zo				:
	Whe			ltiple States (Yes / N	(o)?	
	If Ye	es .				
	a.	Number of States	in which Project	t will be Executed		
		(e.g. 1,2,3,4,5,6)				
	b.	Main State of the	Project			
	c.	Other State (Muli	tiple Entries All	owed)		
					te, then state category could	
		be selected as 'Ot	her')			
	Sta	te	District	Tehsil	Village	•
		050		141111000000		
		3				
	Deta	ils of Terms of R	eference (Tol	(3)		
	a.		the district the found is the colored transmitted to the Parachel Selection.	bmitting application (\)	(es / No)?	
		If Yes			,	
	b.	Date of issue of T	oR / Standard T	oR.		
	c.	MoEF&CC / SELA		37.73.7		
	d.	Upload ToR lette				
		ils of Public Con				
	a.	the state of the s		om Public Hearing (Yes	s/No)?	
		If yes,		om t work treating (ac	7.507.	
		Reason				
	b.	Supporting Docu	ment (upload p	df onlu)		
	c.			g available (Yes/No)?		3
\rightarrow	-	If No.	1100001100111	g arrange (a cop a cop a		
	d.	Reason thereof				
	144	Supporting Docu	ment (unload n	df only)		
		If Yes,	шет (проста р	ij onigj		
	e.	Date of Advertise	ment of Public I	Hearing		
\rightarrow	f.			(Upload PDF only)		12
					er of the rank of Additional	1
	g.	District Magistra			a of the falls of Audinoffal	*5
-		If yes	e or above (1es	range		
	h.		racidina Officer	(District Magistrate /	District Collector / Deputy	
	11-				District Collector / Deputy	
-	-	Commissioner / o			alish (Unland - Moute)	
	i.	Copy of duly sign	ed Froceedings	or raduc rearing in En	glish (Upload pdf only)	1

	j.	Date of	of Public Heari	ng				1	
	k.	Venue	of Public Hear	ring:				1	
		Villag	e						Т
		Tehsil							
		Distri	ct						
		State							
	1.	Distar	nce of Public H	earing Ven	ue from	the Proposed Project	(km)	1	
	m.	No. of	people attende	ed				1	
	n.	If the	multiple public	hearings	conduct	ed			
		Pl give	e the details of	each PH as	s per (e)	to (o) above			Т
	Deta	ails of P	roject Config	guration /	Produ	ct (Multiple Entrie	s Allowed)		
	a.	Wheth	her the project	is New (Ye	s/No?)				
		If yes,							
	b.	Projec	t Configuration	n					т
			Plant / Equipr	nent / Faci	ility	Configuration	Remarks if any		
		-					-		
_	c.	Produ	ıct					:	
	7235	duct	/ Activity	Quantit	Unit	Mode of Transpor	+ /	. 20	-
	40.500	pacity /	7 200110	у		Transmission Product	of		
	per I Mod com	Day(TCD e of Tran bination), Cubic Meter sport/Transmi of two or three	per Day, K ission of Pr modes, Ot	Glomete roduct (F thers)	rs(Km), Million Liters Road, Rail, Conveyor B	Liter per Day(KLD), To per Day(MLD), Others elt, Pipe Conveyor, Aria) I Ropes	vay,
	Exp	ansion					sion (only for Coal) 27(ii) / Change of Pro		
	a.	Detail	s of environme	ntal cleara	ınce grai	ated earlier			
		(i)	Date of issue	of environ	nmental	clearance		:	
		(ii)	MoEFCC / S	EIAA File	Number				
		(iii)	Upload EC L	etter					
	b.	Detail condi		report o	n comp	liance of earlier en	vironmental clearance		
		(i)		which cer	rtified re		ice of CPCB / SPCB / f earlier environmental	:	
		(ii)	Letter No					:	
	119	(iii)	Status of Cor	mpliance				:	

		(iv)	Certified repor (Including Mo	nitori					elearance o	conditions	:	
		(v)	Date of site vis	700 C.							÷.	
	C+	-	ls of Consent t									
		(i)	Whether Cons	ent to	operate ob	tained	(Yes/No)?					
	15.		If yes,									┕
		(ii)	Upload Copies pdf only)	s of a	ll Consent t	o oper	ate obtaine	ed since	inception	n (Upload		L
		(iii)	Date of issue									
		(iv)	Valid up to									
		(v)	57675551555 ac.									
		(vi)	Application No	0.			.000			00.00		
		(vii)	Upload Copy of	of Con	sent to ope	rate val	id as on da	te (Up	load pdf o	nly)		
	d.	Detail	s of Capacity Exp	pansic	on (Multiple	<i>Entrie</i>	s Allowed))				52
		100000000000000000000000000000000000000		tivity	Quantity l	From	Quantity	То	Unit			
	e.	Mode Ropev	of Transport/Tr vay, combination	oftw	o or three r	nodes,	Others)	l, Conv	eyor Belt,	Pipe Conv	eyor, A	rial
				The state of the s	San Control of the Co			confi	guration	any	ks if	
	Pro	ject Cos	t									
=	(vii) Application No. (viii) Upload Copy of Consent to operate valid as on date (Upload pdf only) d. Details of Capacity Expansion (Multiple Entries Allowed) Product / Activity Quantity From Quantity To Unit Mode of Tr (Capacity/Area) Unit:- (Tons per Annum(TPA), Mega Watt(MW), Hectares(ha), Kilo Litre per Day(KI Crushed per Day(TCD), Cubic Meter per Day, Kilometers(Km), Million Liters per Dothers) Mode of Transport/Transmission of Product (Road, Rail, Conveyor Belt, Pipe Converge Ropeway, combination of two or three modes, Others) Petails of Configuration (Multiple Entries Allowed) Plant / Equipment / Existing Configuration Configuration Configuration and after expansion Project Cost a. Total Cost of the Project at current price level (in Lakhs) b. Funds Allocated for Environment Management (Capital) (in Lakhs) c. Funds Allocated Towards ESC (Entrepreneur Social Responsibility) (in Lakhs) d. Funds Allocated for Environment Management Plan (EMP) (Recurring per Annum) (in Lakhs) Whether project attracts the General Condition specified in the Schedule of EIA Notification (Yes/No)? [provide name of WL/CPA/ESA/Inter-state boundary / International boundary and distance from the project If Yes a. Protected Area Notified Under the Wildlife(Protection) Act,1972						:	П				
	b.	Funds	Allocated for Er	viron	ment Mana	gemen	t (Capital)	(in Lak	hs)		2 :	
	c.	Funds	Allocated Towa	rds E	SC (Entrepr	eneur S	Social Resp	onsibil	ity) (in La	khs)	:	
	d.			iviron	ment Mana	gemen	t Plan (EM	P) (Re	curring pe	r Annum)	:	
	Not	ification rnation	a (Yes/No)? [p al boundary a	rovid	le name o	fWL/	CPA/ESA				•	
	9			d Une	ler the Wild	life(Pr	otection) A	ct 1072			:	
	0.000	Critica	dly Polluted Are							oard from	:	

	c.	Notified	Eco-Sensitive	Areas					:	T
	d.	Inter-Sta	te Boundaries	and Inte	rnational Boun	daries			:	
		ther proj fication (ie Spec	ific Condition	specified i	n the Schedule of E	IA	:	T
		If Yes				0-111				
	а.	Zones / I as Items activities individua complexe Terms at estates/c responsil environn througho	Biotech Parks / 4(d), 4(f), 5(d) (not necessal di industries in es will not be re and Conditions omplexes must bility of ensurant out the life of the	Leather 2), 5(f), rily homoluding equired to for the st have ring ad ce, who ne compl	Complex with or those Indus logeneous, obta proposed indu- to take prior en- industrial estat a clearly ider herence to the may be held re ex/estate	homogeneou trial estates ains prior en strial housin vironmental e/complex a atified mana e Terms an esponsible fo	ones / Special Economics type of industries sure with pre-defined set any ironmental clearance within such estates clearance, so long as the complied with (Sure complied with the legal Conditions of proper violation of the same	of ce, s / she ich gal		
	Raw	Material	/ Fuel Requi	rement	(Multiple En	tries Allou	ved)			
9	a.	Details o	f Raw Material	/ Fuel R	Requirement					-
	Raw Mat Fue	erial /	Quantity per Annum	Unit	Source (in case of Import, please specify country and Name of the port from which Raw Material / Fuel is received)	Mode of Transport	Distance of Source from Project Site (in Kilo meters) (In case of import, distance from the port from which the raw material / fuel is received	(Li. Fue Agr. / Cap Cap Ope ma	kage nkage el Sup reeme e-auct MoU A otive	oply nt tion
	Unit: per I Mode	- (Tons per Day(TCD), Go of Transpoination of Upload	Annum(TPA), Cubic Meter pe ort/Transmissi two or three m copy of Linkag	, Mega W r Day, Ki on of Pro odes, Ot e / Fuel	Vatt(MW), Hect ilometers(Km), oduct (Road, Ra hers)	ares(ha), Kile Million Liter il, Conveyor ment / e-auc	fuel shall be given o Liter per Day(KLD), rs per Day(MLD), Oth Belt, Pipe Conveyor, A	ers) Arial	Rope	
	Base		to the second se				able/ Others)	_		-
	a.	Period of	Base Line Dat	a Collect	tion					T
		From (D	D/MM/YYYY)						:	
		To (DD/	MM/YYYY)						*	
	b.	Season (Summer / Pre-	monsoo	n / Post-monso	on / Winter)				
	c.	No. of Ar	nbient Air Qua	lity (AA	Q) Monitoring I	ocations			:	

	d.	Details of A	AQ Monitor	ring (Multiple	Entries All	owed)			
	Cri	teria Pollutants	Unit	Maximu Value	m Minim Value	num 98 Percentil Value	Prescribed Standard		
	Crite	eria Pollutants:	- (PM10, P	M2.5, SO2, N	Ox, Others	parameters spe	cific to sector)		
		: - (Micro Gran	n per Meter	Cube, Nano	Gram per M	leter Cube, Mili	Gram per Meter	Cube, NA)	
ę	e.			-		ltiple Entries A	llowed)	:	
	f,	Details of G	ound Wate	er Monitoring					- 5
	Cri	teria Pollutants	Unit	Maximum Value	Minimu Value	m 98 Perce Value	entile Prescribe d Standard		
	para	eria Pollutants meters specific :- (mg/l, NA)			tal Hardne	ss, Chlorides,	Fluoride, Heavy	Metals, other	er
	g.		ce Water M	lonitoring Loc	rations			1: 1	
	h.					atries Allowed)		
	Cri	teria Pollutants		Maxime Value				2000	
		:- (mg/l, NA)	SCIPPODE SOURCE	OD, Others p		pecific to the se	ctor)		
	j.			oring (Multipl		llowed			_
	1		nit 1	Maximum N	dinimum	98 Percentile Value	Prescribed Standard		
		meter:- (Leq(D :- (A-weighted	decibels(d	B(A))					
	k.	No. of Soil M	Ionitoring	Locations (M	ultiple Entr	ies Allowed)	Index 4		
	Par	ameter	Unit	Maximu m Value	Minimu m Value		tile		
	Para	meter :- (pH, N	(Nitrogen)	, P(Phosphor	us), K(Pota:	ssium), Electric	Conductivity)		

		iequivalents				Milligram p am per Kild				etre per Kilogram pe	Second er hectare	
	1	1000	Water Ta	ble								
	i	Range of	Water Tabl	e Pre-M	onso	on Season (1	Meters Bek	ow Ground	l Level	(m bgl)):		Т
		From									1	Π
	111	To									:	ī
	ii	Range of	Water Tabl	e Post-M	Ionso	on Season (Meters Be	low Groun	d Leve	l (m bgl)):		Т
		From									\$8	
		То									1	
	iii	Whether	Ground Wa	ter Inter	rsecti	on will be th	nere (Yes /	No)?			:	
		If Yes,										
		(i) Uploa	d Copy of C	entral G	roun	d Water Aut	hority Lett	er (Uploa	d pdf o	nly)	1	
j		(ii) Lette	r No.								*	
	111	(iii) Date	of issue				70				1	
	Det	ails of Wa	ter Requir	ement ((Dur	ing Opera	tion) (Mu	ltiple Entr	ies All	owed)		
	a.	Details										Ī
	So	urce	Quanti KLD	*		od of water Irawal	Distance Source	from	Mode	of Transpo	it	
	Mod Met	e of Transp nod of wate Upload C	Copy of Pern	peline / (l: Barrag	Cana ge / V	l / Others				ll / Open we		
	c.	Letter No	77								:	_
	d.	Date of i	Shanna man								1	_
	e.		d quantity			(N (N-)					13	_
	f.		Desalinatio	n is proj	posec	(Yes/No)					0.	
-		If Yes,			D)						W: 1	_
	-	15 (50) (50) (50)	ination capa ity of Brine (1)						:	_
	-	180300000000000000000000000000000000000	e of Dispose	100000000000000000000000000000000000000								_
-	TATA	4.00.4.00.000	Sec. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	100000000000000000000000000000000000000	3	Operation)					;	_
	VV at	stewater A	ianageme	nt (Dur	mg v	operation)	K					
		urce W G (k	uantity of laste Water enerated Glo Litre er Day)	Committee of the Commit	city	Treatmen t Method	Mode of Disposal	Treated	Used ling / (Kilo	Quantity Discharged r (Kilo Lit Day)		

a. Total Waste Water Generation b. Total Discharged Water c. Total Reused Water Solid Waste Generation Management (Multiple Entries Allowed) Item Quantity per Annum Unit Distance from Site Transport Disposal Item: (Industrial waste, Municipal Solid waste, Fly ash, Bottom Ash, Hazardous Waste (as Hazardous and Other Waste Management Rules 2016), E Waste, Bio-Medical waste, Construction Demolition waste, Plastic Waste, Others) Unit: (Tons, Kilolitres) Mode of Disposal:- (Treatment, Storage and Disposal Facility(TSDF), Authorized Re-cyclers, Landf Sanitary Landfills, Others) Air Quality Impact Prediction (Multiple Entries Allowed) Criteria Unit Baseline Goncentr Value Concentration Total GLC Prescribed Standard ation Parameter:- (PM10, PM, SO2, NOx, Others parameters specific to the sector) Unit: - (Microgram per Meter Cube, NA) Power Requirement a. Quantity (Kilo Volt Amps (KVA)) b. Source c. Upload Copy of Agreement (Upload pdf only) d. Standby Arrangement (Details of DG Sets) e. Stack Height (in m) Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land b. Private Land c. Government Land d. Revenue Land e. Other Land											
b. Total Discharged Water c. Total Reused Water Solid Waste Generation Management (Multiple Entries Allowed) Item Quantity per Annum Unit Distance from Site Transport Disposal of Disposal One of Disposal			T-4-1 TAT1	117.4						Tar	4
c. Total Reused Water Solid Waste Generation Management (Multiple Entries Allowed) Item Quantity per Annum Unit Distance from Site Transport Disposal of Disposal Item: - (Industrial waste, Municipal Solid waste, Fly ash, Bottom Ash, Hazardous Waste (as Hazardous and Other Waste Management Rules 2016), E Waste, Bio-Medical waste, Construction Demolition waste, Plastic Waste, Others) Unit: - (Tons, Kilolitres) Mode of Disposal: - (Treatment, Storage and Disposal Facility(TSDF), Authorized Re-cyclers, Landf Sanitary Landfills, Others) Air Quality Impact Prediction (Multiple Entries Allowed) Criteria Unit Baseline Minimum Incremental Concentration Pollutants Criteria Pollutants Unit Baseline Minimum Incremental Concentration Standard Standard Parameter: (PM10, PM, SO2, NOx, Others parameters specific to the sector) Unit: - (Microgram per Meter Cube, NA) Power Requirement a. Quantity (Kilo Volt Amps (KVA)) b. Source c. Upload Copy of Agreement (Upload pdf only) d. Standby Arrangement (Details of DG Sets) e. Stack Height (in m) Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land b. Private Land c. Government Land d. Revenue Land : :					tion					-	_
Item											+
Item		0.000		200.000.000000						- 18	
Item:- (Industrial waste, Municipal Solid waste, Fly ash, Bottom Ash, Hazardous Waste (as Hazardous and Other Waste Management Rules 2016), E Waste, Bio-Medical waste, Construction Demolition waste, Plastic Waste, Others) Unit:- (Tons, Kilolitres) Mode of Disposal:- (Treatment, Storage and Disposal Facility(TSDF), Authorized Re-cyclers, Landf Sanitary Landfills, Others) Air Quality Impact Prediction (Multiple Entries Allowed)		Soli	d Waste Gen	ieration Man	agemer	it (Multiple E	ntries Allowed)				
Hazardous and Other Waste Management Rules 2016), E Waste, Bio-Medical waste, Construction Demolition waste, Plastic Waste, Others) Unit:- (Tons, Kilolitres) Mode of Disposal:- (Treatment, Storage and Disposal Facility(TSDF), Authorized Re-cyclers, Landf Sanitary Landfills, Others) Air Quality Impact Prediction (Multiple Entries Allowed) Criteria Pollutants Unit Baseline Concentr Value Concentration Total GLC Standard Standard Parameter:- (PM10, PM, SO2, NOx, Others parameters specific to the sector) Unit:- (Microgram per Meter Cube, NA) Power Requirement a. Quantity (Kilo Volt Amps (KVA)) b. Source c. Upload Copy of Agreement (Upload pdf only) d. Standby Arrangement (Details of DG Sets) e. Stack Height (in m) Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land c. Government Land d. Revenue Land :			Item	The second of th	Unit			of	1,000,000,000,000		
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Pollutants Concentr ation Value Concentration Standard		Air	Quality Impa	act Prediction	ı (Multip	ole Entries Ali	lowed)				
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Unit :- (Microgram per Meter Cube, NA) Power Requirement a. Quantity (Kilo Volt Amps (KVA)) b. Source c. Upload Copy of Agreement (Upload pdf only) d. Standby Arrangement (Details of DG Sets) e. Stack Height (in m) Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land b. Private Land c. Government Land d. Revenue Land :											
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e. Stack Height (in m) : Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land : b. Private Land : c. Government Land : d. Revenue Land :		C.	Upload Cop	y of Agreement	t (Uploa	d pdf only)				10	\top
Land Ownership Pattern (Prior to the project proposal) in Ha a. Forest land : b. Private Land : c. Government Land : d. Revenue Land :		d.	Standby Ar	rangement (De	tails of D	G Sets)				13	
a. Forest land : b. Private Land : c. Government Land : d. Revenue Land :		e,	Stack Heigh	nt (in m)							\top
b. Private Land : c. Government Land : d. Revenue Land :		Lan	d Ownership	Pattern (Pri	or to th	ne project pr	oposal) in Ha	ı			
b. Private Land : c. Government Land : d. Revenue Land :	_	a.	Forest land							1:	
c. Government Land : d. Revenue Land :		10:54								-	+
d. Revenue Land :		100000	17378-1000 777-0775							1 100	+
	-	1000	100000000000000000000000000000000000000							_	1
		e.	1 52								_
Total land		1									+

	Pre	sent Land Use br	eaku	ıp in Ha								
	a.	Agriculture Area								:		
	b.	Waste/Barren Ar	ea							:		
	C.	Grazing / Comm	unity	Area						;		
	d.	Surface Water bo	dies							:	9	
	e,	Settlements										
	f.	Industrial										
	g.	Forest								:		
	h.	Mangroves										
	i.	Marine area										
	j.	Others (Specify)								:	3	
		Total								:		
	Lan	d requirement fo	r va	rious acti	vities (M	Ault	iple en	tries allov	ved) in Ha	:		
9	De	scription of Activity	/ Fa	cility / Pla	nt / Othe	TS	Land	equiremen	t Remarks	3	='	
											\exists	
	No. of Contract of	een belt										
	The second secon	tal vity / Facility / Plar	+ / 5	Whom inch	dor Mais	, Dla	nt Tour	nobin Cua	mbolt Ash non	d Ones		
		lump Area, Safety z										
		e management, Bui									200	
		logical and Envir ified Protected A									s; NP	A-
	a.	Details of Ecolog	-		оснан	102	1104.51	2323 1.00	Deliantive 2.01	ica)		
	De	tails of Ecological	Nat	ne	Distar	ice fr	om the	Remarks		1		
	Se	nsitivity			Projec	t (Kı	m)			-		
	De	etails of Ecological erridors, Wildlife Co	Sens	sitivity: - ((Critically	y Po	lluted A	rea, WLS,	NPA, ESAs, I	SZs,		
	b.	Whether NBWL			n is requi	ired	(Yes/No)?				
		If yes										
		Upload NBWL re	com	mendation	in PDF							
	c.	Details of Enviro	nme	ntal Sensiti	vity							
		etails avironmental Sensit	of ivit	Name			tance f		Remarks			
	у		wed #				e 100.7-88.898	T. (C.)				
		ils of Environmenta								ons, Oth	iers)	_
	d.	Whether NoC / F	erm	ission from	the com	peter	nt autho	rity is requ	ired (Yes/No)?			

