

Q: What is the difference between an Environment Impact Assessment (EIA) and an Initial Environmental Examination (IEE)? List and explain the entire EIA Process. Where in the Project cycle should an EIA be initiated?

Introduction

After industrial revolutions, there is lot of consequences to environment like emission of dangerous gases which harm living beings. These harmful gases leads biodiversity loss. However, to control harmful emissions from industries, environment impact assessment (EIA) has been introduced for ~~assessing~~ ^{identifying} impacts of project on environment. EIA has important significance in modern days for assessment of environment before project initializing. ^{Moreover,} There are some process of EIA for checking the site of project, where project will be initialized for addressing environmental problems.

What is EIA?

Environmental impact assessment is a formal process to identify, evaluate, predict and to avoid environmental affects caused by any project. Moreover, it is more important for protection of environment from emission of harmful gases from industries. And heavy machineries are used in project. Last but not least, checking of site where project is being initialized either there were existance of living being or not if there were existance then EIA team give precaution measure to owner for effective ~~the~~ construction of their project.

What is IEE?

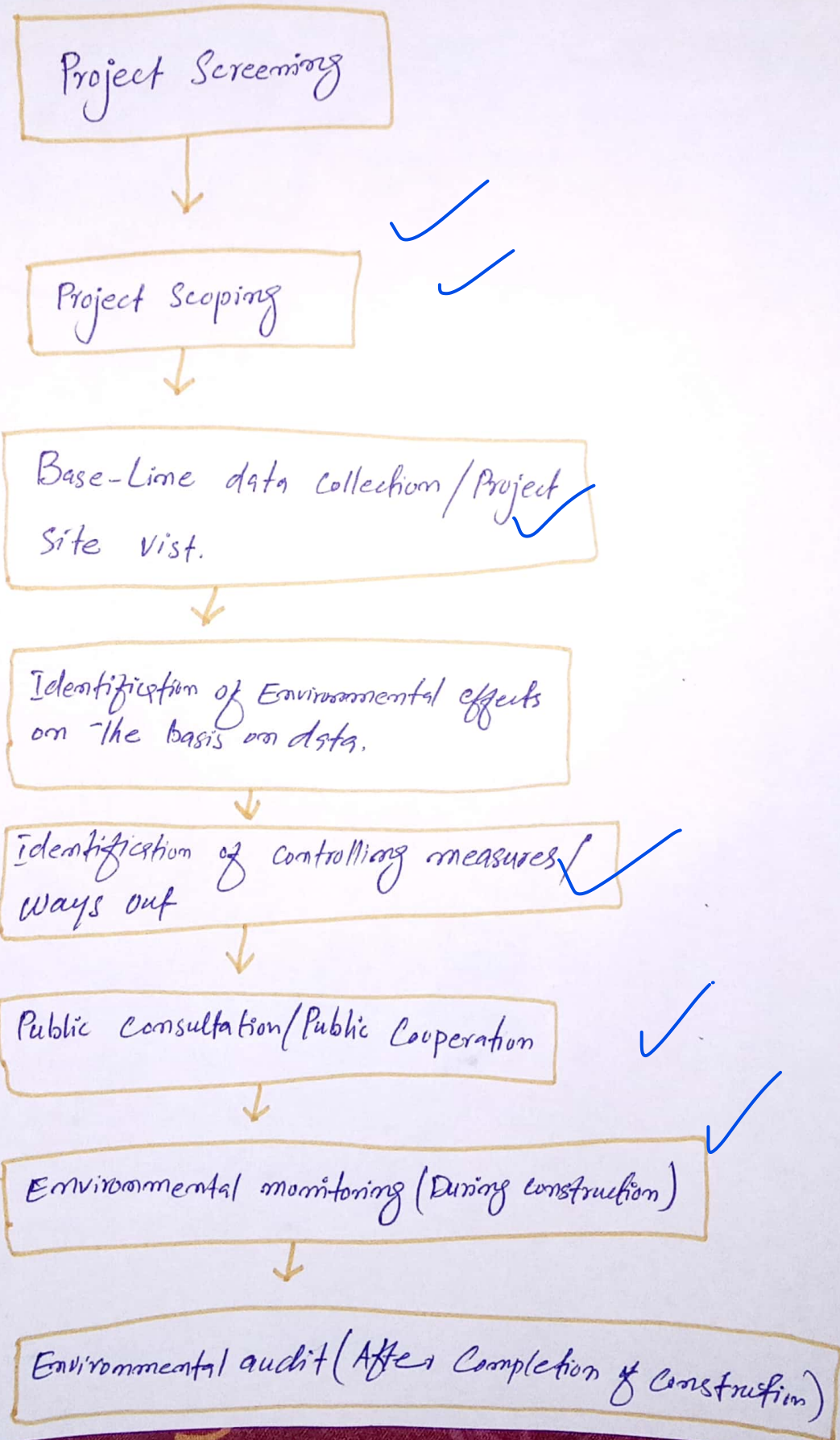
Initial ~~environmental~~ examination is also process for keeping environment safe and secure from dangerous gasses. IEE will be conducted for ensuring environmental protection from harmful affects. Moreover, at the time of construction, ~~EIA~~ ^{IEE} is necessary for knowing which location or site is more suitable for construction of project. Location of project is more important and -this will be identified through these process like IEE and EIA.