-	If yes
	Upload NoC / Permission from the competent authority in PDF
For	est Land
1	Whether any Forest Land involved (Yes/No)?
	If Yes
a.	Forests Clearance Status (In-Principle(Stage-I) Approval Obtained / Final (Stage-II) Approval Obtained / Forest Clearance Under Process(Stage-I) / Forest Clearance Under Process(Stage-II) / Application for Forest Clearance yet To-Be Submitted) If In-Principle (Stage-I) Approval Obtained,
	(i) MoEFCC file number
	(ii) Date of In Principle (Stage-I) approval
	(iii) Area diverted
	(iv) Upload FC Letter (Upload pdf only and attach it as Annexure-FC letter)
	If Final (Stage-II) Approval Obtained,
	(i) MoEFCC file number
	(ii) Date of Final Approval
	(iii) Date of In-Principle Approval
	(iv) Area diverted
	(v) Upload FC Letter (Upload pdf only and attach it as Annexure-FC letter)
	If Forest Clearance under process (Stage-I),
	(i) MoEFCC file number
	(ii) Area applied
	If Forest Clearance under process (Stage-II),
	(i) MoEFCC file number
	(ii) Area applied
b.	Legal Status of Forest Land (Reserved, Protected, Private, Village, Others)
	If Others,
	Please Specify Others
Tre	e Cutting, if any
a.	No. of Trees Cut for the Project (if Forestland not involved)
b.	Details of Tree Cutting and Planting of Trees (Upload pdf Only)
C-3 C-1	d Acquisition Status
a.	Acquired Land
b.	Land yet To-Be acquired
c.	Status of Land acquisition if not acquired
	abilitation and Resettlement (R&R)

a.	No. of Villages	
b.	No. of Households	
c.	No. of PDFs (Project Displaced Families)	
d.	No. of PAFs (Project Affected Families)	
e.	Funds Allocated for R&R	
f.	Status of R&R (Completed / In-progress / Yet to start)	
Wh	ether there is Presence of Schedule-I Species (Yes/No)?	*
1	If yes,	
a,	Details of Schedule-I Species	1
b.	Whether conservation plan for Schedule-I Species has been prepared (Yes/ No)?	1
	If Yes,	
	Upload conservation plan (Upload only PDF)	
	Fund Provision made	
	Period of Implementation	
c.	Whether conservation plan for Schedule-I Species has been approved by competent authority (Yes/No)?	
	Upload copy of approval (Upload PDF Only)	4:
	Letter No.	:
	Date of issue	1
	Recommendations if any	:
Wh	ether there is Presence of Water Bodies in Core Area (Yes/No)?	:
	If yes,	
a.	Details of Water Bodies in Core Area	1:
b.	Whether there is Diversion required (Yes/No)?	
	If yes,	
c.	Details of diversion required	
d.	Details of study conducted	
e.	Whether permission has been obtained from competent authority (Yes/No)?	
	Upload copy of permission (Upload PDF Only)	
	Letter No.	
	Date of issue	
	Recommendations if any	
Wh	ether there is Presence of Water Bodies in Buffer Area (Yes/No)?	:
	If Yes	
a.	Details of Water Bodies in Buffer Area	:

	b.		ection of Water Bodies in orth West / South East / S		orth / South / East / W	est / North East	:
	c.	Dis	tance of Water Bodies in I	Buffer Area (kil	o meters)		
	Mar	pow	er Requirement				
	a.	Per	manent employment duri	ng construction	1		:
	b.	Per	manent employment duri	ng operation			1
	c.	Ter	nporary employment duri	ng construction	n		
	d.	Ten	nporary employment duri	ng operation			:
	e.	No.	of working days				:
	f.	Tot	al manpower				:
	Gre	en Be	lt in Ha				
	a.	Inc	case of new projects				1
	i.	Tot	al Area of Green Belt				
	ii.	Per	centage of Total Project A	rea			2
	iii.	No.	of Plants To-Be Planted				:
	iv.	Fur	nds Allocated for Plantatio	on			;
	v	Upl	load Green Belt Plan (Upl	oad PDF Only)	V		
	b.	Inc	ase of expansion / modern	nization / chan	ge in product mix etc.	102	
	i.	P P N	Description Total Area of Green Belt Dercentage of Total	Existing	Proposed	Total	
-	ii.		load Green Belt Plan (Upl	oad PDF Only)	3 11	_	
			Senefit (Multiple entry				
	Tyr	e of P	roject Benefits	Details	of Project Benefit		
	122	COLL	roject benefits	Details	of Froject benefit		
	(Pro	ject be	enefits shall include enviro	onmental, socia	l and others)		
	Who	ether	the Project / Activity a	attracts the p	rovisions of CRZ (Yes	s/No)?	
	If ye	es,					
	1	Pro	oject Details				
		a.	CRZ Classification: (CR IV(B))	Z I (A), CRZ I	(B), CRZ II, CRZ III, C	RZ IV (A), CRZ	
		b.	Location type: (Non-Er Eroding Coast)			ing Coast, High	
	92.4	c.	Details of Mangroves La	nd Involved, if	Any		

	d.	100112200	of Mangroves Land (hectare)	
	e.	EIA (1	Terrestrial) Studies: (Carried Out, Not Carried Out)	
		If Car	ried Out,	
		1)	Summary Details of EIA (Terrestrial) Studies	
		2)	Upload Recommendation made in EIAs (Upload pdf only)	
		3)	Period of Study from (EIA Terrestrial)	
		4)	Period of Study to (EIA Terrestrial)	
		If Not	Carried out	
			Give Reason	
	f.	EIA (N	Marine) Studies: (Carried Out, Not Carried Out)	
		If carr	ied out	
		1)	Summary Details of EIA (Marine) Studies	
		2)	Upload Recommendation made in EIAs	
		3)	Period of Study from (EIA Marine)	
		4)	Period of Study to (EIA Marine)	
		If Not	Carried out,	
		Give F	Reason	
	g.	Disast	er Management Plan/National Oil Spill Disaster Contingency Plan (if cable)	
2.	De	scription	on of the Project Under Consideration	
	a.	Stilt, I Efflue Desali	of Project: (Resort/Buildings/civic amenities, Coastal Roads/Roads on Pipelines from Thermal power Blow Down, Marine Disposal of Treated nt, Facility for Storage of Goods/Chemicals, Offshore structures, mation Plant, Mining of Rare Earth/Atomic Minerals, Sewage Treatment t, Lighthouse, Wind Mills, Others)	
			sort/Buildings/civic amenities,	
		1)	Agency Name for Preparing CRZ Maps	
		2)	Total Area/Built-up Area (hectare)	
		3)	Height of Structure	
		4)	FSI Ratio	
		5)	The governing Town Planning Rules/Regulations	
		6)	Details of Provision of Car Parking Area	
		If Coo	astal Roads/Roads on stilt,	
		1)	Agency Name for Preparing CRZ Maps	
		2)	Area of Land Reclamation	
		3)	Estimated Quantity of Muck/Earth for Reclamation	
		4)	Carrying Capacity of Traffic	
		1000	pelines from Thermal Power Blow Down,	
		1)	Agency Name for Preparing CRZ Maps	

2)	Length of Pipeline	
3)	Length Traversing CRZ Area	
4)	Depth of Excavation	
5)	Width of Excavation	
6)	Length of Pipeline from Seashore to Deep Sea	
7)	Depth of Outfall Point from Surface of Sea Water	
8)	Temperature of effluent above Ambient at Disposal Point	
If Ma	rine Disposal of Treated Effluent,	
1)	Agency Name for Preparing CRZ Maps	
2)	Location of Intake/Outfall	
3)	Depth of Outfall Point	
4)	Length of Pipeline	
5)	Length Traversing CRZ Area	
6)	Depth of Excavation	
7)	Width of Excavation	
8)	Length of Pipeline from Seashore to Deep Sea/Creek	
9)	Depth of Outfall Point from Surface of Sea Water	
10)	Depth of Water at Disposal Point	
11)	Type of Disposal	
If Fac	cility for Storage of Goods/Chemicals,	
1)	Agency Name for Preparing CRZ Maps	1
2)	Name and Type of Chemical	
3)	End use of the Chemical	
4)	No. of Tanks for Storage	
5)	Capacity of tanks	
If offs	shore structures,	
1)	Agency Name for Preparing CRZ Maps	
2)	Exploration or Development	
3)	Depth of Sea Bed	
4)	No. of Rigs/Platform	
5)	Details of Group Gathering Stations	
If Des	salination Plant,	
1)	Agency Name for Preparing CRZ Maps	
2)	Capacity of Desalination	
3)	Total Brine Generation	
4)	Temperature of Effluent above Ambient at Disposal Point	
5)	Ambient Salinity	

-	6)	Disposal Point
	1.00000000	ning of Rare Earth/Atomic Minerals,
	1)	Agency Name for Preparing CRZ Maps
	2)	Capacity of Mining
	3)	Volume/Area To-Be mined
	4)	Type of Mineral To-Be Extracted
	5)	End use of the Mineral
	If Se	wage Treatment Plants,
	1)	Agency Name for Preparing CRZ Maps
	2)	Capacity
	3)	Total Area of Construction
	4)	Compliance of effluent parameters as laid down by CPCB/SPCB/other authorized agency
	5)	Whether discharge is in sea water/creek? If yes,
		Distance of Marine Outfall Point from Shore/from the tidal river bank
		Depth of Outfall Point from Sea Water Surface
		Depth of Sea at Outfall Point
	If Lig	yhthouse,
	1)	Agency Name for Preparing CRZ Maps
	2)	Total Area of Construction
	3)	Height of the Structure
	If W	nd Mills,
	1)	Agency Name for Preparing CRZ Maps
	2)	Capacity (MW)
	3)	Transmission Lines: (Overhead, Underground)
	4)	Diameter of Windmill
	5)	Length of Blade
144	6)	Speed of Rotation
	7)	Height of the Structure
	IfOt	hers,
	1)	Agency Name for Preparing CRZ Maps
	2)	Please Specify with salient features
	3)	Upload relevant Document (Upload pdf only)
3.	1.73.0	of Project (In Meters) from LTL/HTL To-Be Stated
		e of CRZ Notification Under which the Project is a Permissible/Regulated
	b. Whet	her CRZ Map Indicating HTL, LTL Demarcation in 1:4000 Scales ared? (Yes/No)

		If Yes,					
		1)	Distance of Project	t (in meters) from HTL To-Be Stated			
		2)	Upload Maps(kml	File)			
		3)	Distance of Project	t(in meters) from LTL To-Be Stated			
		4)	Upload Maps (kml	l File)			
	c.	Wheth	er Project Layout Sup	erimposed on CRZ Map 1:4000 Scales?: (Yes/No)			
		If Yes,					
		1)	Upload Maps (kml	l File)			
	d.	Prepar	er CRZ Map 1:2500 ed? (Yes/No)	oo Covering 7 km Radius Around Project Site			
		If Yes,		Attends s			
		1)	Upload Maps (kml				
	e.	ESAs P	er CRZ Map Indicati repared?: (Yes/No)	ing CRZ-I,II,III and IV Including Other Notified			
		If Yes,	II.1. 131/l/	LENIA			
	-	1)	Upload Maps (kml				
	f.		om State Pollution Co	ontrol Boards Obtained: (Yes/No)			
		If Yes					
		1)	1 57	OC (Upload pdf only)			
	g.		of Rain Water Harves				
4-	Rec			oastal Zone Management Authority			
	a.	51,575,55	Copy of CZMA (Uplo				
	b.	100 September 100	he Conditions Impose	No. of the control of			
	c.	Social and Environmental Issues and Mitigations Measures Suggested Including but not Limited to R&R, Water, Air, Hazardous Wastes, Ecological aspects, etc. (Brief Details To-Be Provided)					
Sec	tor Sp	ecific I	VET-11-12-12-12-12-12-12-12-12-12-12-12-12-				
Wi	ether	the pro	posal is mining of r	minerals (coal / non-coal) project (Yes/No)?			
	If y	es,	1857 - H. 1955 - W. 1956	(0417-25-041-07)			
1	No.	of Mine	ral To-Be Mined (Mul	ltiple Entries Allowed)	2		
	N	Inerals	To-Be Mined	Major or Minor Mineral			
2	1.577		ity in ROM (Run of M	12.101711			
3	mir	erals (U	pload pdf Only)	cate from State Mines and Geology in case of minor			
4	Min	ning Pla	NAME OF TAXABLE PARTY O				
	a.	App	proval Letter No.				
	b.	Dat	e of Approval				

	a. b.	No. of sean	ns of seams To-Be worked o	20.	
7	-		if applicable		
	f.	Capacity			
	e.	200000000000000000000000000000000000000	on / washing Technology		
		If yes,			
	d.	the mining	is proposed to install be lease area (Yes/No)?	neficiation plant	Coal washery within
134					
	Cru	sher ID	Capacity (in TPH)	Remarks	1
	c.		rusher (Multiple entries	STORE TABLE PARTY.	
	Ъ.	No. of crus	7.75()		
		If yes,			
	a.	(Yes/No)?	t is proposed to install	crusher within t	he mining lease area
6	Deta		ciation (including cru		
	k.	Life of Min	e (Years)	2002	A1980 201
	j.	Mining M Undergrou	lethod (Opencast / U nd) / Adit	inderground /	Mixed (Opencast +
	i.	Maximum write Not a	Thickness of Seams(met	ers) (Only for Cos	d Mining, Others may
	h.		radient (Degree)		
	g.	applicable)		r Coal Mining, C	Others may write Not
7	f.	Stripping B	2000 20		30 XI 03
	e.	100000000000000000000000000000000000000	oal /Ore /Mineral		
	d.	Percent of	Extraction (%)		
	c.	Extractable	Reserves (Million Ton)		
	b.	Mineable R	teserves (Million Ton)		
	a.	Total Geole	ogical Reserves (Million 7	on)	
5	Tech	mical Details	s		
	g.	Approved (Capacity		
111	f.	Approved ?	Mining Lease Area		
17		Please spec	ify		
	e.	If Others,			
	d.		by State Mines & Geology Coal / Ministry of Mine (Others)		
	c.	c broad Mb	proved Letter (<i>Upload po</i>	y onty)	

	c.	Maximum Thickness of Seams(meters) (if not Applicable, may Write NA)
8	Deta	ails of Mining Lease
	a.	Details of Mining Lease
	b.	Upload Letter of Intent (Upload pdf only)
	c.	Date of Execution of Mining Lease with Reference Number
	d.	Validity of Mining Lease
	e.	Upload Copy of Executed Lease deed valid as on Date (Upload pdf only)
	f.	Earlier Renewals (Multiple Entries Allowed)
	1	Uploaded Copy of Earlier Lease Date of Renewal
9	ов ((Over Burden) Management (Only if Mining Method: Opencast)
	a.	Details of External Dumps
		No. of OB Dumps
		Total Area (in Hectare)
		Height (in meter)
		Quantity (in Million Cubic meter)
		No. of year back fill up
	Ъ.	Details of Internal Dump
		No. of Internal Dumps
		Total Area (in Hectare)
		Height (in meter)
		Quantity (in Million Cubic meter)
10	Deta	ails of Topsoil Management
	a.	Quantity of Topsoil excavated during the entire life of the mine (in Million Cubic meter)
	b.	Quantity of Topsoil proposed for utilization for reclamation during the entire life of the mine (in Million Cubic meter)
	c.	Quantity of Topsoil proposed for utilization for other activities during the entire life of the mine (in Million Cubic meter)
11	Deta	ail of Final Mine Void (Only if Mining Method: Opencast)
	a.	Area (in Hectare)
	b.	Depth (in meter)
	c.	Volume (in Million Cubic meter)
12	Deta	ails of Quarry (Only if Mining Method: Opencast)
	a.	Final Void of (hectare)
	b.	At a Depth of (meter which is proposed To-Be converted into a Water Body.)
	c.	Total Quarry Area (ha)
13	Deta	ails of Transportation

	a.	In Pit/Under	ground to Surface							
	Ъ.	Surface to Si	ding/Loading							
	c,	Transportation	on / Conveyor Deta	ils			Т			
14	Detai	ils of Land Us	age (Pre-Mining)						
	Land	l Use	Within Area (Hectare)	ML Outside MI Area (Hectare)	Total					
		culture Land	1,322,000,111,000,000							
		st Land te Land								
	and the same of th	ing Land								
		ace Water Bodie	·e							
		ements			-					
	-	ers(Specify)								
15	Detai	ils of Transpo	rtation							
	a.	In Pit/Under	ground to Surface							
	b.	Surface to Sie	ding/Loading							
	c.	Transportation	on / Conveyor Deta	ils						
16	Details of Land Usage (Pre-Mining)									
_	Land	l Use	Within ML Area	Within ML Area Outside ML Area						
	20000		(Hectare)	(Hectare)	Total					
		culture Land		22 25						
	No Propher is enquered to	st Land								
	CENSOR SPANISHED IN CO.	te Land								
	Graz Surfa	ing Land								
	Bodi									
		ements								
	-	ers(Specify)				-				
	Othe				ii.					
17	Detai	ils of Land Us	age (Post-Mining	g)						
	Land	The state of the s	Plantation	Water Body	Public Use	Others				
		ation / quarry								
	Top S	oil Storage				-				
		nal OB dumps								
	Roads	nal OB dumps					-			
	Built	Up Area ny/Office)								
	Green									
		ı Area								
	Other						-			
	Total						_			

	18		ils of Reclamatio estation Plan shal de:						
		a.	External OB Dump	(in hectare)					Г
		b.	Internal Dump (in	hectare)					Γ
		c.	Quarry (in hectare)					Г
		d.	Safety Zone (in hec	tare)				:	Γ
		e.	Final Void of (hect	are)					Γ
		f.	At a Depth of (mete	r which is prop	osed To-Be con	werted into a	Water Body.)	10	Γ
		g.	Density of Tree Pla	ntation per ha	(in no.)			:	ľ
		h.	Others in ha (such Infrastructure, En Lease etc.)						
		i.	Total afforestation	on plant (in h	ectare)				ľ
	19	Statu	s of Progressive M	ining Closure	e Plan (For E	pansion Pr	ojects only)		ľ
		a.	Implementation of Closure Plan (in Ba	r Chart) (pdf)	Upload pdf on	ly)			
		b.	Any Deviation fron			ine Closure Pl	an		
		C.	Total Area Excavat	ed (in hectare)	1				
		d.	Total Area Backfill	ed after Excava	tion (in hectare)			
		e.	Total Area Reclaim	ed (in hectare)	ß				
	20		al Coal/Ore Produc tiple Entries Allou		sanctioned c	apacity Sinc	e inception		
	Fin Yea	ancial r	Sanctioned Capacity as per EC (MTPA)	Sanctioned capacity as per CTO	Sanctioned capacity as per approved Mining Plan	Actual Production	Excess Pr Beyond the / Mining Sanctioned (MTPA)	Pla	au
	-								_
		te Hea	roposal is for The t Recovery Plant) ((including ca	ptive power	r plant and		
		If yes							L
	1	-	ifications of the Pla						
		a.	Technology propo IGCC, Incineration	, Pyrolysis, Gas				•	
	_	ь.	Plant Load Factor					;	L
		c.	Station Heat Rate ((1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				1	L
		d.	Steam Rate/Flow I					1	L
		e.	Boiler Temperatur	e.				1	L
		f.	Boiler Pressure					P .	
_	_	g.	Type of Stack (Sing						erii

		h.	No.	of Stacks				T	
		Sta	ck ID	Stack height (m)	Stack Diamete at exit (m)	r Exit velocity of stack gas (m/s)	Exit temperature of stack gas (°C)	2	
	2	Deta				multiple linkage			
		a.	/ Ca	ptive / Open ma	rket / Others)	ly Agreement / e-au	iction / MoU / LO	A	
		b.	13.20.00	ntity of linkage g	ranted				_
		d.	5.32	of Linkage					_
				ation of linkage				-	_
	3-	_		ransportation		co			_
	1000	etails / N	lode		Distance (km)	Quantity (TPA)			
	Re								
	1 1000	oad							
	The second second	peline nvevor							
			le (Plea	se specify)					
	4-	Deta	ils of I	uel Character	istics		15		
		a.	Gros	s Calorific Value	(Kcal/Kg)				
		b.	Ash	content (%)					
		c.	Sulp	hur Content (%)	8				_
		d.	Mois	sture (%)					_
		e.	Mer	cury (mg/kg)					
		f.	Fixe	d Carbon (%)					
		g.	Vola	tile Matter (%)					_
	5.	Deta	ils of C	cooling system	E				_
		a.	Туре	of cooling syste	m: Air cooled/V	ater cooled			
		b.	Туре	of draft: Natura	draft/Forced	lraft			_
		c.	Туре	of air circulatio	n: Parallel flow/	Counter flow			_
		d.	Cycle	es of Cooling (CC	DC):				
		e.	Wate	er requirement f	or cooling (m3/c	lay):			
		f.	1010/2001	er blow down ten	Control of the Contro				_
	Who	ether p				oelectric Project	(Yes/No)?		_
-	If Y	es,							
	1.	· / / / / / / / / / / / / / / / / / / /	Sector	(Multipurpose	Project / Hydro	electric Project / Irr	igation project)		_
	2.		of the					1:	_

3-			ulative Impact A (Yes/No)	ssessment and Carr	ying Capacity Study of River Basin	:
	If Yes					:
	A.	River		Impact Assessment ended / Not Recon	t and Carrying Capacity Study of mended,)	1
100				T	. 10 / 0 / 0 /	
	Ь.		is of Cumulative Basin	Impact Assessmen	t and Carrying Capacity Study of	:
	c.		- Carlotte Control Control	ment (Upload pdf	only)	:
4-	Type o Schem		ct: (Construction	of Dam Barrage /	Run of the River / Lift Irrigation	:
5-	Dam H	leight (meter) if applical	ble		*
6.	Dam L	ength (meter) if applica	ble		
7-	Total S	Submer	gence Area (hecta	are)		:
8.	Details	of Gro	ss Command Are	ea (GCA) (hectare)		:
9.	Details	of Irri	gable Command	Area (ICA) (hectare)	
10,	Details	of Cult	urable Comman	d Area (CCA) (hecta	re)	:
11.	Total C	Comma	nd Area (hectare)		:
12.	Power	house I	nstalled Capacity			;
	a.	Type	of Powerhouse: (Underground / Sur	face)	
	b.	Capac	ity (megawatts)			
	c.	No. of	f Tunnels			
	d.	No. of	f Units			
	e.	Bank	of River: (Left /F	Right / Both)		
13.	Gener	ation	of Electricity A	nnually		
	a.	Quan	tity of Generation	n of Electricity Ann	ually (in Giga Watt Hours (GWh))	
	b.	Water	r availability at v	arious percentages		
	Perce	entag	Water availability (Cusecs)	Dependable year	Remarks	
	At 50		All contractions in			
	At 75					
	C. At 90		ine Availability (96)		
	d.			eration (in INR)		
	e.	100000000000000000000000000000000000000	nal Rate of Retur			:
	f.	100 2021 100		f Internal Rate of R	eturn	
14.	17652.000	225,000		n (Upload PDF)	KAMANA X	.51
15.			ment Plan	an (o promit Dr)		
10.	a.		d Muck Manage			

	b.						
	c.	Utilized for C	onstruction (Cubic Meter)				
	d.	No. of Muck	Disposal sites				
	d. No. of Muck Disposal sites e. Total Muck Disposal Area (Ha) 16. Fishery Development and Management Plan a. Upload Fishery Development and Management Plan in PDF b. No. of Fingerlings c. No. of Fish Species d. Name of the umbrella Fish Species (Scientific Name) 17. Status of Environmental Flow Season Average Inflow (in Million Cubic Percent of Flow Meter) Lean Non-Lean Monsoon Non-Monsoon 18. Free Flow Stretch (km) 19. Approval of Central Water Commission a. Approval Reference No. b. Date of Approval c. Upload Copy of Approval (Upload pdf only)						
16.	Fishe	ery Development	and Management Plan				
	a.	Upload Fishe	ry Development and Management Pla	an in PDF			
	b.	No. of Finger	lings				
	c.	No. of Fish S	pecies				
	d.	Name of the	umbrella Fish Species (Scientific Nam	ne)			
17.	Statu	s of Environmer	ital Flow				
	Seas	son		Percent of Flow			
	Lea	n					
	Nor	ı-Lean					
	Mor	nsoon					
	-500						
18.		The second secon					
19.	Appr	oval of Central V	Vater Commission				
	a.	Approval Re	ference No.				
	Ъ.	Date of Appr	oval				
	c.	Upload Copy	of Approval (Upload pdf only)				
20.	Appr	oval of Central E	lectricity Authority				
	B.	Approval Ref	erence No.				
	b.	Date of Appr	oval				
	c.	Upload Copy	of Approval (Upload pdf only)				
21.	Detai	ils of Coffer Dam	(upstream) if applicable				
	a.	Quantity of the	ne material (m³)				
	Ъ.	Length of the	dam (m)				
	c.	Quantity of n	nuck To-Be used (m³)				
	d.	Quantity of b	orrow material To-Be used (m³)				
	e.	Decommission	oning plan (upload in PDF)				
22.	Detai	ils of Coffer Dam	(downstream) if applicable				
	a.	Quantity of the	ne material (m³)				
	b.	Length of the	dam (m)				
	c.	Quantity of n	nuck To-Be used (m³)				
	d.	Quantity of b	orrow material To-Be used (m³)				
	e.	Decommissio	oning plan (upload in PDF)				

If y	es?		
1	Deta	ails of Building Construction	
	8.	Maximum Height of the Building (Meters)	T
	b.	Total No. of Flats To-Be Build	t
	c.	No. of Buildings	t
	d.	Total plot area (sqm)	
	e.	Total built up area (sqm)	t
2	Fore	eshore Facilities And/or Marine Disposal	t
	a.	Whether Project Involves Foreshore Activities and/or marine Disposal (Yes/No)?	1
		If Yes,	L
	Ъ.	Upload Shoreline Study (Upload pdf only)	
	c.	Type of Cargo	
	d.	Quantity of Cargo	
	e.	Control Measures of Cargo	
	f.	Dust Control Measures	
	g.	Quantum	
	h.	Quantity of Dredging (Cubic meter per day)	Г
	i.	Type of Dredging (Capital, Maintenance)	
	j.	Disposal of Dredge Material	Г
	k.	Details of Outfall Diffusers	
	m.	No. of Dilution Expected	
	n.	Distance at which the outlet will Reach Ambient Parameters	
	0.	Details of Monitoring at outfall	Γ
	p.	Copy of NoC from PCB in case of Marine Disposal (Upload pdf only)	
3	Rair	nwater Harvesting	
	a.	No. of Storage	
	b.	Capacity	
	C.	No. of Recharge Pits	
	d.	Capacity	
4	Parl	cing	
	a.	Details of 4-Wheeler / 2-Wheeler Parking	Γ
5.	Ene	rgy Saving Measures	
	a,	Source/Mode	
	Ъ.	Percentage	Г

6.	Othe	er Details	
	a.	Details of impact on Water Bodies and Drainage patters of catchment area, if any	
	ъ.	Details of Traffic Density Impact Assessment and Modelling Study (Upload pdf Only)	
	c,	In case of Underground Tunnel projects below the Forest Land – Subsidence Impact Study report (Upload pdf Only)	
7-		of Industries To-Be established with Industrial Estate as per their gory A/B	
	Sl. N	No Type of Industry No. of Units Category A/B	
8.	Lone	gth of the alignment in case of highway projects	
-	-		-
9.	Pede	ils Bridges/ROB/Interchanges, Flyovers, Vehicle Underpass and estrian Underpass (in case of Highway Projects)	
	a.	Total No. of Bridges	
	ь.	Total No. of ROB	
	c,	Total No. of Interchanges	
	d.	Total No. of Flyovers	
	e.	Total No. of Vehicle Underpass	
	f.	Total No of Pedestrian Underpass	
	g.	Details of other utilities rail and road corridors	
Deta	ils of (Court Cases if any	
a.	the p	ther there is any Court Cases pending against the project and/or land in which roject is proposed To-Be set up (Yes/No)?	
	If Yes		
b.	of Inc	I CHI	
	-	me of Court: (Districts Court, High Court, NGT, Tribunals)	
c.	1.75(20)	e of the Sub-court	
d.	Case	TRANSPORT FOR THE PROPERTY OF	
e.	Orde	rs / Directions of the court, if any and its relevance with the proposed project	
f.	Case	Details	
g,	Uplo	ad Court Order if any (Upload pdf Only)	
		direction issued under Environment (Protection) Act / Air (Prever Pollution)) Act / Water (Prevention & Control of Pollution) Act	ntion
a.	Whet & Co (Yes/	ther any direction issued under Environment (Protection) Act / Air (Prevention ontrol of Pollution)) Act / Water (Prevention & Control of Pollution) Act / No)?	
	If yes	RI-	
b.	1 12	ils of directions issued under Environment (Protection) Act / Air (Prevention &	

	Upload copy of directions issued under Environment (Protection) Act / Air (Prevention & Control of Pollution)) Act / Water (Prevention & Control of Pollution) Act	
d.	Compliance status of the directions	
	ails of EIA Consultant	
a.	Have you hired Consultant for preparing document (Yes/No)?	:
	If No,	
	(i) Reason for not engaging the Consultant	:
	If Yes,	
	(i) Accreditation No.	:
	(ii) Name of the EIA Consultant	:
	(iii) Address	Т
	(iv) Mobile No.	:
	(v) Landline No.	:
	(vi) E-mail Id	1
	(vii) Category of Accreditation (Eligible for Category A / Eligible for Category B)	:
	(viii) Sector of Accreditation	:
	(ix) Validity of Accreditation	:
	(x) Upload Certificate of Accreditation certified by QCI/NABET (Upload pdf Only) ruments To-Be attached roject Type is New / Expansion / Modernization / one-time capacity expansion	
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If P	ruments To-Be attached roject Type is New / Expansion / Modernization / one-time capacity expa	
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b.	Upload Copy	of Final Layout Plan (Upload pdf only)						
c.	Upload Cover letter)	Letter (Upload pdf only and attach it as Annexure-document of Cover						
d.	making this a	oad a copy of documents in support of the competence/authority of the person sing this application to make application on behalf of the User Agency (Upload conly and attach it as Annexure-authorization)						
e.	Upload Additi	ional File, if any (Upload pdf only)						
f.	Upload Updated Form1(Upload pdf only)							
		taking						
Und	ertaking							
Und a.	I hereby give to are true To-Be information for clearance give	undertaking that the data and information given in the application and e e best of my knowledge and belief and I am aware that if any part of the found To-Be false or misleading at any stage, the project will be reje en, if any to the project will be revoked at our risk and cost. In addition to indertaking that no activity / construction / expansion has since been take	data and ected and above, I					
	I hereby give to are true To-Be information for clearance give	e best of my knowledge and belief and I am aware that if any part of the found To-Be false or misleading at any stage, the project will be reject, if any to the project will be revoked at our risk and cost. In addition to	data and ected and above, I					
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a. b.	I hereby give to are true To-Be information of clearance give hereby give un Name	e best of my knowledge and belief and I am aware that if any part of the found To-Be false or misleading at any stage, the project will be reject, if any to the project will be revoked at our risk and cost. In addition to indertaking that no activity / construction / expansion has since been taked:	data and ected and above, I					

FORM 3 Table 54:Form 3 for Amendment in TOR

FORM-3 APPLICATION FOR AMENDMENT IN TOR

1	Details of Project										
	3.		Project (s)				1				
	b.	Name of the	c Company / Organ	isation			1				
	(C.)	Registered /	Address				1				
	d.	Legal Status	of the Company				1				
	¢.	Joint Ventur	re (Yes/No)				2				
	1	If Yes,									
		(i) No. of J\	Partners (Multiple	e Entries Allowed)			1				
	N	Pariner	Share of the JV Partner	Address of the JV Partner	Email ld of JV Partiser	Mobile No JV Parte					
2	Add	ress for the co	rrespondence								
	2	Name of the	applicant	Aleks Salarian			2 1				
	b	Designation	(Owner / Partner /	CEO)			1				
	6.	Address									
	4	Pin code									
	2	e-mail									
	f.	Telephone 5	Vo.								
	16.	Fax No.	A COL								
3	Cate		relactifications as a	Pakada artis	g. Fax No. Category of the Project/Activity as per Schedule of EIA Notification, 2006						
	4.	Project / Act	tivity		MOCHET TO THE PARTY OF						
	*	Project / Act [1(a)(i) / 1(i) 4(b)(i)/ 4(b) 5(g) / 5(h) /	sivity s)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a)/ 6(/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (e) / 2(b) / 3(a) / (b) / 5(c) / 5(d)	3(b) / 4(a) / 5(e) / 5(f) /					
	h.	Project / Act [1(a)(i) / 1(i) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h)	tivity (ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a)/ 6(1 / 7 (i) / 8 (a) / 8 (b	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (e) / 2(b) / 3(a) / (b) / 5(c) / 5(d)	3(b) / 4(a) / 5(e) / 5(f) /					
		Project / Act [1(a)(i) / 1(i) 4(b)(i)/ 4(b) 5(g) / 5(h) /	tivity (ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a)/ 6(1 / 7 (i) / 8 (a) / 8 (b	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (e) / 2(b) / 3(a) / (b) / 5(c) / 5(d)	3(b) / 4(a) / 5(e) / 5(f) /					
		Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂	sivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1 / 7 (i) / 8 (a) / 8 (b / H ₂ /H ₂)	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	I.				
		Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂	tivity (ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a)/ 6(1 / 7 (i) / 8 (a) / 8 (b	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					
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4	b.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B, or B ₂ Reason for a If Others Please Speciation of the Pro-	(ivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7(i) / 8 (a) / 8 (b) /B ₂ /B ₂) pplication at Central fy	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	I I				
4	h. c. Loca	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B, or B ₂ Reason for a If Others Please Speciation of the Pro-	tivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7(i) / 8 (a) / 8 (b /H ₂ /H ₂) pplication at Central	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	1				
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4	b. c. Loca a. b. c.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tehsil	(ivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7(i) / 8 (a) / 8 (b) /B ₂ /B ₂) pplication at Central fy	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	\$				
4	b. Loca a b. c. d.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tebsil District	(ivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7(i) / 8 (a) / 8 (b) /B ₂ /B ₂) pplication at Central fy	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	\$				
4	b. Loca a b. c d e.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tehsil District State Pin Code	(ivity a)(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7(i) / 8 (a) / 8 (b) /B ₂ /B ₂) pplication at Central fy	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)	\$				
4	b. Loca a b. c. d. e. f.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tehsil District State Pin Code	(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7 (i) / 8 (a) / 8 (b) / B ₂ /B ₂) pplication at Centrally fy oject (/Khaura No.	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					
4	b. Loca a b. c. d. e. f.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speci ition of the Pro Plot / Survey Village Tebsil District State Pin Code Bounded Lat	(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7 (i) / 8 (a) / 8 (b) / B ₂ /B ₂) pplication at Centrally fy oject (/Khaura No.	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					
4	b. Loca a b. c. d. e. f.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tebsil District State Pin Code Bounded Lat From To	(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a) / 6(1/7 (i) / 8 (a) / 8 (b) / B ₂ /B ₂) pplication at Centrally fy oject (/Khaura No.	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					
4	h. Loca a b. c d. e. f.	Project / Act [T(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speciation of the Pro Plot / Survey Village Tebsil District State Pin Code Bounded Lat From To	(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 (d) / 5 (i) / 5 (j) / 6 (a) / 6 (a) / 8 (b) / B ₂ /B ₂) pplication at Central fy a feet of the contral feet	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					
4	h. Loca a b. c d. e. f.	Project / Act [1(a)(i) / 1(a) 4(b)(i) / 4(b) 5(g) / 5(h) / / 7 (g) / 7 (h) Category (A If B ₁ or B ₂ Reason for a If Others Please Speci ition of the Pro Plot / Survey Village Tebsil District State Pin Code Bounded Lat From To Beanded Los	(ii) / 1(b) / 1(c) / (ii) / 4(c) / 4(d) / 4 (d) / 5 (i) / 5 (j) / 6 (a) / 6 (a) / 8 (b) / B ₂ /B ₂) pplication at Central fy a feet of the contral feet	/ 1(d) / 1 (e) / 2(a l(e) / 4(f) / 5(a) / 5 b) / 7(a) / 7(b) / 7 (c)]) / 2(b) / 3(a) / (b) / 5(c) / 5(d)) / 7 (d) / 7 (da)	3(b) / 4(a) / 5(e) / 5(f) / 7 (e) / 7 (f)					

Page 1 of 17

5	Det	Details of Terms of Reference								
	a.	Date of issue of	ToR						2	
	h	MoEF&CC / S	Committee of the Commit							
_	C	miniganisting/astracks becit at 25,000 proposes	ter (PDF Only)							
6		ills of Product	0	100		Election 1	35.5.50		-	4
		roduct / Activity (Capacity/Area)	As per approved ToR	Qua	osed	Unit	Mode of Transp Transmission of P			
7		Tons Crushed p Day(MLD), Other Mode of Transpo	et/Transmission of combination of	of Production or	r per Day oct (Road, three mod	Rell, C	eters(Km), Mil Conveyor Belt,	lion L	itses	per
-						V Eller F	and and a	Dan	40.00	-
	-	Plant / Equipment / Existing Proposed Final configuration Facility Configuration Configuration after amendment		ac	irks if					
8	Rea	sons for the amen	dment in ToRs							-
9	Any	Other Amendme	nt required							
		teference of opproved ToR	Description as p approved ToR		r Description as per proposal		Ren	Remarks		
10	Deta	ils of EIA Consul	tant					-		
	B.	Have you hired	Consultant for pr	reparing	documen	HYev	Vol2		100	
		If No.						_		_
		(i) Reason for n	ot engaging the C	onsulta	rif.				4	
		If Yes.		eltenticución a fort a	100					-
		(i) Accreditation	No.						-	
		The second second second second second	EIA Consultant		_					
		(iii) Address								
		(iv) Mobile No.							-	
		(v) Landline No							E	
		(vi) E-mail Id							E	
		Category B)	of Accreditation	n (Elig	ble for (Categor	y A / Eligibl	e for	1	
		(viii) Sector of	Accreditation						15	
		(ix) Validity of	Accreditation						1	
		(x) Upload Cert Only)	ificute of Accred	itation (certified by	y QCI/	NABET (Uploa	nd pulf	3	
1	Docu	ments to be attac	hed							

Page 2 of 17

	此	Upload Copy of revised Form-1						
	b.	Upload revised pre-femibility report						
	e.	Upload Cover Letter duly signed by the project proponent or authorized person (Upload pdf only)		Ī				
	d.	Upload a copy of authorization duly signed by the project proposent in support of the person making this application on behalf of the User Agency (Upload pdf only)		l				
	e.	Upload Additional File, if any (Upload pdf ordy)		Т				
	Undertaking							
11								
11	Unde	I hereby give undertaking that the data and information given in the app enclosures are true to be best of my knowledge and belief and I am aware that i the data and information found to be false or misleading at any stage, the pr rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / en since been taken up	if any osect and	wil cos	n o			
11		I hereby give undertaking that the data and information given in the app enclosures are true to be best of my knowledge and belief and I am aware that i the data and information found to be false or misleading at any stage, the pre- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / ex-	if any osect and	wil cos	n o			
11	n.	I hereby give undertaking that the data and information given in the app enclosures are true to be best of my knowledge and belief and I am aware that i the data and information found to be false or misleading at any stage, the pr rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / en since been taken up	oject and span	wil cos	I b			
11	a. b.	I hereby give undertaking that the data and information given in the app enclosures are true to be best of my knowledge and belief and I am aware that i the data and information found to be false or misleading at any stage, the pro- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / en- since been taken up.	f any oject and upon	wil cos	n d			

FORM 4 Table 55:Form 4 amendment in EC

FORM-4 APPLICATION FOR AMENDMENT IN ENVIRONMENTAL CLEARANCE

1	Details of Project												
	D.	Name of the	e Project (s)				1						
	b.	Name of the	e Company / Organ	isation			1						
	C.	Registered :	Address	- Comment			1						
	d	Legal Statu	s of the Company				0						
	e.	Joint Ventu	re (Yes/No)				1						
		If Yes,	NAME OF TAXABLE PARTY O										
		(i) No. of J	V Partners(Multiple	Entries Allowed)			27						
	Na	Partner	Share of the IV Partner	Address of the JV Partner	Email Id of JV Partner	Mobile No JV Partn							
2	Add	ress for the co	errespondence										
		Name of the					1.						
	ь		(Owner / Partner /	CEO)			1						
	C.	Address	The state of the s										
	d	Pin code.											
	4	e-mail											
	f.	Telephone ?	Vo.										
	-	Fax No.	144										
3	Cate		miest/Activity or s	oer Schedule of EL	A Notification 2	none.							
		4(b)(i)/4(b) 5(g)/5(h)/	(ii) / 4(c) / 4(d) / 4 5(i) / 5(j) / 6(a)/ 60	4(e) / 4(f) / 5(a) / 5 b)/ 7(a) / 7(b)/ 7 (c	(b) / 5(c) / 5(d)	a. Project / Activity [1(a)(i) / 1(a)(ii) / 1(b) / 1(c) / 1(d) / 1 (e) / 2(a) / 2(b) / 3(a) / 3(b) / 4(a) / 4(b)(i) / 4(b) (ii) / 4(c) / 4(d) / 4(e) / 4(f) / 5(a) / 5(b) / 5(c) / 5(d) / 5(e) / 5(f) / 5(g) / 5(h) / 5(i) / 5(j) / 6(a) / 6(b) / 7(a) / 7(b) / 7 (c) / 7 (d) / 7 (da) / 7 (e) / 7 (f)							
	b.			/7(g)/7(h)/7(i)/8(a)/8(b)]									
		The state of the s											
		If B ₁ or B ₂											
					el (in case of H1	and B+	1						
				nf Level / State leve	el (in case of BI	and B ₂	2						
		Reason for a			el (in case of BI	and B ₂	701						
	6.	Reason for a projects) If Others	application at Centr		el (in case of BI	and B ₂	2						
	c.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin	application at Centri ify ned (for category A g / Non-coal Minin	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	701						
	d.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry- tion of the Pro-	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nl Level / State level State level State level State level Projects only)	Valley & Hydr	/ Industry-	2						
	d.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry- tion of the Pro-	application at Centri ify med (for category A g / Non-coal Minin II / Infrastructure-I	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	100						
	d.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin 1 / Industry- tion of the Pro Plot / Survey Village	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						
	d. Loca	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry- tion of the Pro Plot / Survey	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						
	d. Loca a. b.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin 1 / Industry- tion of the Pro Plot / Survey Village	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-							
	Loca a. b. c. d.	Reason for a projects). If Others Please Spec- EAC concer (Coal Minin I / Industry- tion of the Pr Plot / Survey Village Tehsil	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nf Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						
	Loca a. b. c.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry-tion of the Proposition o	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nl Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						
	d. Loca a. b. c. d. e. f.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry-tion of the Property Village Tehsil District State Pin Code	application at Centr ify med (for category A g / Non-coal Minin II / Infrastructure-I oject y / Khasra No.	nl Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						
	Loca a. b. c. d.	Reason for a projects). If Others Please Speci EAC concer (Coal Minin I / Industry-tion of the Property Village Tehsil District State Pin Code	application at Centralify med (for category A g / Non-coal Minin ll / Infrastructure-1 oject	nl Level / State level Projects only) g / Thermal / River	Valley & Hydr	/ Industry-	2						

Page 4 of 17

	h.	Bounded Long	itudes(East)									
		From										
		To							2			
	I.		dia Topo Sheet No.									
5	Deta	ils of Environme		100000000								
	a.	make an electric description between the best and the contract of	f Environmental	Clearar	ice							
	-	b MoEF&CC / SEIAA File No.										
_	6	Upload EC letter (PDF Only)										
6		Details of Consent to Operate (i) Whether Consent to operate obtained (Yes/No)?						_				
	(i)	and the state of t	ent to operate obt	ained (Yes/No)?							
-	6774	Hyes,	of all Concept to		to obtained	Mann I	section (Fig.	- Ind				
	(11)	only)	of all Consent to	opera	ic obtained	since i	sception (c/pso	rara prej				
	(iii)	Date of issue							\rightarrow			
	(iv)	Valid up to										
-	(v)	File No.				_						
	(vi)	Application No										
	(vii)		f Consent to oper	ratic wal	id as on da	te (1 hile	out nett and a					
7.		ndment sought f						arance.				
		ition/ other (Spe			-							
	-	The state of the s	(C.E.)									
į	Detai	ils of Product (a	per the approv	ed EC)								
		Product/Activity	Quant	nity	Unit	M	ode of Transpo	et/				
		(Capacity/Area)	10000000		2000	Tran	smission of Pr	oduct:				
									7			
		Market Market Committee										
	- 2	Toos Frushed o	r Annum(TPA), Ne er Day(TCD), Cub	ER WAT	t(Mw), Hec	teres(N	(), Kilo Litre	per Da	y(KLD).			
		Day(MLD), Othe	PS)									
	-	Bode of Transpo	ort/Transmission	of Prod	luct (Road,	Rail, C	onveyor Beit.	Pipe C	onveyor			
		Arial Anneway,	combination of t	WO OF	three mode	s. Other	4)	1104075	o commi			
		ls of Configuration	on (Multiple Entri	ier Alli	nved)							
	Plan	nt / Equipment /	Existing			Final	configuration	Remar	ks if			
		Facility	:Configuration	Con	figuration	after	amendment	an	y			
_								-				
0	204000	ons for amendm										
1	Any o	other amendmen	it required									
	Re	eference of	Description as p	per	Descript	ion as	Ren	marks				
	0.00				per prog	posal						
	approved EC approved EC			per proposal								
	- 560	Surviva C.C.	76837.107.85									
		gmoveu ex.	758.07.139.00									
2		ls of EIA Consu										
2		ls of EIA Consu	Itaut	reparin	g documen	it Yes-N	s¥7		1			
2	Detail	ls of EIA Consu		reparin	g documen	I(Yes/N	6)7		±:			
2	Detail	Is of EIA Consu Have you hired If No.	Itaut Consultant for p		Taconomicano	I(Yes/N	o)?					
2	Detail	Is of EIA Consu Have you hired If No.	Itaut		Taconomicano	I(Yes/N	o)?		±			

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		(i) Accreditation No.	1						
		(ii) Name of the EIA Consultant	1						
		(iii) Address.							
		(iv) Mobile No.	1						
		(v) Landline No.	İ						
		(vi) E-mail Id	E						
		(vii) Category of Accreditation (Eligible for Category A / Eligible for Category B)	1						
		(viii) Sector of Accreditation	T .						
		(ix) Validity of Accreditation	I.						
		 (x) Upload Certificate of Accreditation certified by QCI/NAHET (Upload pdf Only) 	1						
13	Docu	ments to be attached							
	n.	Upload addendum to EIA/EMP Report							
	b.	Upload Copy of revised - Feasibility Report/ Detailed Project Report(DPR) //Detailed Engineering Report /Detailed Conceptual Plan / Approved Mining Plan (in case of Mining proposals) (Upload pdf only)							
	€.								
	d.	Upload Cover Letter duly signed by the project proponent or authorized person (Upload pdf inity)							
	e.	Upload a copy of authorization duly signed by the project proponent in support of the person making this application on behalf of the User Agency (Upload pdf only)							
	f.	Upload Additional File, if any (Upload pdf only)							
13	Unde	Undertaking							
	a.	I hereby give undertaking that the data and information given in the app enclosures are true to be best of my knowledge and belief and I am aware that i the data and information found to be false or misleading at any stage, the pro- rejected and clearance given, if any to the project will be revoked at our risk	f any pa oject wil	nt o					
		addition to above, I hereby give undertaking that no activity / construction / er since been taken up	cpunsion	ha					
	b.	addition to above, I hereby give undertaking that no activity / construction / en	spunsion =	ha					
	h.	addition to above, I hereby give undertaking that no activity / construction / er since been taken up	cpunsion	ha					
	-	addition to above, I hereby give undertaking that no activity / construction / er since been taken up Name	-	ha					

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FORM 5 Table 56: Form 5 for Extension of Validity of TOR

FORM-5 APPLICATION FOR EXTENSION OF VALIBITY OF TOR

1	Details of Project							
	28.	Name of the Project (s)						
	b.		Company / Organ	isation			3	
	10	c. Registered Address						
	d.		s of the Company					
	e.	Joint Venture (Yes/No)						
	-	If Yes	- California Company					
		and the second second second	Partners(Multiple	Entries Allowed)				
	I No	ame of the JV	Share of the JV	Address of the	Email Id of	Mobile No	of	
		Partner	Partner	JV Partner	JV Partner	JV Partne	cr	
2	Add	ress for the co	rrespondence					
	8	Name of the						
	Ь		(Owner / Partner /	CEO)				
	6	Address	A STATE OF THE PARTY OF THE PAR	4.4.27				
	d	Pin code						
	6	e-mail						
	T.	Telephone ?	Vo.					
	8	Fax No.						
3			roject/Activity as p	er Schedule of F1	A Notification 2	2006		
	a.	4(b)(i)/4(b)	a)(ii) / 1(b) / 1(c) (ii) / 4(c) / 4(d) / 4					
		1.7 (g) / 7 (h) / 7 (i) / 8 (a) / 8 (b	b) 7(a) / 7(b) 7 (c				
	b.	/ 7 (g) / 7 (h Category (A) / 7 (i) / 8 (a) / 8 (b	b) 7(a) / 7(b) 7 (c			x .	
	b.	(7 (g) / 7 (h) Category (A If B ₁ or B ₂) / 7 (i) / 8 (a) / 8 (b /B ₁ /B ₂)	by 7(a) / 7(b)/ 7 (c)]) / 7 (d) / 7 (da)	/7 (e) /7 (f)	Ť	
	b.	(7 (g) / 7 (h) Category (A If B ₁ or B ₂) / 7 (i) / 8 (a) / 8 (b	by 7(a) / 7(b)/ 7 (c)]) / 7 (d) / 7 (da)	/7 (e) /7 (f)	7	
	b.	1.7 (g) / 7 (h Category (A If B ₁ or B ₂ Reason for If Others) / 7 (i) / 8 (a) / 8 (b /B ₂ /B ₂) application at Centr	by 7(a) / 7(b)/ 7 (c)]) / 7 (d) / 7 (da)	/7 (e) /7 (f)		
	e.	/ 7 (g) / 7 (h Category (A If B ₁ or B ₂ Reason for a If Others Please Spec) / 7 (i) / 8 (a) / 8 (b /B ₁ /B ₂) application at Centr	by 7(a) / 7(b)/ 7 (c)] al Level / State lev) / 7 (d) / 7 (da)	/7 (e) /7 (f)		
	c d	/ 7 (g) / 7 (h Cotegory (A If B ₁ or B ₂ Reason for a If Others Please Spec EAC concer (Coal Minin I / Industry-) / 7 (i) / 8 (a) / 8 (b) / B ₁ /B ₂) application at Centr ify med (for cutegory A g / Non-coal Minin II / Infrastructure-I	h)/ 7(a) / 7(b)/ 7 (c) al Level / State lev Projects only) ag / Thermal / Rive	of (in case of H ₂ r Valley & Hydr	/ 7 (e) / 7 (f) projects) e / Industry-	2	
4	c d	17 (g) / 7 (h Category (A If B ₁ or B ₂ Reason for a If Others Please Spec EAC concer (Coal Minin I / Industry- ation of the Pr) / 7 (i) / 8 (a) / 8 (b) /B ₁ /B ₂) application at Centr ify med (for cutegory A ng / Non-coal Minin II / Infrastructure-1 nject	h)/ 7(a) / 7(b)/ 7 (c) al Level / State lev Projects only) ag / Thermal / Rive	of (in case of H ₂ r Valley & Hydr	/ 7 (e) / 7 (f) projects) e / Industry-	2	
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Page 7 of 17

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12	Doc	uments to be att									
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	b.	Upload revised pre-feasibility report (in case of amendment in ToR al- required)									
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463802/2021/IA_I

Detailed Project Report: CPC- Green

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d.	Company	*
e.	Address	

FORM 6 Table 57: Form 6 for Extension of Validity of EC

APPLICATION FOR EXTENSION OF VALIDITY OF ENVIRONMENTAL CLEARANCE

1	Details ofProject										
	n.	Name of the	Project (i)				1				
	b.		Company / Organ	isation			1				
	£.	Registered Address Legal Status of the Company Joint Venture (Yes/No)									
	4.										
	6.										
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		(i) No. of JA	Fartners(Multiple	Entries Allowed)			1				
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	b		(Owner / Partner /	CEOi			2				
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Page 11 of 17

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	(ii) Upload copy of consent to establishment (Lpload pdf only)										
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	(iv) Valid up to										
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14	Deta	ails of EIA Consultant						
	it.	Have you hired Consultant for preparing document(Yes/No)?	t					
		If No.						
		(i) Reason for not engaging the Consultant	1	+				
		If Yes,						
		(i) Accreditation No.	1	_				
		(ii) Name of the EIA Consultant	3	1				
		(iii) Address.						
		(iv) Mobile No.	I	1				
		(v) Lundline No.	1	-				
		(vi) E-mail Id	21	_				
		(vii) Category of Accreditation (Eligible for Category A / Eligible for Category B)	ī					
		(viii) Sector of Accreditation	1:					
		(ix) Validity of Accreditation	1					
		 (x) Upload Certificate of Accreditation certified by QCLNABET (Upload pdf (Only) 	1					
15	Docs	Documents to be attached						
	a.	Upload addendum to EIA/EMP Report (in case of amendment in environmental clearance also sought)						
	b.	Upload Copy of revised - Feasibility Report/ Detailed Project Report(DPR) /Detailed Engineering Report /Detailed Conceptual Plan / Approved Mining Plan (in case of Mining proposals) (in case of amendment in environmental clearance also sought)(Upload pdf only)						
	6.	Upload Copy of Final Layout Plan (Upload pdf anly)(in case of amendment in environmental clearance also sought)						
	d.	Upload Cover Letter duly signed by the project proponent or authorized person (Upload pdf only)		Г				
	e.	Upload a cupy of authorization duly signed by the project proponent in support of the person making this application on behalf of the User Agency (Upload pull only)						
	f.	Upload Additional File, if any (Upload pdf only)						
6	Unde	rtaking						
		I hereby give undertaking that the data and information given in the applienclosures are true to be best of my knowledge and belief and I am aware that it the data and information found to be false or misleading at any stage, the provejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / exsince been taken up	any ject	part o will b				
	b.	Name	F					
	e.	Designation	È					
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H	d	Company	1					

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FORM 7 Table 58:Form 7 for Transfer of EC

FORM-T APPLICATION FOR TRANSFER OF ENVIRONMENTAL CLEARANCE

L		ic of the Projec									
1	The Control of the Co										
	Name of the Company / Organisation.										
	b.	Registered.	Address				t				
П	16.	c. Legal Status of the Company									
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	(i) No. of JV Partners (Multiple Entries Allowed)										
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	100	Partner	Partner	JV Partner	JV Partner	JV Part					
							-				
	Deta	ills of New Pro	ject Proponent		-	_	_				
			Company / Organ	instine			1,				
	b.	Registered					+				
	6		of the Company				H				
	d	Joint Ventur					+				
	6.	HYes.	E-1 48/1400				1				
	1		Burtone (84) feb. (Combin Albert A			#				
	(i) No, of JV Partners (Multiple Entries Allowed) Name of the JV Share of the JV Address of the Email Id of Mubile No. of										
	0.0	Partner		The second secon	Email Id of						
	Partner Partner JV Partner JV Pa										
	Address for the correspondence										
-		ress for the co	rrespondence								
	h h	Name of the	approant	Annual Control			12				
-	177		(Owner / Partner /	CEO			1				
	6,	Address									
	-0	Pin onde									
	10	c-mail									
	f	Telephone N	io.								
	H.	Fax. No.	0.0								
	Cate	gory of the Pr	nject/Activity as p	er Schedule of EL	A Notification.2	006					
	R-	Project / Act	Ivity				Г				
	1	[1(a)(i) / 1(a	0(ii) / 1(b) / T(c) /	1(d) / 1 (e) / 2(a)) / 2(b) / 3(a) / 3	3(b) / 4(a) /	1				
		4(ti)(i)/4(b)	(ii) / 4(c) / 4(d) / 4	(in) 7.4(f) 7.5(a) 7.5((b) / 5(c) / 5(d) /	Sigh / 500/	1				
		3(0) / 5(0) / 3	5(0) 7:5(D / 60a)/ 6(t	b)/ 7(a) / 7(b)/ 7 to) / 7 (d) / 7 (da) /	7(0)/7(0)	1				
		17.78(17.70)	/7(i)/8(ii)/8(b)		S. 155 C. 124.	10000000					
	b.	Category (A	B ₀ /B ₂)				1				
		If By or By	201000				100				
			pplication at Contr	d Level / State leve	el (in case of B-	miecto)	te.				
		Reason for application at Central Level / State level (in case of B ₂ projects). If Others									
	4.	Please Speci	EV.				E				

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5	Detai	ds of Environmental Clearance						
	2.	Date of Issue of Environmental Clearance	1					
	b	MoEF&CC / SEIAA File No.						
	0	Upload EC letter (PDF Only)						
6	Detai	ls of Consent to Establishment						
	(6)	Whether Consent to Establishment obtained (Yes/No)?						
		If yes,						
	(11)	Upload copy of Consent to Establishment obtained (Upload pdf only)						
	(iii)	Date of issue						
	(iv)	Valid up to						
	(v)	File No.						
	(vi)	Application No.	_	-				
_	(viii)	Upload Copy of Consent to operate valid as on date if any (Upload pdf only)		-				
7	projec	of Implementation of the project (physical progress made on the chlacilities/activities for which environmental clearance was granted						
_	-	Upload details (PDF)		-				
N.	Docu	ments to be attached						
	B.	Upload No Objection from the transferor						
	b.	Upload undertaking by transferee stating regarding acceptance of the terms and conditions under which the prior environmental clearance was granted.						
	6.	Upload Copy of Transfer of the firm from competent authority						
	d.	Upload Cover Letter duly signed by the project proponent or authorized person (Upload pdf only)						
	e,	Uplead a copy of authorization duly signed by the project proponent in support of the person making this application on behalf of the User Agency (Uplead pull only)						
	15.	Uplead Additional File, if any (Upload pdf only)						
1	Unde	rtaking		-				
	а.	I hereby give undertaking that the data and information given in the applienclosures are true to be best of my knowledge and belief and I am aware that it the data and information found to be false or misleading at any stage, the projected and clearance given, if any to the project will be revoked at our risk addition to above. I hereby give undertaking that no activity / construction / expince been taken up	f any ject and	part o will be cost. h				
	b.	Name	1					
	45.	Designation	1					
	1	Company	-	-				
	4	Company						

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FORM 8 Table 59: Form 8 for Transfer of Terms of Reference

FORM-8 APPLICATION FOR TRANSFER OF TERMS OF REFERENCE

7	TALL	and the Best of	16.5								
1	Name of the Project (x)										
2	Details of Earlier Project Proponent a. Name of the Company / Organisation										
	AL.			isation			11				
	b.	171 171 171 171 171 171 171 171 171 171									
	14.		of the Company				1				
	d.		re (Yes/No)				1				
	1.0	If Yes,	rich barre	ALL STREET			13				
	(i) No. of JV Pariners (Multiple Entries Allowed)										
	- N	unse of the JV	Share of the JV	Address of the	Email Id of	Mobile N	o, of				
	11	Partner	Partner	JV Partner	JV Partner	JV Parts					
	11.				000 0000000	1000000	1000				
3	Det	alls of New Pro	ject Proponent			-	_				
-	2.		Company / Organ	isation			1- 1				
	b.	Registered /		1000000							
	4.		of the Company				12				
	d.	Joint Ventus									
-	4.	If Yes.	e tree out				1				
	100		Distance (Modeled	Fateler Attours			1				
-	(i) No. of JV Partners (Multiple Entries Allowed) Nume of the JV Share of the JV Address of the Email ld of Mobile										
	Partner Partner JV Partner JV Partner JV Par										
	11-										
-	1100										
4		ress for the co									
	8	Name of the	applicant								
	-h		(Owner / Partner /	CEO)			I.				
	1.6	Address									
	d	Pin code									
	0	e-mail									
	1.	Telephone N	10.								
	16-	Fax No.									
5	Cate	gory of the Pr	oject/Activity as p	er Schedule of EL	A Notification.2	006					
	R.	Project / Act	ivity								
	1111		0(ii) / I(b) / I(c) /	160 / 1 (e) / 2(e)	1 / 200 / 300 / 3	300 / 400 /					
		4(b)(i)/ 4(b)	(ii) / 4(c) / 4(d) / 4	(e) / 4(f) / 5(a) / 5	this / Sten / Steh /	5(4) / 5(0 /					
		5(g)/5(h)/3	5(i) / 5(j) / 6(a)/ 6(l	ov 7(a) / 7(b) 7 to	1/7 (d) / 7 (da)	7(e)/7(f)	1				
		/7(g)/7(h)	/7(i)/8(a)/8(b	11		177					
	b.	Category (A					27				
		If B ₁ or B ₂	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA								
			pplication at Centre	d Lovel / State base	of the case of the	and auto's					
		If Others	Description of Court	1 Aver / State leve	er rim ense on 19-1	projects:					
	6.	Please Speci	60				3				
	40	A rease space	2				2)				
5	Dete	ils of Terms of	Deference								
47	17010	me of a campa of	PACIEICE								

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	1.	Date of issue of Terms of Reference	1	
	b	MoEF&CC / SEIAA File No.		
	c	Upload ToR letter (PDF Only)		
6	Doc	uments to be attached		
	2.	Upload No Objection from the transferor		
	b.	Upload undertaking by transferee stating regarding acceptance of the terms and conditions under which the ToR was granted.		
	€.	Upload Copy of Transfer of the firm from competent authority		
	d.	Upload Cover Letter duly signed by the project proponent or authorized person (Upload pelf only)		
	6.	Upload a copy of authorization duly signed by the project proponent in support of the person making this application on behalf of the User Agency (Upload pdf only)		
	1.	Upload Additional File, if any (Upload pdf only)		
1	Und	ertaking		
	a.	I hereby give undertaking that the data and information given in the app	licari	OH DH
		enclosures are true to be best of my knowledge and belief and I am aware that I the data and information found to be faine or misleading at any stage, the pro- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / ex- since been taken up	f any sject and	part of will be cost. It
	b,	the data and information found to be faine or misleading at any stage, the pre- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / ex	f any sject and	part of will be cost. It
	b,	the data and information found to be faine or misleading at any stage, the pro- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / ex- since been taken up	fany sject and pans	part o will b
	100	the data and information found to be faine or misleading at any stage, the pro- rejected and clearance given, if any to the project will be revoked at our risk addition to above, I hereby give undertaking that no activity / construction / ex- since been taken up.	f any sject and a pans	part o will b

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Figure 71: Form A, B C for Forest Conservation, FORM-A

Form for seeking prior approval of Central Govt. under section-2 of the Forest (Conservation)
Act,

1980 for diversion of fresh Forest Area. PART-I

A. General Details

A-1 Project Details

- Name of Project for which Forest Land is required.
- Short narrative of the proposal and Project/scheme for which the forest land is required
- 3. State
- Category of the Project (Borehole Prospecting, Defence, Dispensary/Hospital, Disputed

Settlement Claims, Drinking Water, Encroachments, Forest Village Conversion, Hydel, Irrigation, Mining, Railway, Rehabilitation, Road, School, Thermal, Transmission Line, Village Electricity, Wind Power, Industry, Quarrying, Others)

- Shape of project land proposed to be diverted (Linear, Non-linear and Hybrid)
- Estimated cost of the Project (In Lacs)
- Total period for which the forest land is proposed to be diverted (in years)(Optional)
- 8. Total Area of Forest Land proposed for diversion (In Hectares)
- Non-forest Land required for this Project (In Hectares)

A-2 Details of User Agency

- Name (Auto Fill)
- Address1 (Auto Fill)
- Address2 (Auto Fill)
- 4. State (Auto Fill)
- District (Auto Fill)
- Pin (Auto Fill)
- Landmarks (Auto Fill)
- 8. Email Address (Auto Fill)
- Landline Telephone No (Auto Fill)
- 10. Fax No. (Auto Fill)
- Mobile No. (Auto Fill)
- 12. Website (if any) (Auto Fill)
- Legal status of User Agency (Central Govt., State Govt., Central PSU, State PSU, Joint

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Venture (Pvt. + Govt.), Private, others)

- A-3 Details of Person Making Application
 - 1. First Name (Auto Fill)
 - Middle Name (Auto Fill)
 - Last Name (Auto Fill)
 - 4. Gender (Auto Fill)
 - Designation (Auto Fill)
 - Address 1 (Auto Fill)
 - Address 2 (Auto Fill)
 - 8. State (Auto Fill)
 - District (Auto Fill)
 - 10. Pin (Auto Fill)
 - 11. Landmarks (Auto Fill)
 - 12. Email Address. (Auto Fill)
 - Landline Telephone No (Auto Fill)
 - 14. Fax No (Auto Fill)
 - 15. Mobile No (Auto Fill)
 - Upload a copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency (pdf only)
- B. Details of Land required for the Project
 - B-1 Details of proposal seeking prior approval of Central Government under the Act for diversion of forest land for this Project already submitted in the past;
 - Whether any proposal seeking prior approval of Central Government under the Act for diversion of forest land required for this project has been submitted in the past. (Yes/No)
 - a. If yes, then, Select the Proposal Otherwise select No

B-2	Prop osal Stat us	Prop osal No	Prop osal Na me	Mo EF Fil e	Area Propose d for Diversi	Are a Diver ted	Date of In- Princi ple	Date of Fin al
	00000			N	(Ha.)	(Ha	Appro	Appro
				0.		.)	val	val

Details of forest land proposed to be diverted:

1. No. of Divisions (Nos.)

B-2.1 Division wise details of land

- 1. Division Name
- 2. Forest Land (In Hectares)
- Non-Forest Land (In Hectares)

B-2.2 Details of Districts involved

No. of Districts (Nos.)

District wise breakup

- 1. District Name
 - Forest Land (In Hectares)
 - Non-Forest Land (In Hectares)

B-2.3 Village wise breakup (Note: Multiple entries of villages allowed)

- Village Name
- 2. Forest Land (In Hectares)
- Non-Forest Land (In Hectares)

B-2.4 Component wise breakup (Note: Multiple entries of Component allowed) If, shape of project land proposed to be diverted is Linear, then

Component wise linear breakup (Note: 1Km square=100ha.):

- Component
- 2. Forest Land

- a. Length (In Km) b. Width (In Km) c. Area (In Hectares)
- Non-Forest Land
 - a. Length (In Km)
 - b. Width (In Km)
 - c. Area (In Hectares)

If, shape of project land proposed to be diverted is Non-Linear, then, Component wise Non-Linear breakup:

- a. Component
- b. Forest Land (In Hectares)
- c. Non-Forest Land (In Hectare)

If, shape of project land proposed to be diverted is Hybrid, then, provide the details of

Component wise Non-Linear/Linear breakup as above.

C. Maps of forest land proposed to be diverted (Note: Multiple entries of division wise

patches/segments are allowed.)

- Division name
- 2. Area (In Hectare)

If, shape of project land proposed to be diverted is Non-Linear, then, Enter Patch wise details

- Select No. of Patches
 - a. Area of Patch (In Hectares)
 - Upload KML File (kml format only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating boundary of forest land proposed to be diverted (pdf only)
- Upload a scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using DGPS or Total Station (pdf only)

If, shape of project land proposed to be diverted is Linear, then, Enter segment wise details

- Select No. of Segments
 - Area of Segment (In Hectares)
 - Upload KML File (kml format only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating boundary of forest land proposed to be diverted (pdf only)

463802/2021/IA

3. Upload a scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using DGPS or Total Station (pdf only)

If, shape of project land proposed to be diverted is Hybrid, then, Enter both Patch and Segment wise details as above.

- D. Justification for locating the Project in forest land and details of alternates examined
 - Upload a copy of note containing justification for locating the Project in forest land (pdf) only)
 - 2. Whether a copy of map indicating location of alternative examined is required be provided? (Yes/No)
 - a. If yes, then, 'Upload a copy of map indicating location of alternative examined'.
 - If No, then 'Enter reason for not providing such map'
- E. Employment likely to be generated
 - Whether the project is likely to generate employment? (Yes/No)
 - a. If yes, then,
 - Permanent/Regular Employment (Number of persons)
 - Temporary Employment (Number of person-days)
- F. Displacement of People due to the project, if any
 - 1 Whether project involves displacement? (Yes/No)
 - a. If yes, then,
 - i. Total Number of Families
 - ii. Number of Scheduled Caste families
 - iii. Number of Scheduled Tribes families
 - iv. Number of other families
 - v. Upload a copy of Rehabilitation and Resettlement Plan (pdf only)
 - vi. Upload a copy of approval of Ministry of Tribal Affairs, Government of India to Rehabilitation and Resettlement plan (Note: If Number of Scheduled Tribes families are greater than o) (pdf only)
- G. Details of Cost-Benefit analysis for the Project
 - Whether the Project requires Cost-Benefit analysis? (Yes/No)
 - a. If yes, then, 'Upload a copy of Cost-Benefit analysis' + (pdf only)

H. Status of Environmental Clearance

- Whether the Project requires Clearance under the Environment (Protection) Act 1986? (Yes/No)
 - a. If yes, then,
 - Provide the Status of the Environmental Clearance Project (EC Obtained, under process, application yet to be submitted etc.)

I. Status of Wildlife Clearance

- Whether the Project or a part thereof is in any Protected Area or their Eco sensitive zone? (Yes/No)
 - a. I If yes, then,
 - i. Whether Project or a part thereof is located within a Protected Area? (Yes/No)
 - A. If yes then,
 - Status of approval of the Supreme Court (Approval obtained, under consideration, Application yet to be submitted)
 - ii. Status of approval of the Standing Committee of National Board for the Wildlife (NBWL) to the Project
 - a. Status of NBWL (Approval obtained, under consideration, Application yet to be submitted)
- J. Applicability of special provisions governing Scheduled Areas
 - Whether the Project or a part thereof is located in a Scheduled Area (Yes/No)?
- K. Status of settlement of rights under the Forest Rights Act,2006 on the forest land proposed to be diverted
 - Whether the process for settlement of Rights under the Forest Rights Acts 2006 on the forest land proposed to be diverted has been completed?
 - a. If yes, then,
 - Upload a copy of documentary evidence in support of settlement of rights under the Forest Rights Act,2006 on the forest land proposed to be diverted (pdf only)

- L. Details of land identified for Compensatory Afforestation
 - Whether non-forest or Revenue forest land is required to be provided by User Agency? (Yes/No)
 - a. If yes, then,
 - i. Select No. of patches
 - ii. No. of districts involved for raising Compensatory Afforestation

Patch wise details

- 1. District
- Enter Village
- 3. Area (In hectare)
- Upload KML file (.kml only)
- Enter khasra details
- Present owner
- Upload a scanned copy of the map of the land identified for creation of Compensatory Afforestation prepared by using GPS or Total Station (pdf only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating location of the land identified for creation of Compensatory Afforestation (pdf only)
- b. If No, then
 - i. Reason for not providing Non-Forest Land
- Whether the area of non-forest land or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation is less than area of forest land proposed to be
 - diverted? (Yes/No)
 - a. If yes, then,
 - i. Provide reasons thereof
 - ii. Area of non-forest or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation
- M. Mining Details (If Category of Proposal is Mining
 - M-1 Details of Mineral Concessions
 - Whether the forest land is acquired under Coal Bearing Areas Act? (Yes/No)
 - a. If yes, then,
 - i. Total area of the mining lease (In Hectares)
 - ii. Area of forest land located in the mining lease (In Hectares)
 - M-2 Details of Mining Plan
 - 1. Date of approval of mining plan

- 2. Approval authority
- Upload a copy of approval of mining plan (pdf only)
- 4. Upload a copy of approved mining plan (pdf only)
- Nature of mining (underground/opencast)
- Upload a copy of map of the outer boundary of mining lease area (pdf only)
- Upload a copy of the detailed land use plan in 1:4,000 scale prepared by using DGPS or

Total Station (.kml only)

- M-3 Details of prospecting undertaken to assess mineral reserves
 - Whether detailed prospecting to assess mineral reserve in the lease has been undertaken? (Yes/No)
 - a. If yes, then,
 - Designation of authority responsible for grant of the original prospecting licence
 - ii. Date of grant of prospecting licence
 - Period of validity of extension prospecting licence From date
 - iv. To Date
 - v. Upload a copy of the prospecting licence
- M-4 Details of extension (if any) of original prospecting licence issued in the past
 - Whether extension of original prospecting licence was extended? (Yes/No)
 - a. If yes, then,
 - Designation of authority responsible for extension of the prospecting licence
 - ii. Date of extension of prospecting licence
 - Extension of validity of prospecting licence From date
 - iv. To Date
 - v. Upload a copy of the approval accorded for extension of the prospecting licence
- M-5 Brief details of prospecting activities undertaken in the mining lease
 - Detail of prospecting activity undertaken in the mining lease
 - M-5.1 Details of bore holes drilled for prospecting
 - In forest land
 - No. of Bore holes (Nos.)

- b. Diameters (inch)
- 2. In non-forest land
 - a. No. of Bore holes (Nos.)
 - b. Diameters (inch)

M-5.2 Estimated Reserve along with accuracy and confidence level

- 1. Mineral
 - a. Mineral
- 2. Estimated Reserve in forest land
 - a. Estimated Reserve (million tonnes)
 - b. % accuracy (+ -) c. % confidence level
- 3. Estimated Reserve in non-forest land
 - a. Estimated Reserve (million tonnes)
 - b. % accuracy (+-)
 - c. % confidence level
- M-6 Details of approval under the Forest (Conservation) Act,1980 obtained for undertaking

prospecting activities in the forest land located in the mining lease

- Whether approval under the Forest (Conservation) Act, 1980 for undertaking
 - prospecting activities in the forest land located in the mining lease have been obtained?

(Yes/No)

- a. If yes, then,
 - i. Date of approval
 - ii. Area of forest land diverted (In Hectares)
 - iii. Period of validity of approval From Date
 - iv. To Date
 - Upload a copy of the approval accorded by the MoEF (pdf only)

M-7 Mineral wise details

- 1. Number of minerals
- Minerals (Aluminium, Copper, Bauxite etc.)
- Estimated reserve in non-forest land (million tonnes)
- Estimated reserve in forest land (million tonnes)
- Proposed annual extraction (million tonnes)
- Estimated life of mine (years)

- Total Proposed extraction during mining lease period (million tonnes)
- Estimated mineral reserve at the end of mining lease (million tonnes)

Proposed use of the minerals to be raised from the mining lease

- Proposed use of the minerals proposed to be raised from the mining lease (Captive, Non- Captive, Captive + Non-Captive)
- Upload a copy of note containing details of the plan for the transportation of the minerals proposed to be raised from the mining lease (pdf only)
- M. Irrigation and Hydel Details (If Category of Proposal is Irrigation or Hydel)
 - Installed power generation capacity of the project (in MW)
 - a. If Installed power generation capacity of the project is greater than 9 MW then
 - Upload a copy of the approval of competent authority to the Catchment Area Treatment Plan (CAT Plan) (pdf only)
 - Upload a copy of the approved CAT plan (pdf only)
 - 2. Total command area of the project (In Hectares)

Additional Information (if any) (Note: Multiple entries allowed)

- Upload Additional Information (pdf only)
- 2. Remarks

FORM-B

Form for seeking prior approval under Section-2 of the proposals by the State
Governments and other
authorities in respect of renewal of leases, which have been earlier granted clearance
under
(Conservation) Act, 1980

PART-I

A. General Details

A-1 Project Details

- Name of Project for which Forest Land is required.
- Short narrative of the proposal and Project/scheme for which the forest land is required
- 3. State
- Category of the Project (Borehole Prospecting, Defence, Dispensary/Hospital, Disputed

Settlement Claims, Drinking Water, Encroachments, Forest Village
Conversion, Hydel,
Irrigation, Mining, Railway, Rehabilitation, Road, School, Thermal,
Transmission Line, Village
Electricity, Wind Power, Industry, Quarrying, Others)

- Shape of project land proposed to be diverted (Linear, Non-linear and Hybrid)
- Estimated cost of the Project (In Lacs)
- Total period for which the forest land proposed to be diverted (in years) (Optional)
- 8. Total Area of Forest Land proposed for diversion (In Hectares)
- Non-Forest Land required for this Project (In Hectares)

A-1 Details of User Agency

- Name (Auto Fill)
- Address1 (Auto Fill)
- Address2 (Auto Fill)
- 4. State (Auto Fill)
- District (Auto Fill)
- 6. Pin (Auto Fill)
- Landmarks (Auto Fill)
- Email Address (Auto Fill)
- Landline Telephone No (Auto Fill)
- 10. Fax No. (Auto Fill)
- Mobile No. (Auto Fill)
- 12. Website (if any) (Auto Fill)

465729/2021/NA

Detailed Project Report: CPC- Green

 Legal status of User Agency (Central Govt., State Govt., Central PSU, State PSU, Joint Venture (Pvt. + Govt.), Private, others

Details of Proposals seeking prior approval of Central Government under the Act for diversion of forest land submitted by the User Agency in the past.

- A-2 Details of Person Making Application
 - First Name (Auto Fill)
 - Middle Name (Auto Fill)
 - 3. Last Name (Auto Fill)
 - Gender (Auto Fill)
 - Designation (Auto Fill)
 - Address 1 (Auto Fill)
 - Address 2 (Auto Fill)
 - 8. State (Auto Fill)
 - 9. District (Auto Fill)
 - 10. Pin (Auto Fill)
 - 11. Landmarks (Auto Fill)
 - Email Address. (Auto Fill)
 - 13. Landline Telephone No (Auto Fill)
 - Fax No (Auto Fill)
 - Mobile No (Auto Fill)
 - Upload a copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency (pdf only)
- A-3 Details of approvals under the Forest (Conservation) Act, 1980 accorded in the past
 - 1. Proposal No
 - 2. MoEF File No
 - 3. Area of forest land diverted
 - 4. Period of diversion
 - Date of approval
- A-4 Status of compliance to conditions stipulated in the previous approvals
 - Proposal No
 - 2. MoEF File No
 - Conditions stipulated by the MoEF
 - 4. Details of the compliance
- A-5 Details of payments made in respect of the approval under the Forest
 (Conservation)
 Act,
 1980 accorded in the past

- 1. Proposal No
- 2. MoEF File No
- 3. Item/Nature
- 4. Amount paid (in Rupees)
- 5. Date of Payment
- A-6 Details of the forest land returned back to the State Forest Department or any other

Authority from the forest land diverted in favour of the user agency

- Whether a part of the forest land diverted in favour of the user agency has been returned to the State Forest Department or any other Authority? (Yes/No)
 - a. If yes, then,
 - i. No. of patches of the forest land returned /surrendered
 - Area of the forest land returned/surrendered
- A-7 Details of the forest land proposed to be returned/surrendered to the State Forest

Department or any other Authority from the forest land diverted in favour of the user

agency

- Whether a part of the forest land diverted in favour of the user agency is proposed to be returned/ surrendered to the State Forest Department or any other Authority at the time of renewal of the lease? (Yes/No)
 - a. If yes, then,
 - No. of patches of the forest land proposed to be retuned /surrendered
 - Area of the forest land proposed to be returned /surrendered

A-8 Details of Transfer of Lease, if any

- Name of the original lessee agency at the time of grant/previous renewal of the lease
- Address of the original lessee agency at the time of grant/previous renewal of the lease 3. Whether the lease was transferred from the original lessee agency at the time of

grant/previous renewal of the lease to any other firm/person? (Yes/No)

a. If yes, then,

Details of transfer of lease from the original user agency lessee to the current lessee in the chronological order

- Name of the firm or person in whose favour the lease was transferred.
- Address of the firm or person in whose favour the lease was transferred
- Date of transfer of lease
- 4. Upload a copy of the order of competent authority under MMDR Act, 1958 for transfer

of lease (pdf only)

- Upload a copy of the transfer deed (pdf only)
- Whether the approval under the forest (Conservation) Act, 1980 for transfer of lease has been obtained? (Yes/No)
 - a. If yes, then,
 - i. MoEF File No
 - ii. Date of approval
 - iii. Upload a copy of the MoEF approval (pdf only)
- B. Details of Land required for the Project

B-1 Details of proposal seeking prior approval of Central Government under the Act for diversion of forest land for this Project already submitted in the past

 Whether any proposal seeking prior approval of Central Government under the Act for diversion of forest land required for this project has been submitted in the past? (Yes/No)

a. If yes, then,

7	Proposal Status	Proposal No.	Proposal Name	MoEf File No.	Area Proposed for Diversion (Ha.)	Area Diverted (Ha.)	Date of In- Principle Approval	Date of Final Approval
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- B-1 Details of forest land proposed to be diverted
 - No. of Divisions (Nos.)

B-2.1 Division wise details of land

- Division Name
- 2. Forest Land (In Hectares)
- Non-Forest Land (In Hectares)

B-2.2 Details of Districts involved

No. of Districts (Nos.)

District wise breakup

- 1. District Name
 - Forest Land (In Hectares)

Non-Forest Land (In Hectares)

B-2.3 Village wise breakup (Note: Multiple entries of villages allowed)

- Village Name
- Forest Land (In Hectares)
- Non-Forest Land (In Hectares)

B-2.4 Component wise breakup (Note: Multiple entries of Component allowed) If, shape of project land proposed to be diverted is Linear, then

Component wise linear breakup (Note: 1Km square=100ha.)

- Forest
- Land

Details

- a. Component
- Length (In Km)
- c. Width (In Km)
- d. Area (In Hectares)
- Non-Forest Land Details
 - a. Component
 - b. Length (In Km)
 - c. Width (In Km)
 - d. Area (In Hectares)

If, shape of project land proposed to be diverted is Non-Linear, then, Component wise Non-Linear breakup

- a. Component
- b. Forest Land (In Hectares)
- c. Non-Forest Land (In Hectare)

If, shape of project land proposed to be diverted is Hybrid, then, provide the details

Component wise Non-Linear and Linear breakup as above.

- C. Maps of forest land proposed to be diverted (Note: Multiple entries of division wise patches are allowed.)
 - Division name
 - Area (In Hectare)

If, shape of project land proposed to be diverted is Non-Linear, then, Enter Patch wise details

- Select No. of Patches
 - a. Area of Patch (In Hectares)
 - b. Upload KML File (kml format only)
- Upload a copy of Survey of India Toposheet indicating boundary of forest land proposed to

be diverted (pdf only)

 Upload a scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using DGPS or Total Station (pdf only)

If, shape of project land proposed to be diverted is Linear, then, Enter Segment wise details

- 1. Select No. of Segment
 - a. Area of Segment (In Hectares)
 - b. Upload KML File (kml format only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating boundary of forest land proposed to be diverted (pdf only)
- Upload a scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using DGPS or Total Station (pdf only)

If, shape of project land proposed to be diverted is Hybrid, then, Enter both Patch and Segment wise details as above.

- D. Justification for locating the Project in forest land and details of alternates examined
 - Upload a copy of note containing justification for locating the Project in forest land (pdf only)
 - Whether a copy of map indicating location of alternative examined is required to be provided (Yes/No)
 - a. If yes, then, 'Upload a copy of map indicating location of alternative examined'.
 - If No, then Enter reason for not providing such map'
- E. Employment likely to be generated
 - Whether project is likely to generate employment? (Yes/No)
 - a. If yes, then,
 - Permanent/Regular Employment (Number of persons)
 - Temporary Employment (Number of person-days)
- F. Displacement of People due to the project, if any
 - 1 Whether project involves displacement? (Yes/No)
 - a. If yes, then,
 - i. Total Number of Families
 - ii. Number of Scheduled Caste families
 - iii. Number of Scheduled Tribes families
 - iv. Number of other families
 - Upload a copy of Rehabilitation and Resettlement Plan (pdf only)
 - vi. Upload a copy of approval of Ministry of Tribal Affairs, Government of India to Rehabilitation and Resettlement plan (Note: If, Number of Scheduled Tribes families greater then o)

- G. Details of Cost-Benefit analysis for the Project
 - 1.Whether the Project requires Cost-Benefit analysis? (Yes/No)
 - a. If yes, then, 'Upload a copy of Cost-Benefit analysis'
- H. Status of Environmental Clearance
 - 1. Whether, the Project requires Clearance under the Environment (Protection) Act 1986 (Yes/No)?
 - a. If yes, then,
 - Status of the Environmental Clearance to the Project (EC Obtained, under process, application yet to be submitted etc.)
- I. Status of Wildlife Clearance
 - Whether, the Project or a part thereof is located in any Protected Area or their Eco sensitive zone? (Yes/No)
 - a. I If yes, then,
 - Whether Project or a part thereof is located within a Protected Area? (Yes/No)
 - A. If yes, then,
 - a. Status of approval of the Supreme Court (Approval obtained, under consideration, Application yet to be filled)
 - Status of approval of the Standing Committee of National Board for the Wildlife(NBWL) to the Project
 - Status of NBWL (Approval obtained, under consideration, Application yet to be filled)
- J. Applicability of special provisions governing Scheduled Areas
 - Whether the Project or a part thereof is located in a Scheduled Area (Yes/No)?
- K. Status of settlement of rights under the Forest Rights Act,2006 on the forest land proposed to be diverted
 - Whether the process for settlement of Rights under the Forest Rights Acts 2006 on the forest land proposed to be diverted has been completed?
 a. If yes, then,
 - Upload a copy of documentary evidence in support of settlement of rights under the Forest Rights Act,2006 on the forest land proposed to be diverted (pdf only)

- L. Details of land identified for Compensatory Afforestation
 - Whether non-forest or Revenue forest land is required to be provided by User Agency? (Yes/No)
 - a. If yes, then,
 - i. Select No. of patches
 - ii. No. of districts involved for raising Compensatory Afforestation

Patch wise details

- District
- Enter Village
- 3. Area (In hectare)
- Upload KML file (.kml only)
- Enter khasra details
- Present owner
- Upload a scanned copy of the map of the land identified for creation of Compensatory Afforestation prepared by using GPS or Total Station (pdf only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating location of the land identified for creation of Compensatory Afforestation (pdf only)
- b. If No, then
 - i. Reason for not providing Non-Forest Land
- Whether the area of non-forest land or Revenue forest land required to be provided by User

Agency for raising Compensatory Afforestation is less than area of forest land proposed to be

diverted? (Yes/No)

- a. If yes, then,
 - i. Provide reasons thereof
 - Area of non-forest or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation

M. Mining Details

- M-1 Details of grant/renewal of mining lease in the past
 - Period
 - Date of grant/renewal of the mining lease
 - Designation of authority for grant of the mining lease
 - 4. Upload a copy of the order for grant of the mining lease
 - 5. Date of execution of the lease deed
 - Upload a copy of the lease deed

- (i) Nature and quantity of mineral actually extracted from the forest and non-forest land located in the mining lease vis-a vis the qty. of each mineral proposed for extraction at the time of the grant/renewal of previous lease
 - 1. Mineral
 - Qty. of ore proposed to be extracted during the lease period(million tonnes)
 - i. Forest land
 - ii. Non-forest land
 - Qty. of ore actually extracted during the lease period(million tonnes)
 - i. Forest land
 - ii. Non-forest land
- (ii) Whether application under the Mineral Concession Rules, 1960 for renewal of the mining lease has been submitted?
 - a. If yes, then,
 - i. Date of submission of application

Details of area proposed to be renewed

- Area of forest land proposed to be renewed (In Hectare)
- Area of non-forest land proposed to be renewed (In Hectare)
- Total area proposed to be renewed (In Hectare)
- Status of application? (Under consideration at State Government, Agreed in principal
 of

renewal, Agreed for renewal and Rejected)

M-2 Details of Mining Plan

- Date of approval of mining plan
- 2. Approval authority
- Upload a copy of approval of mining plan (pdf only)
- Upload a copy of approved mining plan (pdf only)
- Nature of mining (underground/opencast)
- Upload a copy of map of the outer boundary of mining lease area (pdf only)
- Upload a copy of the detailed land use plan in 1:4,000 scale prepared by using DGPS

Total Station (.kml only)

M-3 Details of prospecting undertaken to assess mineral reserves

Whether detailed prospecting to assess mineral reserve in the lease has been

undertaken? (Yes/No)

a. If yes, then,

- Designation of authority responsible for grant of the original prospecting licence
- ii. Date of grant of prospecting licence
- Period of validity of extension prospecting licence From date
- iv. To Date
- v. Upload a copy of the prospecting licence

M-4 Details of extension (if any) of original prospecting licence issued in the past

- Whether extension of original prospecting licence was extended? (Yes/No)
 - a. If yes, then,
 - vi. Designation of authority responsible for extension of the prospecting licence
 - vii. Date of extension of prospecting licence
 - viii. Extension of validity of prospecting licence From date
 - ix. To Date
 - x. Upload a copy of the approval accorded for extension of the prospecting licence
- M-5 Brief details of prospecting activities undertaken in the mining lease
 - Details of prospecting activity under taken in the mining lease

M-5.1 Details of bore holes drilled for prospecting

- 1. In forest land
 - a. No. of Bore holes
 - b. Diameters (inch)
- 2. In non-forest land
 - a. No. of Bore holes
 - b. Diameters (inch)

M-5.2 Estimated Reserve along with accuracy and confidence level

- 1. Mineral
 - a. Mineral
- 2. Estimated Reserve in forest land
 - Estimated Reserve (million tonnes)

- b. % accuracy (+-)
- c. % confidence level
- 3. Estimated Reserve in non-forest land
 - a. Estimated Reserve (million tonnes)
 - b. % accuracy (+ -)
 - c. % confidence level

M-6 Details of approval under the Forest(Conservation) Act,1980 obtained for undertaking prospecting activities in the forest land located in the mining lease

1. Whether approval under the Forest (Conservation) Act, 1980 for undertaking prospecting activities in the forest land located in the mining lease have been obtained?

(Yes/No)

- a. If yes, then,
 - i. Date of approval
 - ii. Area of forest land diverted (In Hectares)
 - iii. Period of validity of approval From Date
 - iv. To Date
 - Upload a copy of the approval accorded by the MoEF (pdf only)

M-7 Mineral wise details

- Number of minerals
- Minerals (Aluminium, Copper, Bauxite etc.)
- Estimated reserve in non-forest land (million tonnes)
- Estimated reserve in forest land (million tonnes)
- Proposed annual extraction (million tonnes)
- Estimated life of mine (years)
- Total Proposed extraction during mining lease period (million tonnes)
- Estimated mineral reserve at the end of mining lease (million tonnes)

Proposed use of the minerals to be raised from the mining lease

- Proposed use of the minerals proposed to be raised from the mining lease (Capacitive, Non- Capacitive, Capacitive + Non Capacitive)
- Upload a copy note containing details of the plan for the transportation of the minerals proposed to be raised from the mining lease (pdf only)

- M. Irrigation and Hydel Details (If Category of Proposal is Irrigation or Hydel)
 - Installed power generation capacity of the project (in MW)
 - a. If Installed power generation capacity of the project is greater than 9 then
 - Upload a copy of the approval of competent authority to the Catchment Area Treatment Plan (CAT Plan) (pdf only)
 - ii. Upload a copy of the approved CAT plan (pdf only)

Total command area of the project (In Hectares)

Additional Information (if any) (Note: Multiple entries allowed)

- Upload Additional Information (pdf only)
- 2. Remarks

FORM-C

Form for seeking prior approval under section 2 of the proposals by the State
Governments and
other authorities for Prospecting of Minerals in Forest Land
PART-I

A. General Details

A-1 Project Details

- 1. Name of Project for which prospecting is proposed to be undertaken
- 2. State
- Estimated cost of the Project (In Lacs)
- Area of forest land required for prospecting (In Hectares)
- Total area of block required for prospecting (In Hectares)
- Total period for which the forest land is proposed to be utilized for prospecting (Years)
 - 1. Mineral Commodity
 - Mineral (Aluminium, Copper, Bauxite etc.)
 - Mineral commodity to be explored

A-2 Details of User Agency

- Name (Auto Fill)
- Addressi (Auto Fill)
- Address2 (Auto Fill)
- 4. State (Auto Fill)
- District (Auto Fill)
- 6. Pin (Auto Fill)
- 7. Landmarks (Auto Fill)
- 8. Email Address (Auto Fill)
- 9. Landline Telephone No (Auto Fill)
- 10. Fax No. (Auto Fill)
- 11. Mobile No. (Auto Fill)
- 12. Website (if any) (Auto Fill)
- Legal status of User Agency (Central Govt., State Govt., Central PSU, State PSU, Joint

Venture (Pvt. + Govt.), Private, others)

Details of Proposals seeking prior approval of Central Government under the Act for diversion of forest land submitted by the User Agency in the past.

- A-3 Details of Person Making Application
 - First Name (Auto Fill)
 - Middle Name (Auto Fill)

- Last Name (Auto Fill)
- 4. Gender (Auto Fill)
- Designation (Auto Fill)
- Address 1 (Auto Fill)
- Address 2 (Auto Fill)
- 8. State (Auto Fill)
- District (Auto Fill)
- 10. Pin (Auto Fill)
- 11. Landmarks (Auto Fill)
- Email Address. (Auto Fill)
- Landline Telephone No (Auto Fill)
- 14. Fax No (Auto Fill)
- Mobile No (Auto Fill)
- Upload a copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency (pdf only)

A-4 Details of Mineral Concessions

- Whether the forest land is acquired under Coal Bearing Areas Act? (Yes/No)
 - a. If yes, then,
 - Total area of the prospecting lease(In Hectares)
 - Area of forest land located in the prospecting lease(In Hectares)
 - iii. Upload a copy of Survey of India Topo-sheet(s), in original in 1:50,000 scale showing boundary of prospecting block; boundary of each patch of forest land located within the prospecting block; location of each sample plot or borehole site, roads or pathway (existing as well as new pathway to be shown separately) to be used for transportation of drilling equipment's; boundary of the adjoining forests and protected areas located within ten (10) Kilometres distance from boundary of forest land identified
 - iv. Upload a copy of map of the outer boundary of prospecting lease area (.kml only)
 - b. If No, then
 - i. Reference number of Letter of Intent for grant of prospecting

prospecting etc. (pdf only)

lease(approval letter of the State Mines and Geology Department)ogy Department)

- ii. Date of issue of the Letter of Intent (LOI) for grant of prospecting lease
- iii. Upload a copy the Letter of Intent (LOI) (pdf only)
- iv. Total area of the prospecting lease (In Hectares)
- Area of forest land located in the prospecting lease (In Hectares)
- vi. Upload a copy of Survey of India Topo-sheet(s), in original in 1:50,000 scale
 showing boundary of prospecting block; boundary of each
 patch of forest
 land located within the prospecting block; location of each
 sample plot or
 borehole site, roads or pathway (existing as well as new
 pathway to be
 shown separately) to be used for transportation of drilling
 equipment's;
 boundary of the adjoining forests and protected areas located
 within ten
 (10) Kilometres distance from boundary of forest land
 identified for
 prospecting etc. (pdf only)
- vii. Upload a copy of map of the outer boundary of prospecting lease area (.kml only)
- B. Details of Land required for the Project

B-1 Details of proposal seeking prior approval of Central Government under the Act for diversion of forest land for the Project already submitted in the past

- Whether any proposal seeking prior approval of Central Government under the Act for diversion of forest land required for this project has been submitted in the past? (Yes/No)
 - a. If yes, then,

7	Proposal Status	Proposal No.	Proposal Name	MoEF File No.	Area Proposed for Diversion (Ha.)	Area Diverted (Ha.)	Date of In- Principle Approval	Date of Final Approval
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B-2. Details of forest land proposed to be diverted

No. of Divisions (Nos.)

Division wise details of land

- 1. Division Name
- 2. Forest Land
- Non-Forest Land

B-2.2 Details of Districts involved

1. No. of Districts involved in Protected Area (Nos.)

District wise breakup

- 1. District Name
- Area under Protected Area
- 3. Area under Non-protected Area

C-1. Justification for undertaking prospecting in forest land

- 1. Justification for undertaking prospecting in forest land (pdf only)
- 2. Upload a copy of map indicating location of alternatives examined

C-2. Whether the forest land identified for prospecting is in Scheduled Area

- 1. Whether the forest land identified for prospecting is located in Scheduled Areas? (Yes/No)
- C-3. Details of activities proposed to be undertaken in forest land
 - Surface sampling
 - Surface sampling (Grab, Chip, and Groove Sampling etc.)
 - b. Area (In hectares)
 - 2. Pitting or trenching
 - a. Number of Pits
 - b. Width of Pits (In km)
 - c. Depth of Pits (In km)
 - d. Length of Pits (In km)
 - e. Total volume of excavation(tonnes)
 - Surface area (In hectares)
 - 3. Drilling of Boreholes
 - a. Number of Drills
 - b. Diameter (In inches)
 - c. Depth of boreholes (In metres)

- d. Area of forest land likely to be experience temporary change in land used at each borehole site (In Hectares)
- Area of forest land likely to be experience permanent change of land used due to drilling or boreholes (In Hectares)
- Total meterage of boreholes (In metres)
- 4. Construction of roads or paths involving temporary change in land use (1 hectare=10,000 m²)
 - a. Length (In km)
 - b. Width (In km)
 - c. Area of forest land (In hectares)
- 5. Construction of roads or paths involving permanent change in land use (1

Hectare=10,000 m2)

- a. Length (In km)
- b. Width (In km)
- c. Area of forest land (In hectares)
- 6. Any other activity involving temporary change in land use
 - a. Whether any other activity involving temporary changes in land use in proposed to be undertaken? (Yes/No)

 i. If yes, then,
 - 1. Please specify
 - b. Area involved
- Any other activity involving permanent change in land use
 - a. Whether any other activity involving temporary changes in land use in proposed to be undertaken? (Yes/No)
 i. If yes, then,
 - Please specify
 - b. Area involved

C-4. Area of forest land likely to experience temporary change in land use (In Hectares)

- 1. Surface sampling
- 2. Pitting or trenching
- 3. Drilling of bore holes
- 4. Construction of roads or paths
- Other activity (pl. Specify)
- 6. Total

C-5. Area of forest land likely to experience Permanent change in land use (In Hectares)

- Drilling of bore holes (In hectares)
- Construction of roads/paths
- Other activity (pl. Specify)
- 4. Total
- C-6. Details of machinery or equipment to be deployed for prospecting
 - Name of equipment or machinery
 - 2. Mode of traction
 - Size (L x B x H) (Cubic Meters)
 - 4. Estimated deployment (machine hours)
 - Maximum noise level(decibel)
- D-1. Details of existing paths/roads in the proposed to be utilized for transport of the equipment or machines in the forest land
- Details of existing paths/roads in the proposed to be utilized for transport of the equipment or machines in the forest land (pdf only)
 - D-2. Number and duration of stay in the forest land of the persons proposed to be deployed for prospecting
 - No. of person (Nos.)
 - 2. Duration
 - D-3. Summary of the estimated quantity of ore and other samples proposed to be collected during the prospecting
 - Details of sample
 - Qty. proposed to be collected (In tonnes)
 - D-4. Estimated accuracy and confidence level for mineral reserve assessment
 - Estimated accuracy level for mineral reserve assessment (In %)
 - 2. Estimated confidence level for mineral reserve assessment (In %)
 - D-5. Estimated accuracy and confidence level in case number of bore holes proposed to be drilled is reduced by
 - Accuracy (10, 20, 30, 40, 50%)
 - Confidence level (10, 20, 30, 40, 50%)
 - D-6. In case the proposal is for extension of the period of the permission granted for prospecting, or for drilling of additional boreholes, please provide following additional information
 - Details of approval accorded under the Forest (Conservation) Act, 1980 in the past (Note: Multiple entries allowed)
 - a. Proposal No.

- b. Date of the approval accorded
- c. Area of forest land permitted for prospecting (In hectares)
- d. Validity (From) period of approval
- e. Validity (To) period of approval
- Report on status of compliance to the conditions stipulated in the approval accorded in the past
 - a. Condition stipulated
 - Status of compliance
- Details of violation(s), if any committed
- Justification for extension of permission accorded for prospecting (pdf only)
- Upload a copy of note containing details of prospecting activities undertaken and sample

collected, so far (pdf only)

- E. Details of land identified for Compensatory Afforestation
 - If Compensatory Afforestation is mandatory? (yes/No) (No Compensatory Afforestation is

required in less than 1 ha. Cases) If yes, then,

- Whether non-forest or Revenue forest land is required to be provided by User Agency? (Yes/No)
 - a. If yes, then,
 - i. Select No. of patches
 - ii. No. of districts involved for raising Compensatory Afforestation

Patch wise details

- District
- 2. Enter Village
- 3. Area (In hectare)
- 4. Upload KML file (kml only)
- Enter khasra details
- 6. Present owner
- Upload a scanned copy of the map of the land identified for creation of Compensatory Afforestation prepared by using GPS or Total Station (pdf only)
- Upload a copy of Survey of India Toposheet in 1:50,000 scale indicating location of the land identified for creation of Compensatory Afforestation (pdf only)
- b. If No. then,
 - i. Reason for not providing Non-Forest Land
- 1.2. Whether the area of non-forest land or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation is less

than area of forest land proposed to be diverted? (Yes/No)

- a. If yes, then,
 - i. Provide reasons thereof
 - ii. Area of non-forest or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation

Additional Information (if any) (Note: Multiple entries allowed) entries allowed)

- Upload Additional Information (pdf only)
- 2. Remarks

Figure 72: Form for Declaration of stock of Exotic Live Species

S.No.	Form for Declaration of stock of E Live Species	
1	Name of the Owner/stockholder	
2	Address of the Owner/stockholder	
3	Phone Number	
4	email-id	
5	Name of the Species	
(a)	Common Name	
(b)	Scientific name	
6	Photo of the species	
7	Numbers	
8	Juvenile//Adult	
9	Male/Female	
10	Country/ State of Origin	
11	Address of the facility where Exotic Live Species to be kept/ transferred	
12	Date of Import/ transfer, if applicable	
13	DGFT license Number for import / Reference no. of original stock under transfer, if applicable	
14	Letter number of NOC issued by the CWLW, IF APPLICABLE	
15	Remarks	

Date:	Name & Signature®
Place:	

(* as per Guideline provided on the Parivesh portal)

Annexure II

(To be Issued Online by Chief Wildlife Warden of the State/UT)

S.No	Registration No Registration of stock/ change in stock due to death/transfer/acquisition of Exotic Live Species	
1	Name of the Owner/ Transferrer	
2	Address of the Owner/ Transferrer	
3	Phone Number	
4	email-id	
5	Name of the Species	
(a)	Common Name	
(b)	Scientific name	
6	Photo of the species	
7	Numbers	
8	Juvenile/Sub-adult/Adult	
9	Male/Female	
10	Country/ State of Origin	
11	Name of transferee	
11	Address of the facility where Exotic Live species to be kept	
12	Date of Transfer/death/acquisition	
13	DGFT application/ license Number/ Reference no. of stock in the previous State from where Exotic Live Species transferred (if applicable)	
14	Remarks	

Date:	Chief Wildlife Warden (State/UT
Place:	

Annexure-III

S.No.	Form for Application to CWLW for a NOC for import of Exotic Live Species	
1	Name of the Owner	
2	Address of the Owner	
3	Address of the facility	
4	Phone Number	
5	Name of the Species	
(a)	Common Name	
(b)	Scientific name	
6	Veterinary care facility (adequate/inadequate)	
7	Quarantine & immunization facilities (available/unavailable)	
8	Number	
9	Purpose of import (Personal Pet/Breeding/Trade/ Gift)	
10	Male/Female	
11	Juvenile/ adult	
12	Name and source agency from which exotic live sopecies being importedCountry of Origin	

Date:	Name and Signature*
Place:	

(" As per guideline provided on the Parivesh portal)

465729/2021/NA

463802/2021/IA_I

Annexure IV

S.No.	Form for Application of Registration of Progeny o Previously held Exotic Live Species Stock	
1	Name of the Applicant	
2	Address of the Applicant	
3	Phone Number	
4	E-mail id	
5	Name of the Species	
(a)	Common Name	
(b)	Scientific name	
6	Numbers	
7	Male/Female	
8	Date of birth	
9	Address of the facility	
10	Registration no. of parents	
11	Date of registration	
12	Photo	
13	Remarks	

Date: Name and Signature of the applicant*

Place:

^{*} As per guideline provided on the Parivesh portal.

465729/2021/NA

Detailed Project Report: CPC- Green

Figure 73: Form Seeking Recommendation of Standing Committee of NBWL/SBWL Form for seeking recommendation of Standing Committee of NBWL/SBWL to be filled up by User Agency. PART-I

A. General Details

A-1 Project Details

- 1. Forest Clearance Required? (Yes/No)
 - a. If Yes, then,
 - I. Select Forest Clearance Proposal No. from the drop down list
 - ii. Name of Project (Auto FIII)
 - iii. Short narrative of the Project (Auto Fill)
 - ly. State (Auto Fill)
 - Category of the Project (Barehale Prospecting, Defence, Dispensory/Hospital, Disputed Settlement Claims, Drinking Water, Encroochments, Farest Village Conversion, Hydel, Irrigation, Mining, Railway, Rehabilitation, Road, School, Thermal, Transmission Line, Village Electricity, Wind Power, Industry, Quarrying, Others) (Auto Fill)
 - vi. Shape of project land (Linear, Non-linear and Hybrid) (Auto FII)
 - Distance of the project from the boundary of the Protected Area (in Km) (Auto Fill)
 - viii. Cost of the Project for the part falling within Protected Area (In Locs) (Auto Fill)
 - ix. Total period for which forest land is required (Not Mandatory)
 - x. Total Project Area (In Hectores)
 - Category of Protected Area (Wildlife Sanctuaries, Conservation Reserves, National Park, Wildlife + National Park, Ecologically Sensitive Zone) (Select multiple)
 - xii. Total Area of Forest Land required for this Project (In Hectores) (Auto FIII)
 - xiii. Non-Forest Land required for this Project (In Hectares) (Auto Fill)
 - xiv. Forest Land within Protested Area (In Hectores)
 - xv. Non-forest Land within Protected Area (In Nectores)

b. If No, then, provide these information

- I. Name of Project
- ii. Short narrative of the Project.
- iii. State
- iv. Category of the Project (Barwhole Prospecting, Defence, Dispensory/Hospital, Disputed Settlement Claims, Drinking Water, Encroochments, Forest Village Conversion, Hydel, Irrigation, Mining, Railway, Rehabilitation, Road, School, Thermal, Transmission Line, Village Electricity, Wind Power, Industry, Quarrying, Others)
- v. Shape of project land (Unear, Non-linear and Hybrid)
- vi. Distance of the project from the boundary of the Protected Area (In Km)
- vii. Cost of the Project for the part falling within Protected Area (In Lacs).
- viii. Total period for which forest land is required (Not Mandotory)
- ix. Total Project Area (In Hectores)
- Category of Protected Area (Wildlife Sanctuaries, Conservation Reserves, National Park, Wildlife + National Park, Ecologically Sensitive Zone)
- xi. Area under Protected Area (In Hectores)

Figure 74: Form 5 - Application for Import or Export of Hazardous and Other wastes

PORM 5 (See rule) 12 (1) and 14 (1)]

APPLICATION FOR IMPORT OR EXPORT OF HAZARDOUS AND OTHER WASTE FOR REUSE OR RECYCLING OR RECOVERY OR CO-PROCESSING OR UTILISATION.

TO BE FILLED IN BY APPLICANT

Si.	Description	Details to be furnished by the importer
(0)	(90) Importure or Capacitar Countries and addresses in the testing Constant persons Constant persons Test, tax, and a most in many incoming the control of t	191
	traporter or waggeter manus and admissal outside of India	
3.	Details of exists to be exported as superind (a) Desaithy (b) Blanck Ma. (c) Burghermanistrapid consensuri (d) Burghermanistrapidation of words compare (d) consensuring contents (d) consensuring contents (d) Physical characteristics (f) Bareaula formitting requirements (f) applicable	
16.	Prior Schwende III A Nazarskop weeks abertuit Prior Informal Consent from boom officered	
	For Impactor (a) Processe details along with environmental surfuguete Features (attach separate sheet) (b) Colpicity of recording or co-processing or recovery or officeasing	
	Breakens a regry costs of valid sufficienties and valid consent to operate from SHCB Details of import algorith the Schooly of Environment, Forsial and Climate Change partnesses in the president three years. But of entry	

- - - (iii) The record of commercials and force of the majories wants shall be recorded and proof sent to the SPCE sent quarter (iv) The SPCE sent to the state of the sent quarter (iv) The special proof of the sent sent to the s

Signature of the Applicant Designation

Date

465729/2021/NA

Detailed Project Report: CPC-Green

Figure 75: Forms for Seeking Recommendations of NBWL/SBWL by user

Form for seeking recommendation of Standing Committee of NBWL/SBWL to be filled up by User Agency. PART-I

A. General Details

A-1 Project Details

- L. Forest Charance Required? (Vin/No)
 - If Yes, then,
 - i. Select Forest Clearance Proposal No. from the drop down list
 - E. Name of Project (Auto Fill).
 - iii. Short narrative of the Project (Auto Fill)
 - iv. State (Auto FW)
 - v. Category of the Project (Borehole Prospecting, Defence, Dispensory) knapital, Disputed Settlement Claims, Divising Water, Encroochments, Forest Wilage Conversion, Hydel, Irrigation, Mining, Bailway, Rehabilitation, Road, School, Thermal, Transmission Line, Village Electricity, Wind Pieser, Industry, Quarrying, Others) (Auto Fill)
 - Shape of project land (Linear, Non-linear and Hybrid) (Auto-Fill)
 - vii. Distance of the project from the boundary of the Protected Area (In Ker) (Auto. FUND
 - viii. Cost of the Project for the part fulling within Protected Area (In Loca) (Auto AR)
 - is. Total period for which forest land is required (Not Mandatory)
 - Total Project Area (In Hectoris)
 - al. Category of Protected Area (Wildlife Southwales, Conservation Reserves, National Park, Wildlife + National Park, Ecologically Sensitive Cone) (Select annultiple)
 - Total Area of Farest Land required for this Project (In Hectores) (Auto FIII)
 Non-Forest Land required for this Project (In Hectores) (Auto FIII)

 - siv. Forest Land within Protected Area (in Hectores).
 - se. Non-forest Land within Protected Area (In Nectures)
 - is. If No, then, provide these information
 - Name of frequent
 - ii. Short narrative of the Project.
 - III. Store
 - iv. Category of the Project (Northole Prospecting, Defence, Dispensory/Nospitol, Disputed Settlement Claims, Drinking Woter, Encroochments, Forest Village Cornersion, Hydel, Irrigation, Mining, Rollway, Rehabilitation, Road, School, Thermal, Transmission Line, Wilaye Electricity, Wind Pleeer, Industry, Quarrying, (Mhers)
 - v. Shape of project land (Linear, Non-linear and Hybrid)
 - vi. Distance of the project from the boundary of the Protected Area (In Kin)
 - Cost of the Project for the part falling within Protected Area (in Eucs)
 - viii. Total period for which forest land is required (Not Mandatory)
 - is: Total Project Area (In Nectores)
 - Category of Protected Area (Wildlife Sorictionics, Comervation Reserves, National Park, Wildlife + National Back, Ecologically Sensitive Jose)
 - m. Area under Protected Area (In Hectures)

sit. Acea under Non-Protected Area (In Hectores)

A-2 Details of User Agency

- 1. Name (Auto Fill)
- 2. Address1 (Auto Fill)
- 3. Address2 (Auto Fitt)
- 4. State (Auto /ill)
- 5. District (Auto Fill)
- 6. Pin (Auto Fill)
- 7. Landmarks (Agra Fill)
- E. Email Address (Auto Fill)
- 9. Landline Telephone No. (Auto Fill)
- 10. Fax No. (Auto Fill)
- 11. Mobile No. (Auto Fill)
- 12. Website (if any) (Auto Fill)
- Legal status of User Agency (Central Gost., State Gost., Central PSU, State PSU, Joint Ventore (Pst. + Gost.), Private, others)

A-3 Details of Person Making Application

- 1. First Name (Auto FIII)
- 2. Middle Name (Auto Fill)
- 3. Last Namo (Auto Fill)
- 4. Gender (Auto Fill)
- 5. Designation (Auto Fill)
- 6. Address 1 (Auto Fill)
- 7. Address 2 (Auto Fill)
- 8. State (Auto Fill)
- 9. District (Auto Fill)
- 10. Pin (Auto Fill) 11. Landmarks (Auto Fill)
- 12. Email Address. (Auto Fill)
- 13. Landline Telephone No (Auto Fill)
- 14. Fee No (Auto Fill)
- 15. Mobile No ¿Auto Fill)
- Upload a copy of documents in support of the competence/authority of the pecson making this application to make application on behalf of the User Agency (pdf only)

II. Details of Land required for the Project

B-1 Details of Protected Area

1. No. of Divisions involved in Protected Area (Nos.)

Division wise details of land

- 1. Division Name
- 2. Name of Protected Area
- 3. Area under protested Area (In Nectures)

B-1.1 Details of Districts involved

465729/2021/NA

Detailed Project Report: CPC-Green

1. No. of Districts involved in Protected Area (Nos.)

District wise breakup

- 1. District Name
- Area under Fratested Area (Ne Hectores)
- 3. Area under Non-protected Area (In Historie)

B-1.3 Component wise breakup (Note: Multiple entries of Component allowed) If, shape of forest land proposed to be diverted is Linux, then

Component wise linear breakup (Note: Illim square=100ha.)

- I. Component
- 2. Forest Land
 - ic. Longth (In Kin)
 - b. Worth (hr Aim)
 - t. Anna (In Hectorica)
- 3. Non-Forest Land
 - a. Length (In Kin)
 - b. Workin/An-Xino)
 - c. Area (In Hectores)

If, shape of forest land proposed to be diverted is Non-Linear, then, Component wise Non-Unear breakup

- b. Forest Land (In Hectores)
- c. Non-forest Land (in riectore)

If, shape of forest land proposed to be diverted is Hybrid, then, provide the details of Component wise Non-Linear and Linear breakup as above.

- C. Maps of protected area (Note: Multiple entries of division wise patches are allowed.)
 - L. Division name
 - 2. Area sauder Protected Area (In Hectures)

If, shape of project land proposed to be diverted is Non-Linear, then, Enter Patch wise

- 1. Select No. of Patches
 - a. Area of Patols (No Hectores)
 - b. Opload KML File (keel former only)
- 2. Upliced a copy of Survey of India Topocheet in 1:50,000 scale indicating boundary of protected area (pdf only)
- Upload a scanned copy of the Geo-referenced map of the protected area prepared by using DGPS or Total Station (pdf only).

If, shape of project land proposed to be diverted is Linuar, then, Enter Segment wise details

465729/2021/NA

Detailed Project Report: CPC- Green

- E. Select No. of Segment
 - a. Area of Segment (In Hermans) In. Upload KMI, File (Inn) former only)
- Upload a copy of Servey of finite Toposteer in 1:50,000 scale indicating boundary of principal area (per corp).
 Upload a scarred copy of the Geo-referenced may of the protected area prepared by satry.
- DEFS or Total Station (adj only)
- D. Justification for locating the Project in protected area and details of alternates examined
 - E. Opliced a copy of sorte condutoring possification for locating the Propert in profe randy)
 - 2. Whether a copy of map indicating location of attenuative examined to required to be provided? (Yes/No)
 - If yes, these, 'Updaged a capp of map indicating facotion of afterwative examined'.
 (pulf-cirly)
 - is if the their. Enter remain for not providing such map."
- E. Employment likely to be generated
 - Whenher project is likely to generate employment? (You/No) o. If you, there, provide these information
 - - Foreignant/Riggital Employeeses (Mandon of personn)
 Tomper are Employeeses (Noveler of person steps)
- F. Displacement of People due to the project, if any
 - E. Whether project involves displace
 - a. If yes, then,
 - 5. Total Murder of Further

 - II. Hurrican of Scheduled Casto Families III. Hurrican of Scheduled Tribes (profiles

 - in. Murrier of other families: s. Upload a copy of Helsohilistion and Resyttlement Plangoff only!
 - Uplacet a copy of approved of Minutey of Tribal Affairs, Government of India
 to Solutions and Report Group plan (Note of Norther of Schoolsted
 Tribae femalise are greater than 0.)
- G. Status of Environmental clearance
 - Whether the Project requires Clearance under the Environment (Protection) Act 17667 (Ves/No)
 - - # yes, there,
 i. Status of the LivyTorrecetal Characte to the Project (EC Chapter), under process, application per to be substitted etc.)
- H. Whether proposal is for investigation/survey.

 1. Whether proposal is for investigation/survey? (Nex/Ho)

 2. If so, then.
 - H-1. Specify the time required and extent of Physical disturbance needed within the Protected Area like tree cutting, earth work etc.
 - i. Extent of physical disturbance needed within the PA like (tree-cutting, earthover have.
 - ii. Time required
 - H-2. Details of the Biodiversity impact Assessment report in case the proposal involves use of more than 50 ha, of NP/WLS
 - Copy of the Bipdiversity impact Assessment report (adf cets).
 - H-3. Information on the projects undertaken by the proponent agency in the past in Protected Areas
 - 1. Uploset tile (pilf only).
 - H-4. Details regarding compliance of the conditions on each proposal
 - 1. Uplead für (pdf only)
 - H-5. Details of any matter related to the project is sub judice in any court of law
 - I. Whether any matter related to the project is sub judice in any court of law? (Ym/Ne)
 - a. If yes, then,
 - 4. Normal of the count
 - is. Sub-court
 - III. Cate no.
 - iv. Orders/Directions of the count, if any and its relevance with the ргорожей реојеск

Additional information (if any) (Note: Multiple entries allowed)

- 1. Upload Additional Information (pdf axity)
- 3. Bemarks

9.4.1 Notification - File No 65013/2/2020/P-I dated 16th June 2020

F. No. A-65013/2/2020-P.I Government of India Ministry of Environment, Forest and Climate Change

> Indira ParyavaranBhawan, Jorbagh Road, Aliganj, New Delhi-110003

Dated the 16th June, 2020

Notification

To strengthen Environmental Compliance through transparent, technology driven & non-intrusive monitoring system and to provide a 'aingle window' solution for administration of environmental regulations, a Centralized Processing Centre – Env. (CPC-Env) is proposed to be set up in the Ministry of Environment, Forest & Climate Change.

- The objective of Centralized Processing Centre- Env (CPC-Env) shall primarily be to provide an enabling ecosystem for environment regulatory authority(ies) wherein:
 - Repetitive, mechanical and routine work/ validations/ clarifications are undertaken by the CPC (thus saving time and energy of such authorities)
- Regulatory authorities are assisted by CPC by providing actionable information (thus making the process fast, effective and manageable)
- Repository of all information related to EC/ CTE/ CTO compliance and compliance of other identified regulations etc. are created and managed in a professional manner at one place. (thus avoiding hasales in retrieving of data and making the compliance monitoring more effective)
- The function of the CPC-Env shall include the following:
 - To expand the scope of existing system on PARIVESH so as to integrate EC-CTE/CTO/FC applications.
- To develop e-filing of Forms for various EC/ FC/ Compliances in xml or other suitable formats.
- To map projects and capture compliance reports in monitoring formats, to use data analytics to reflect trends and patterns as regards compliance for effective monitoring;
- To provide back-end support for processing and validations of the applications and compliance reports.
- To keep track of the action taken on respective projects and compliances by PP
 on the conditions imposed
- To provided effective two-way communication between regulatory authority and stakeholders
- To provide an effective system for document management for its effective use by the regulatory authority for decision making and monitoring.
- 4. To define the Scope of Work for the Consultant and the Managed Service Provider for CPC-Env., to draw up associated institutional and financial framework for the CPC-Env. and to undertake the process of selection of consultant at the Project Management Unit and the Managed Service Provider.

-2.

a Committee is constituted, as follows:

- a. Shri Sujit Kumar Bajpayee, Joint Secretary Chairman b. Shri Sharath Kumar Pallerla Scientist 'E' - Member c. Shri E. Thirunavukkarrasu, Scientist 'E', RO,Bengaluru -Member
- d. Shri Anil Kumar, Director, NIC Member e. Dr. S.K. Paliwal, Scientist 'D', CPCB - Member f. Representative from NEERI - Member
- g. Dr. R.B. Lal, Scientist E' Member Secretary
- 4.1 The Committee can co-opt officers/experts for advice Officers from respective divisions in MoEFCC that require integration under the CPC-Env. can be suitably coopted/associated.
- 5. The broad Terms & conditions of the committee shall be as under:
 - To draft a 'Request For Proposal' for the consultant & PMU so as to provide PMU services during the rolling out and running of the project;
- To draft 'Request For Proposal' (RFP) for the Managed Service Provider
- iii. To process and facilitate necessary financial and administrative approvala-
- Issue respective RFP(s) and follow process for appointment and on boarding of the consultant & PMU for the project and the Managed Service Provider for CPC-Env.;
- v. Gathering manpower and infrastructural requirements for smooth running of CPC-Env after on boarding of the consultants and facilitating necessary financial and administrative approvals for meeting the said requirements
- vi. Any other works required for rolling of CPC-Env.
- This issues with the approval of the Competent Authority.

(S.P.Singh) Under Secretary to the Govt. of India Tele-01124695321 Email-sp.singh71@nic.in

Distribution:

- 1. PS to Hon'ble Minister (EF&CC) / PS to Hon'bleMoS (EF&CC)
- 2. PPS to Secretary / PPS to DGF & Special Secretary
- AS(RSP) / AS&FA / AS(RA) /AS(UD) / ADG(FC) / ADG(WL) / ADG(PT)
- JS(RS) / JS(JT) / JS(GM) / JS(MP) / JS(AKN) / JS (SKB)/Economic Adviser / All Scientist 'G' / All IGFs / CE(CCU) / CCA
- 5. Shri Sujit Kumar Bajpayee, Joint Secretary
- ShriSharath Kumar Pallerla, Scientist F
- 7. Shri E. Thirunavukkarrasu, Scientist 'E', RO, Bengaluru
- 8. Shri Anil Kumar, Director, NIC
- 9. Dr.R.B.Lal, Scientist 'E'
- 10. Dr. S.K. Paliwal, Scientist D. CPCB
- 11. Representative from NEERI

9.4.2 Annexure -I: Minutes of the Meeting dated 17th August 2020

F. No. IA-Z-11013/34/2020-IA-II Government of India Ministry of Environment, Forest and Climate Change Impact Assessment Division

3rd Floor, Vayu Wing, Indira ParyavaranBhawan, Jorbagh Road, Aligani, New Delhi-110 003

Dated: 21th August, 2020

Office Memorandum

Sub. - Minutes of 3rd Meeting on Centralized Processing Centre- Env (CPC-Env) held on August 17, 2020 at 4.0 PM IPB, MoEFCC, New Delhi-regarding.

A meeting on "Setting up a Centralized Processing Centre- Environment (CPC-Env)", was held on August 17, 2020 at 4.00 PM under the chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change at IPB, Jorbag, New Delhi.

- The undersigned is hereby directed to forward the minutes of meeting for your kind perusal and further necessary action on the matter please.
- This issues with the approval of Competent Authority.

(Dr. R. B. Lal) Scientist 'E'/Additional Director Telefax: 011-24695362 Email: rb.lal@nic.in

Encl.: As above.

To.

- 1 Shri Vishnu Chandra, DDG, Ministry of Electronics & Information Technology, New Delhi-110003 [Email-vishnu@nic.in]
- Shri Prashant Kumar Mittal, MD, NICSI, Hall no. 2 & 3, 6th Floor, NBCC Tower 15. BhikajiCama Place, New Delhi-110066 [Email-mdnicsi@nic.in]
- Shri S. K. Pallerla, Scientist F. MoEFCC [Email-sharath.kr@gov.in] 3.
- Shri Anil Kumar, Director, NIC, MoEFCC, New 4. Delhi-110003 [Emailanil.kumar@nic.in]
- Smt. Arpita Gupta, Scientist F, NIC, [Email-arpita@nic.in] 5
- Shri Vivek Gupta, General Manager, NICSI, Hall no. 2 & 3, 6th Floor, NBCC Tower 15, BhikajiCama Place, New Delhi-110066
- Dr. M. Ramesh, Scientist E., MoEFCC, [Email-ramesh motipalli@nic.in]
- Shri E. Thirunavukkarrasu. Scientist 'E', RO, MoEFCC Bengaluru.
- Dr. S.K. Paliwal, Scientist 'D', CPCB [Email-san]eevpallwal.cpcb@ nic.in]
- 10. Shri Ankit Gupta, Sr. Scientist , NEERI [Email-a1 gupta@neeri.res.in]
- 11. Shri Manu Garg, GM, NICSI, [Email-manugarg@nic.in]

Minutes of 3rd Meeting on Centralized Processing Centre- Env (CPC-Env) held on August 17, 2020 at 4 PM IPB, MoEFCC, New Delhi

A meeting was held on August 17, 2020 at 4.00 PM under the chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change on Centralised Processing Centre- Env (CPC-Env). List of the participants are annexed herewith.

- At the outset Shri Ravi Agrawal, Additional Secretary, MoEFCC welcomed all the participants and a brief introduction of all the participants took place. He has reiterated the decision taken in a meeting held on 06.08.2020 which was chaired by the Secretary (EF&CC). The decisions, inter-alia, mentioned that, (i) NIC/NICSI will submit the detailed proposal w.r.t. contour of the project, requirement of project manager, technical staff, domain expert, budget, timelines, framework, implementation schedule, and other necessary requirements etc. to the Ministry within two weeks' time i.e.by 20th August, 2020), (ii) NIC/NICSI may use the Draft Expression of Interest (EoI) and Draft 'Request For Proposal' (RFP) that has already been shared to NIC for establishing Centralized Processing Centre -Env. These documents may be used for defining scope and terms of reference for submission of its proposal to the Ministry. Scope of work should be finalized within a weeks' time (i.e. 13th August, 2020), (iii) The project shall be completed in project mode and NIC or NICSI (to be informed to MoEFCC) will own the responsibility for completeness of task and its outcome. Accordingly, a tripartite agreement/MOU may be finalized with MoEFCC, NIC & NICSI. A single point of contact for execution of the project should be informed to the Ministry (i.e. 13th August, 2020), (iv) Proposal shall also include Service Level Agreement (SLA) for monitoring of the project which would include audit of the performance including the various components, to be provided by Ministry.
 - 3. Dr. Sujit Kumar Bajpayee, Joint Secretary informed that EoI for the project has been prepared to seek expression of interest from interested organisations/entities. However, in the meanwhile NIC alongwith NICSI, has represented that it has the competence to provide the requisite features of CPC-Env

and is keen to develop & setup such facility for the Ministry, accordingly now NIC/NICSI is being implementing the tasks of CPC-ENV.

- It was agreed that Shri Manu Garg GM, NICSI would act as Nodal Point between NIC, NICSI & MoEFCC. Ms Arpita Scientist NIC will be the nodal point from NIC.
- Shri Vishnu Chandra DDG, NIC has made the presenation on the scope of the CPC-ENV and after detailed discussions, the following points/issues were emerged:-

1. Scope of Work

- Aspects of statutory compliance and alignment of the overall solution with the legal frameworks of the different government bodies involved has to be taken into consideration by NIC.
- As-is & to-be analysis is to be finalized with exhaustive and detailed documentation after conducting relevant studies and analysis by NIC.
- Post the establishment of a to-be state, the compatibility of CPC's envisaged systems with existing systems of the state government bodies needs to be studied.
- NIC to ensure integration of state and central government systems via design and development of relevant APIs with comprehensive web services.
- A detailed mapping of the SPCBs/Pollution Control Committee's Online Consent Management & Monitory System process is to be established for the purpose of integration with CPC. A uniform CTE/CTO Air & Water application form for all the SPCBs/PCCs needs to standardized.
- Refinements and recommendations has to be given by Ministry on the draft scope of work document received from NIC.
- Phase I and Phase II of the project has to be initiated simultaneously to expedite the process.

2. Functional Requirements

 The high-level functional requirements as established by NIC needs to be detailed further to be incorporated in the DPR. The entire documentation part is to be done by NIC.

- Focus to be on the strengthening and streamlining compliance monitoring system. The Ministry must be enabled with reporting and dash boarding of compliance status of its proponents with functionality to check compliance status across states and industry cohorts.
- · Process flow for an automated action on non-compliance.
 - Access of relevant dashboards to industries to effectively communicate compliance status.
 - Incorporation of automatic red-flag system via SMS & E-Mails on noncompliance.
 - Automated communication to relevant state and central departments on the status of compliance of the different parties under its purview.
- The ICT technology stack with appropriate deployment architecture for the entire system is to be finalized. Procurements needed can be executed via NICSI with the support of the Ministry.
- IoT integration with monitoring stations & ground level embedded sensors for enhanced & automated compliance monitoring is to be explored.
- Robust integration of CPC with identified existing systems is to be focused on and a migration plan of data from existing PARIVESH systems (from the establishment of PARIVESH in 2014) is to be charted out.
- GIS enablement for an enhanced regulatory approval system to include base maps along with environmental layers and other critical information.
- E-verification system via back-end verification using AADHAR details must be incorporated.
- CPC to be equipped with mobile application and comprehensive web-based services via the development and deployment of relevant APIs.

3. Infrastructure & Resource Requirements

- Overall infrastructure requirements need to be studied and compared vis-å-vis
 the existing infrastructure capabilities of NIC. A roadmap/overall plan is to be
 charted for the procurement of additional resources & infrastructure to
 efficiently operate the newly developed systems.
- NIC/NICSI to share the servers being used in the Test environment. NICSI to provide black-box regarding the environment and existing system strategy like p-servers and x-servers.

 NICSI to provide seating and infrastructure to the development teams on a chargeable basis.

4. Roles & Responsibilities

- There should be water tight demarcation of the roles and responsibilities of NIC and NICSI to be incorporated in the DPR.
- On-boarding of domain experts will be joint responsibility of the NIC and NICSI.
- NICSI& NIC must bear the responsibility of capacity building of personnel who shall operate on CPC.
- NIC & NICSI will comply with the infrastructure requirements and MOEFCC will support only with regard to the needed approvals and funds.
- The core responsibility of technical documents (DPR, BRD, SRS, FRS etc.) will be of both NIC& NICSL Emphasis is laid on the continuity of a single team for end to end delivery for development of a superior product.
- The responsibility to train and handhold the personnel at the newly setup processing center is to be borne by both NIC & NICSI.
- The responsibility of monitoring of the deployment team is to be borne by both NIC & NICSI.

5. Project Governance Teams

- The profile of personnel of the different project governance teams needs to be established.
- The variation in size of the governance teams and the changes in their roles and responsibilities across the life cycle of the project needs to be charted out.
- Testing of developed application falls under the joint ownership of the development and deployment teams.

6. Timelines

- Project Gantt chart to be finalized and submitted by 21/08/2020.
- Knowledge transfer of existing systems and processes is to be given to business analysts by 21/08/2020.

 The Detailed Project Report (DPR) of the CPC – Env project must be finalized and submitted by 30/09/2020.

7. Miscellaneous

- Investment on any further ad-hoc developments on PARIVESH and its currently existing systems. Time and resources must be devoted to make CPC-ENV a comprehensive solution for the identified use cases.
- MoEFCC to continue the financial support for the Operations & Maintenance of existing applications (PARIVESH.) until CPC - Env is developed and deployed/rollout.
- NICSI must ensure deployment of technically sound personnel for the development of CPC – Env.
- NIC shall submit proposal/PI for consulting resources for the purpose of DPR creation in consultation with MoEFCC. MoEFCC to provide necessary approval and funds to NICSI by 31/08/2020.

The meeting ended with vote of thanks to the Chair.

Annexure

Sr. No	Names	Designation	Organisation
1.	Dr. Sujit Kumar Bajpayee	Joint Secretary	MoEFCC, New Delh
2.	Shri Vishnu Chandra	Deputy Director General	NIC
3.	Shri Prashant Mittal	Managing Director	NICSI
4.	Shri S. K. Pallerla	Scientist F	MoEFCC, New Delh
5.	Dr. R B Lal	Scientist- E	MoEFCC, Delhi
6.	Dr. S. K. Paliwal (*VC)	Member, CPC-ENV	CPCB
7.	Shri E. Thirunavukkarrasu (°VC)	Member, CPC-ENV	MoEFCC, Regional Office, Bangalore
8.	Dr. M Ramesh	Member, CPC-ENV	MoEFCC
9.	Shri Ankit Gupta (*VC)	Member, CPC-ENV	NEERI
10.	Shri, R. S. Bora	Under Secretary	MoEFCC
11.	Shri Anil Kumar	Scientist F & Member CPC-ENV	NIC
12	Shri Manu Garg	General Manager	NICSI
13.	Smt. Arpita Gupta	Scientist F	NIC
14	Shri Vikash Khardia	Scientist-B	NIC
15.	Shri Kushal Bansal	Consultant and BA	NICSI
16.	Shri Pratik	Consultant and BA	NICSI
17.	Smt. Mahima	Consultant and Technical Writer	NIC
18.	Shri. Kanaka Teja	Research Assitant	MoEFCC

^{*}VC = Video Conference

9.4.3 Annexure -II: Minutes of the Meeting dated 1st September 2020

F. No. IA-Z-11013/34/2020-IA-II (Pt)

Government of India Ministry of Environment, Forest and Climate Change

Impact Assessment Division

3rd Floor, Vayu Wing, Indira ParyavaranBhawan. Jorbagh Road, Aligani, New Delhi-110 003

Dated: 7th September, 2020

Office Memorandum

Sub.: - Minutes of the Meeting held on 1st September, 2020 at 3.0 PM IPB, MoEFCC, New Delhi on Centralized Processing Centre- Env (CPC-Env) - regarding

The undersigned directed to forward the minutes of meeting held on 1st September, 2020 at 3.0 PM on Centralized Processing Centre-Environment (CPC-Env) under the chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change at IPB, Jorbag, New Delhi for kind perusal and further necessary action.

This issues with the approval of Competent Authority.

A TAKE (RS Bora)

Under Secretary(IA)

Encl.: As above.

- 1. Shri Vishnu Chandra, DDG, NIC, New Delhi.
- 2. Shri Anil Kumar, Scientist F. NIC, MOEFCC, New Delhi.
- 3. Shri Sharath K Pallerla, Scirntsit F, MoEFCC, New Delhi.
- 4. Shri E. Thirunavukkarrasu, Scientist 'E', RO, MoEFCC Bengaluru.
- 5. Dr. S.K. Paliwal, Scientist 'E', CPCB
- Shri Ankit Gupta, Senior Scientist, CSIR-NEERI.
- Dr Ramesh Motipalli, Scientist 'E', MoEFCC, New Delhi.
- 8. Mrs Arpita Gupta, Scientist F, NIC, MOEFCC, New Delhi.
- 9. Shri Manu Garg, General Manager, NICSI, New Delhi.
- 10. Dr. R B Lal, Scienetist E, MoEFCC, New Delhi

Copy to:-

- 1. PPS to AS (RA), MoEFCC
- 2. PPS to JS (SKB), MoEFCC

Minutes of meeting held on 1st September, 2020 at 3.00 P.M. in IPB, MoEF&CC, New Delhi on Centralized Processing Centre-Env (CPC-Env).

A meeting was held on September 1, 2020 at 3.00 PM under the Chairmanship of Sh Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change on Centralised Processing Centre-Env (CPC-Env). List of the participants is annexed.

- 2. At the outset Shri Ravi Agrawal, Additional Secretary, MoEF&CC welcomed all the participants. It was followed by a presentation by Shri Amit Singh, Team Lead of the consultancy. He presented the vision of CPC-Env, design principles and the building blocks in order to achieve it based on their team's understanding. During the course of presentation various inputs, suggestions and corrective measures as follows were given by the members.
- Shri Ravi Agrawal, Additional Secretary, MoEF&CC provided inputs regarding the overall framework of the CPC-Env. He suggested the consultancy team to look into the following:

(I) REGISTRATION OF DATA

- Number of registrations for EC &CTO/CTEs till now.
- ii. Number of ECs issued and their breakup.
 - State level
 - b. Central level
- iii. CTO/CTEs issued, their periodicity and correlation with the registrations.

(II) AUTHENTICATION

I Level - PAN based

II Level

- Aadhaar in case of an individual entity
- SIN from data base of MCA in case of corporate entity (to explore any alternatives too).

(III) DEVELOPING AN APPROACH TO HASSLE FREE REGISTRATION

- The concept of introducing digital signatures of consultant and proponent for authentication.
- To reduce the number of fields that are manually filled by consultant. To streamline a process where a consultant would be uploading a combined document of EIA report which includes Form I and Form II. Then proponent must be authenticating the uploaded form for final submission.
- Generation of an unique number after successful registration for all further requirements.
 The unique number should also reflect in EC/CTO/CTEs.

(IV) MISCELLANEOUS DATA

- Procuring the existing data which is with ministry and NIC. Limitations of the data in terms of format and converting the unstructured data to desirable format.
- Challenges to collect data from external sources which aren't under the aegis of NIC and ways to incorporate them into EC.
- Segregation of data in terms of entity based/ corporate based, usability of the data obtained. Data which is found useful should be converted into digital format.
- Data of monitoring stations.
- To propose a dashboard using data analytics framework in CPC-Env application, with clear bifurcation of analytics outputs mapped to user segments such as internal consumption, public consumption, proponent consumption.



He also emphasized that, solutions/way forward envisaged in DPR should be based on the data assessed. He also advised the consultancy team to get a clear under understanding of their individual roles besides their fungible roles in the team.

4. Dr. Sujit Kumar Bajpayee, Joint Secretary, MOEF&CC focussed on redundancy of the existing Form 1 and need to revamp it to create a smooth registration process. He suggested the consultancy team to analyse the past Form 1 in this regard. The relation between minutes of meeting of EAC with Form 1, any redundant matter may be eliminated after consideration.

5. Action Points

- NIC to provide the database schema of the existing applications at the earliest.
- Consulting team to define the consultant registration process. It was discussed during the meeting that consultants should register themselves in the CPC-Env system and would apply the proposal on behalf of proponent. Post application by the consultant system should direct the application to the proponent for approval. Proponent will be approving the application through the digital signature.
- The consulting team is to study the current data and gauge the feasibility of analytics in its current state. A blue-print is also to be drawn out for the data types and data structure envisaged in the to-be state to enable comprehensive analytics output.
- Consulting team will prepare a list of States those are not using PARIVESH and OCMMS.
- The consulting feam is to study the current composition of the type of accounts registered in PARIVESH and finalize the nature of external integrations needed for account authentication.
- A detailed study of the existing application (PARIVESH) is to be conducted by registering as a user and going through the application process. System should be scrutinized in detail to identify the shortcomings (if any).
- Consulting team to study and refine (if required) the catalogue of TOR and EC conditions.

5. FLOW CHARTS

- The process maps for user registration and authentication.
- The process maps for integration of Form I and Form II with EIA. Submission will be done
 by Consultant whereas final validation by the Proponent.
- The consulting team is to work on developing process maps of the steps involved in the different clearance processes, starting with Environmental Clearance on priority.

The meeting ended with vote of thanks to the chair.

-

Annexure

SI. No	Name	Designation	Organisation
1.	Shri. Ravi Agrawal	Additional Secretary& Chairman	MoEFCC
2	Dr. Sujit Kumar Bajpayee	Joint Secretary	MoEFCC
3.	Dr. RB Lai	Scientist- E and Member Secretary	MoEFCC
4.	Sh. Anil Kumar	Scientist F	NIC
5.	Smt. Arpita Gupta	Scientist F	NIC
6.	Sh. Pratik Jayaswal	Consultant	NICSI (EY)
7.	Sh. Amit Kumar Singh	Director	NICSI (EY)
8	Sh. Devinder Yadav	Consultant	NICSI (EY)
9.	Smt. Hene Chakrabarty	Consultant	NICSI (EY)
10	Smt. Monolova	Consultant	NICSI (EY)
11.	Sh. Anuraag	Consultant	NICSI (EY)
12	Sh. Kanaka	Research Assistant	MoEFCC

9.4.4 Annexure -III: Minutes of the Meeting dated 8th September 2020

F. No. IA-Z-11013/34/2020-IA-II (Pt)

Government of India Ministry of Environment, Forest and Climate Change

Impact Assessment Division

3rd Floor, Vayu Wing, Indira ParyavaranBhawan, Jorbagh Road, Aliganj, New Delhi-110 003

Dated: 15th September, 2020

Office Memorandum

Sub.: - Minutes of the Meeting hold on 8th September, 2020 on Centralized Processing Centre- Env (CPC-Env) - regarding

The undersigned directed to forward the minutes of meeting held on 8th September, 2020 on Centralized Processing Centre-Environment (CPC-Env) under the chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change at IPB, Jorbag, New Delhi for kind perusal and further necessary action.

This issues with the approval of Competent Authority.

Under Secretary(IA)

Encl.: As above.

- Shri Vishnu Chandra, DDG, NIC, New Delhi.
- Shri Anil Kumar, Scientist F, NIC, MOEFCC, New Delhi.
- Shri Sharath K Pallerla, Scirntsit F, MoEFCC, New Delhi.
- Shri E. Thirunavukkarrasu, Scientist 'E', RO, MoEFCC Bengaluru.
- 5. Dr. S.K. Paliwal, Scientist 'E', CPCB.
- 6. Shri Ankit Gupta, Senior Scientist, CSIR-NEERI.
- Dr Ramesh Motipalli, Scientist 'E', MoEFCC, New Delhi.
- 8. Mrs Arpita Gupta, Scientist F, NIC, MOEFCC, New Delhi.
- 9. Shri Manu Garg, General Manager, NICSI, New Delhi.
- 10. Dr. R B Lai, Scientist E, MoEFCC, New Delhi

Copy to:-

- 1. PPS to AS (RA), MoEFCC
- 2. PPS to JS (SKB), MoEFCC

Minutes of Meeting held on 8th September, 2020 at 5:30 PM IPB, MoEF&CC, New Delhi regarding Centralized Processing Centre- Env (CPC-Env).

A meeting was held on 8th September, 2020 at 5:30 PM under the Chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change on Centralized Processing Centre- Env (CPC-Env). List of the participants is annexed.

- At the outset Shri Ravi Agrawal, Additional Secretary. MoEF&CC welcomed the
 participants. It was followed by a brief presentation by Shri Anurag, Consultant regarding the
 analysis of the data available w.r.t Environment Clearance, monitoring process as provided by
 NIC. The findings of the data are as follows:
- i. Terms of References (ToR) applications received: 8683
 - a. Violation cases 32.067%
 - b. Pending at centre 0.003%
- ii. Environment Clearance (EC) applications received- 4212
 - a. ECs granted 57%
 - Essential details sought and still lying with Project Proponent- 0.09%.
 - Pending at ministry 0.01%
 - d. Not more than 873 (cumulative count) consultants across the whole EC process are involved.
- ii. Around 6800 Compliance Reports are filed since 2014.
- Committee was informed that cataloguing of EC conditions has been initiated.
- Shri Ravi Agrawal, Additional Secretary, MoEF&CC gave the following suggestions on the presentation:
 - The data cleansing is required as there appears to be discrepancy in data provided by NIC.
 - ii. The data needs to be segregated on the basis of project type:
 - a. New
 - b. Extension
 - Modernization
 - ii. The data needs to be segregated sector wise.
- iii. On a pilot basis compliance level for the past one year should reflect:
 - a. Corporate violations
 - b. Individual entity violations
 - c. On time compliance
 - d. Delayed compliance
 - e. Violations:
- iv. Cataloguing EC conditions:
 - Standard conditions
 - Specific conditions
 - Making a complete list of EC conditions across the process.

- d. Sector-wise breakup
- Assigning a new alphanumeric code to every condition where first half of the code hints attributes of sector, standard/specific and latter half reflects the number assigned to the condition.
- Ensure the possibility of incorporating future requirements in every code.
- 4. He suggested to explore the possibility of having independent environment auditors for compliance reports for having stringent compliance. Environmental Auditors (EA) would audit a project based on their compliance report filed. They would provide a feedback to PP, Ministry and the concerned SPCB. He further suggested integration of CTO/CTE and EC may be ensured through unique number that is assigned to each EC and its linkage with CTO/CTE. Also any expansion or amendment on the EC or CTE/CTO or new EC for the same project should correspond to the reference number of the original EC. Therefore, suitable referencing format may be thought of.
- 5. He also mentioned that CPC-Env should also explore the possibility of having a legal related vertical which can consist of searchable repository of various environment related judgments of various courts viz. Supreme Court, High Courts and NGT for future references and also as an enabler for considered, consistent and uniform decision making.
- 6. Dr. Sujit Kumar Bajpayee, Joint Secretary, MOEF&CC mentioned about the projects which require EC, but are operational on CTO without obtaining EC. He mentioned that the activities under the ambit of EIA are a subset of the activities needed for CTE and CTO. Ensuring a mandatory EC applicability for projects which attract EIA Notification can be done working closely with SPCBs so that the Ministry automatically gets the information related to projects getting CTE/CTO. He also proposed that CPC-Env team should also engage actively with Shri Vikas, NIC who has been handling PARIVESH and is aware of the issues being faced on daily basis both at Ministry and PP's end.
- Dr. R.B. Lal, Scientist E suggested that an additional cataloguing of key components related to air, soil, green belt area, water, hazardous waste, rain water harvesting etc. may be made so that they can be integrated into monitoring mechanism also.

The meeting ended with a vote of thanks to the Chair.

ANNEXURE

Sr. No	Names	Designation	Organisation
i.	Shri. Rasi Agrawal	Additional Secretary& Chair man	MoEFCC
2	Dr. Sujit Kumar Bajpayoc	Joint Secretary	MoEFCC
3.	Dr. RB Lul	Scientist- E and Member Secretary	MnEFCC
4.	Sent. Arpita Gupta	Scientist F	NIC
8.0	Sh. Amit Kunur Singh	Director	NICSI (EY)
6.	Sh. Anurang	Consultant	NICSI (EY)
7,	Sh. Kanaka	Research Assistant	MoEFCC
я.	Sh Vikash	Scientist	NIC

465729/2021/NA

463802/2021/IA

9.4.5 Annexure -IV: Minutes of the Meeting dated 23rd September 2020

F. No. IA-Z-11013/34/2020-IA-II (Pt)

Government of India Ministry of Environment, Forest and Climate Change Impact Assessment Division

3rd Floor, Vayu Wing. Indira Paryavaran Bhawan. Jorbagh Road, Aligani, New Delhi-110 003

Dated: 23rd September, 2020

Office Memorandum

Sub.: - Minutes of the Meeting held on 15th September, 2020 on Centralized Processing Centre- Env (CPC-Env) - regarding.

The undersigned directed to forward the minutes of meeting held on 15th September. 2020 on Centralized Processing Centre-Environment (CPC-Env) under the Chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change at IPB, Jorbag, New Delhi for kind perusal and further necessary action.

2 This issues with the approval of Competent Authority.

> (RS Bora) Under Secretary(IA)

Encl.: As above.

- Shri Vishnu Chandra, DDG, NIC, New Delhi.
- Shri Anil Kumar, Scientist F, NIC, MOEFCC, New Delhi.
- Shri Sharath K Pallerla, Scientist F. MoEFCC, New Delhi.
- 4. Shri E. Thirunavukkarrasu, Scientist 'E', RO, MoEFCC , Bengaluru.
- 5. Dr. S.K. Paliwal, Scientist 'E', CPCB.
- Shri Ankit Gupta, Senior Scientist, CSIR-NEERI.
- 7. Dr Ramesh Motipalli, Scientist 'E', MoEFCC, New Delhi.
- Mrs Arpita Gupta, Scientist F, NIC, MOEFCC, New Delhi.
- 9. Shri Manu Garg, General Manager, NICSI, New Delhi.
- 10. Dr. R B Lal, Scientist E, MoEFCC, New Delhi

Copy to:-

- PPS to AS (RA), MoEFCC
- 2. PPS to JS (SKB), MoEFCC

Minutes of 5th Meeting on Centralized Processing Centre-Env (CPC-Env) held on September 15th, 2020 at 3:00 PM through Video Conference, MoEF&CC, New Delhi

A meeting was held on 15th September, 2020 at 3:00 PM under the Chairmanship of Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change on Centralized Processing Centre- Env (CPC-Env). List of the participants is annexed.

At the outset Shri Ravi Agrawal, Additional Secretary, MoEF&CC welcomed all the participants. It was followed by the presentation of process maps of ToR & EC by consultancy team. The brief sum up of the process maps is as follows:

I To-Be REGISTRATION:

(i) USERS:

User registration would start with bifurcation of users on the basis of corporate and individual entities. Corporate entity details would be extracted by the PAN number provided by them and individual entity details would be extracted by the AADHAR ID.

(ii) CONSULTANTS REGISTRATION:

A data base of accredited consultants will be created. Consultants would be classified as regular (QCI/NABET accredited) and appointed through court order. Regular consultants will be validating themselves by providing their corresponding accreditation number of QCI/NABET etc. Consultants appointed through court order must register themselves in the data base of the ministry.

II To-Be ToR & EC approval:

When an applicant uploads the GIS coordinates of the project site through kml/topo sheet file, permissibly of the activity selected in that specific area would be known and a robust Decision Support System(DSS) would be developed. DSS would run layers of EC/CRZ/ESZ/ICRZ etc. on GIS platform to give such information. In addition to the above existing fields that are filled manually by the applicant there would be fields automatically filled by the system.

It is also mentioned that the consultancy team has been working on consolidation of forms. They told the committee that they are working on to possibility that the existing tasks such as project summary, Minutes of the meeting which are prepared and uploaded manually would be system generated to a large extent thus expediting every ToR and EC related process.

III EC conditions and EC Compliance:

As suggested by the committee the consultancy team explored the option of integrating registration & EC conditions with EC compliance report. Such an integration requires the cataloguing of the existing sector specific and general conditions and ensure that they can be monitored. Post cataloguing of EC conditions they would be classified in the EC compliance as:

- 1. One-time compliance
- 11. Boolean
- III. Data driven
- Shri Ravi Agrawal, Additional Secretary, MoEF & CC provided the following suggestions:
 - For the To-Be New Entity registration proposed, the percentage of corporate and individuals in the existing database needs to be found.

Reiterated that authentication of data submitted by consultant in an EC application must be done by proponent.

The possibility of establishing a back-end office for ToR which scrutinizes the entire application and forwards it to Member Secretary (EAC) for acceptance. MS should only need to examine those proposals which have been escalated by the backend team for further examination by MS.

Desired that the committee should also examine, if such a back-end office can be

established whether a standard ToR can be issued in a single day.

For a system generated Minutes of Meeting a standard template may be conceived so that the observation and recommendation of EAC only need to be captured during EAC meetings cutting down the delay in preparation of EAC MoM.

Thus incorporating the suggestions given by the committee on back end office the process maps of To-Be ToR application and approval needs to be worked again.

Performance of a consultant should be reviewed by Expert Appraisal Committee (EAC) based on the EIA submitted, EMP proposed etc.

In addition to above he suggested the consultancy team to prepare standard templates, study the best practices in states and carry out a comprehensive documentation on conditions of CTO & CTE.

Dr. Sujit Kumar Bajpayee, Joint Secretary, MOEF&CC mentioned that the movement of Minutes of the Meeting between MS and EAC Chairman should be done away with. He suggested that minutes may be seen and approved by the EAC chairman through a link sent electronically.

The meeting ended with vote of thanks to the Chair.

9.4.6 Annexure -V: Minutes of the Meeting dated 8th October 2020

Minutes of Meeting on Centralized Processing Centre- Env (CPC-Env) held on October 8th, 2020 at 10:30 AM IPB, MoEF&CC, New Delhi

A meeting was held on 8th October, 2020 at 10:30 AM under the Chairmanship of Shri R.P. Gupta, Secretary, Ministry of Environment, Forest and Climate Change on Setting of Centralised Processing Centre- Env (CPC-Env). List of the participants is annexed.

- 2. At the outset Secretary, Ministry of Environment, Forest and Climate Change welcomed the members and informed the broad objective of the proposed Centralized Processing Centre- Env (CPC-Env) for the strengthening of environmental compliance through transparent, technology driven and non-intrusive monitoring system and to provide a 'single window' solution for administration of environmental regulations. We should work on facilitation for the Project Authorities so they should know the requirement of different type of obligatory approvals under various Acts/Rules notified by the Regulatory Authorities for its better implementation.
- Shri Ravi Agrawal, Additional Secretary, Ministry of Environment, Forest and Climate Change informed that NIC/NICSI have prepared a presentation based on the work done by them for preparation of DPR. Suggestion from this meeting may be incorporated in the DPR which they are likely to submit shortly.
- 4. Dr. Sujit Kumar Bajpayee, Joint Secretary, MoEF&CC initiating the proceedings informed that earlier draft Expression of Interest (EoI) was prepared. Meanwhile, NIC made a representation that it has the competency to roll out the CPC-Env and was approved by the Ministry in a meeting held on 6th August 2020. Since then, NIC team along with a team of the consultants engaged by them have been working continuously with the Ministry officials for development of DPR for CPC-Env. The whole process was being continuously reviewed and monitored at AS and JS level. As a result, NIC has submitted a presentation reflecting the broad contours of DPR on 30th September 2020. He requested NIC to make the presentation and also the future Road Map regarding the execution of the DPR along with estimates of financial requirements for the proposal.
- Shri Vishnu Chandra DDG, NIC informed that key processes required to understand the subjectivity of the process have been studied, As-is assessment and Gap analysis has been done. An executable Detailed Project Report (DPR) has

been prepared to remove the existing lacunae. The DPR is legible enough for any 3rd party to pave way for Request for Proposal. NICSI presented draft DPR and the financial proposal. Copy of detailed presentation is enclosed herewith. Two options were placed before the committee apropos the execution of CPC-Env. (a) **Option** 1: NIC to undertake the task of putting in place all features of the proposed activities in the presentation by hiring from the existing empanelled vendors list of NICSI, (b) **Option** 2:Managed Service Provider (MSP) shall be hired independently by the Ministry which owns the responsibility of completing the development of CPC-Env in a committed dead line.

- 6. Secretary, Ministry of Environment, Forest and Climate mentioned about the existing difficulties being faced by Project Proponents about the clearances that are needed. A single form which displays all the conditions to be abided should be generated after filling up geospatial data and other relevant details by the proponent. Apart from Environment Clearance (EC), Project Proponent (PP) should know about any additional clearances required depending on the location and nature of project. Duplicacy of the data asked for EC/FC/CRZ should be avoided.
- 7. Shri Ravi Agrawal, Additional Secretary, MoEFCC discussed briefly the outlay of the To-Be process. PP and consultant would be registered through e/digital signature. Based on the coordinates provided, Decision Supporting System (DSS) will display only relevant and necessary fields to be filled along with a subset of conditions attached and an unique number. PP would then upload the EIA report. Form 2 would get filled up extracting details based on EIA report. Form 2 then becomes basis for generation of EAC minutes. EC would contain monitorable conditions to a large extent which get integrated in the Compliance Report.
- 8. Shri Praveen Garg, Additional Secretary & Financial Advisor, MoEFCC told the committee that going through a limited tender may not be a good idea considering the budgetary proposal. Shri Prashant Mittal, MD NICSI explained that all due processes defined in GFR are followed for such tender processes and NICSI has been doing it for number of projects and for number of ministries. He mentioned that a lot of time around 20-30% and also cost of about 30% can be saved going through option of NICSI.
- 9. Sh. Vishnu Chandra, DDG, NIC said that considering the importance of the project, it will depute a dedicated team for the same. Their longivity in the project would also be ensured. Sh. Ravi Agrawal, Additional Secretary, MoEFCC was of the view that since it was a quantum leap in project outcomes with all

- It was decided to go with the option I of NIC hiring from the existing empanelled vendors list of NICSI considering the flexibility of accommodating changes in execution of the project. NIC to come up with a revised proposal, estimated budget and timelines as existing timelines proposed seemed too long.
- II. There should be a single, dynamic form for Project Proponent to suggest the required clearances i.e. EC, FC, Wildlife, CRZ, HW, etc. The need for a unified dynamic form linked to GIS – DSS systems was discussed. This form should automatically integrate the necessary fields of the different clearances which are applicable to the proposed project.
- III. It was agreed that Form 1, Form 2, TOR and EC conditions are to be segregated based on their quantitative or qualitative nature. The value of quantitative conditions are to be captured in database and to be used for compliance monitoring and analytics.
- Forest, Wildlife and CRZ clearances are also to be brought under the purview of CPC - Env.

The meeting ended with	vote of than	ks to th	he Chair.
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Sr. No	Names	Designation	Organisation
1	Shri. Ravi Agrawal	Additional Secretary	MoEFCC
2	Shri Praveen Garg	Additional Secretary & Financial Advisor	MoEFCC
3	Smt. Geeta Menon	Joint Secretary	MoEFCC
4	Dr. Sujit Kumar Bajpayee	Joint Secretary, CPC	MoEFCC
5	Dr. R. B. Lal	Member Secretary, CPC	MoEFCC
6	Dr. M .Ramesh	Member, CPC	MoEFCC
7	Shri. Sharath Kumar Pallerla	Member, CPC	MoEFCC
8	Shri. S.K .Paliwal	Member, CPC	CPCB
9	Shri. Thirunavukkarasu Elan govan	Member, CPC	MoEFCC, RO Bens aluru
10	Shri. Ankit Gupta	Member CPC	NEERI
11	Shri. Kanaka Teja	Research Assistant	MoEFCC
NIC/NI	icsi		70
12	Shri Vishnu Chandra	DDG	NIC
13	Shri Prashant Kumar Mittal	MD	NICSI
14	Shri. Jagjit Singh	General Manager	NICSI
15	Shri. Anil Kumar	Scientist F	NIC
16	Smt. Arpita Gupta	Scientist F	NIC

^{*}Attendance includes VC

9.4.7 Annexure -VI: Minutes of the Meeting dated 23rd November 2020

Meeting held on 25.11.2020 under the Chairmanship of Shri S K Bajpayee, Joint Secretary, IA Division regarding integration of FC and WL clearance in Centralized Processing Centre-Env (CPC-Green)

A meeting was held under the Chairmanship of Shri S K Bajpayee, Joint Secretary, IA Division regarding integration of FC and WL clearance in Centralized Processing Centre-Env (CPC-Green)

- Initiating the discussions JS (SKB) briefed the new members from FC/ WL on the purpose of the meeting and invited the participants to present their views/status on the issue.
- DDG, NIC Shri Vishnu Chandra informed that NIC is already interacting with the FC and WL Divisions on the integration of the FC/WL clearance in the existing PARIVESH and this may be carried forward for the CPC-Green.
- 4. Shi R K Jagenia, DIGF, WL Division confirmed the statement made by DDG, NIC and stated that as on date no approval regarding the integration of WL clearance in the PARIVESH has been obtained in the Division.
- 5. Shri Sandeep Sharma, AIGF, FC Division informed that the process of integration of FC in PARIVESH has been under examination in the Division for some months and the DPR submitted by NIC has been approved as such. However, he further informed that the Division was not aware of the CPC- Green and is agreeable to the integration and a way forward has to be found for the same.
- 6. JS (SKB) desired to know from NIC about the progress post submission of DPR. Responding to same, DDG, NIC raised the issue of the release of funds to the NIC/NICSI in this regard and requested the Ministry should release the balance 60% of fund against DPR immediately so that further work could be taken up without further delay.
- 7. JS(SKB) informed that fund should not be constraint for NIC to continue the planning and development of the CPC-Green. He also mentioned that the remaining amount from the earlier invoice raised by the NIC/NICSI will be processed and paid in due course and a provision of Rs 3 crores has already been made in the RE 20-21 for the CPC-Green.
- 8. Regarding the issue of integration of the monitoring part in the CPC- Green it was informed by JS(SKB) that a system is being planned to be developed in the Ministry in consultation with NPC, NEERI and GIZ in which NIC is supposed to provide technical expertise. It is also learnt that NIC is also part of the ongoing discussions. In view of the same, he requested NIC to include the same also in the updated DPR.
- After discussions, the following were decided:
- A presentation shall be made by NIC/NICSI on CPC-Green at the earliest for the Members of the CPC-Green Committee including the Member Secretaries of IA Division, representatives of WL, FC and NTCA.
- (ii) The payment to NIC/NICSI will be processed for approval of competent authority immediately on receipt of the expenditure statement/ invoice from NIC.
 (iii) FC/WL/NICA and Monitoring module will also be included in the draft DPR presented by NIC.

- (iv) NIC shall begin engaging with concerned team of FC/WL/NTCA immediately.
- (iv) The cataloguing and data cleaning in the existing PARIVESH will be initiated by NIC/NICSI at the earliest for smooth transition to CPC-Green.
- The meeting ended with vote of thanks to the Chair.

The following Officers participated in the meeting:

- 1. Shri Vishnu Chandra, DDG, NIC
- 2. Shri R K Jagenia, DIGF, WL Division, MoEFCC
- 3. Shri Anil Kumar, Senior Technical Director (NIC), MoEFCC
- 4. Shri Sandeep Sharma, AIGF, FC Division, MoEFCC
- 5. Shri R B Lal, Sc. E, IA Division, MoEFCC

9.4.8 Annexure -VII: Minutes of the Meeting dated 4th December 2020

Minutes of Meeting on Centralized Processing Centre-Environment (CPC-Green)

Location: Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi

Date 4.12.2020, Friday

Time 12:00 PM

Meeting held on 4.12.2020 under the Chairmanship of Secretary, MoEFCC for review of Centralized Processing Centre-Env (CPC-Env)

A meeting was held under Chairmanship of Secretary, MoEFCC to review the status of Centralized Processing Centre-Env (CPC-Env).

- 2. Initiating the discussions JS (SKB) briefed about the developments regarding the CPC-Env and the meeting held under the Chairmanship of DGF & SS on the integration of the WL and FC components in the CPC -Env and the status review meeting under his Chairmanship. Thereafter he invited the NIC members to make a presentation on the present status of the CPC-Env.
- Secretary, McEFCC stated that the CPC-Env needs to be flexible for the 3. possible modifications in future, should integrate EC, FC, WL, CTE/CTO, Authorizations under different waste management rules, other state level clearances in order to remove the redundancy. Further directed that information from the PP shall be obtained only once and data shall be flow to all the respective fields for processing of EC, FC, WL, CTE/CTO, Authorizations under different waste management rules, other state sevel clearances except any other information additionally required (there shall be clarity in this regard) so that inconsistencies may be minimized. Secretary also directed that GIS and DSS shall be integrated with system which shall cater for all the clearance process. During the deliberation, in this regard, he has suggested to make a system flexible to integrate the areas where the GIS maps/ digitization are already complete and extend to other areas for integrating after completion of digitization. It was also suggested to have two data columns for area as per actual ground survey and as per shape files so that gradually the divergence in the areas between KML and cadastral maps could be eliminated. He further stated that a clear timeline for the specific deliverables under CPC. Env be outlined and submitted and a review meeting will be held every month in this regard.
- 4. DGF & SS informed that the land records in all the states are not digitised. On this Secy, MoEFCC stated that there should be provisions in CPC-Env for both types of data and the states should be pushed for digitisation of land records.
- 5. DDG, NIC Shri Vishnu Chandra informed that NIC after interaction with the WI. and FC Divisions is in the process of integration of these elements including those of monitoring in the CPC-Env and final version of the DPR will be submitted by next week. A complete implementation strategy will be worked out in NIC in this regard. He stated that as per the revised DPR a budgetary support of Rs 110.69 crores has been

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estimated. He further stated that the change in Acts and Rules whenever they take place will be taken into consideration in the CPC-Env.

- AS(RA) stated that the DPR may be finalised at the earliest and the reasons for the increase in estimated Budget for the development of CPC-Env may be clearly mentioned. The AI integration should be in consultation with the AI experts and the API systems should be competible with other systems.
- 6.1 AS(RA) also suggested that while the DPR is being finalized and procedural matters may take some time, it may be worthwhile to engage Business Analysts in the meanwhile so as to firm up flow charts based on which software shall be developed. This activity is critical to ensure that the project meets committed timelines and the multiple iterations are minimized. The Functional Requirement Study may therefore be undertaken immediately by putting in place a team. The cost shall be adjusted against the overall project work.
- 6.2 It was also suggested that the payments to consultant and other entities should be on milestone basis rather than on time devoted basis
- DDG (NIC) also flagged the issue of balance payment for DPR which has already been submitted as per original scope of work. JS (SKB) informed that file has already been sent for concurrence of IFD.
- After discussions, the following were decided:
 - NIC/NICSI to provide the revised DPR by next week with the integration of FCML elements.
 - (ii) CP and HSM matters will be a part of the CPC-Env.
 - (iii) NIC shall begin engaging with concerned team of FC/ WL/ NTCA immediately.
 - (iv) The deliverables/milestones of the CPC-Env will be provided by NIC/NICSI along with the financial requirements.
 - (v) Simultaneously, E&Y/NiC should engage with Al expert so as to understand the possibilities/functionalities that the Al tools can provide
 - (vi) NIC shall work towards engaging analysts so as to start work of documenting Functional Requirement Study
- The meeting ended with vote of thanks to the Chair.

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List of participants

- 1. Shri R.P. Gupta, Secretary, MoEFCC
- 2. Shri Sanjay Kumar, DGF&SS, MoEFCC
- 3. Shri Ravi Agarwal, Additional Secretary, MoEFCC
- 4. Shri S.K. Bajpayee, Joint Secretary, MoEFCC
- 5. Shri Anjan Mohanti, IG (Forestry), MoEFCC
- ii. Shri Prashant Kumar Mittal, MD, NICSI
- 7. Shri Vishnu Chandra, DDG, NIC
- a. Shri S K Pallerla, Director, MoEFCC
- 9. Shri Anil Kumar, Senior Technical Director (NIC), MoEFCC
- 10. Ms Arpita, NIC, MoEFCC
- 11. Shri Amit Kumar Singh, Consultant, NIC
- 12. Smt Sharmistha Dasgupta, NIC
- 13. Shri R B Lal, Sc. E, IA Division, MoEFCC

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