Difference b/w EIA and IEE

EIA and IEE ~~are~~ both are the processes for evaluating, identifying and to avoid harmful effects ~~of~~ of project over nature, like effects on water bodies, plants, animals and humans as well. ~~But~~ Moreover, no doubt these two are processes for assessment of environment but there is slight difference ~~to~~ between these two processes. EIA is more comprehensive than IEE. In this process, assessment team will visit the site. And through comprehensive procedure they will generate report about site for construction and advices either site is suitable for project or not because of environment. ~~On the other~~ On the other hand, IEE is less comprehensive and less detailed assessment that is used for small-scale projects like construction of Park for small community. While EIA is used for large-scale projects like industries etc. In EIA, before initializing of any project ~~first~~ one will have to approve from relevant institution.

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⇒ List of processes of EIA



List Process of EIA

(5)

1- Project Screening

Project screening is started with gathering information about project like which type of project, location of project, ~~the~~ completion period, cost of project etc. This data ~~with~~ is provided by the owner, and team will check that data of project.

2- Project Scoping

In this process team will ~~check~~ assume the futuristic approaches of project. ~~the~~ For example, if there were the project of industry then there were the chances of creation of employment. ~~an~~ Team will assume national impact of project either of profit or loss from project to country. Moreover, project will provide benefit to local population like affecting the lifestyle and it means social and economically benefit to local population.

3- Base-Line data collection/Project site visit ^{check}

Team of EIA will visit project site and ^{check} all the dimension of project like presence of forest or not and generate report. Not only forest, water they also consider water bodies, average temperature, and also ~~consider~~ the households, crop lands, air quality as well as develop consensus over construction will happen in day or night.

4- Identification of Env. effects on the basis of data.

EIA team will observe the effects of project based on the data like team will consider deforestation for project construction. EIA consider water pollution in sense of biodiversity loss, air pollution, noise pollution, solid waste of project, also consider the global warming due to project construction and climate change on local level. If there were local residents, due to project displacement will occur. EIA team mention all these observations in their report.

5- Identification of Controlling Measures or ways out

EIA team will give suggestion to the owner of Project. If due to ^{→ -this Project} Large number of displacement occur. ~~It~~ Project will be cause of air pollution, Noise pollution, Deforestation, ~~solid waste~~ on mass level then EIA suggest some controlling measures to control these effects on environment. Team will give suggestion to the owner either in day or in night consider all report of Project.

6- Public Consultation / Public Cooperation

EIA team ^{→ will} visit the ~~the~~ site and consult the local population to take the suggestion about project. Team will check the perception of locals about project either project is beneficial or project is not beneficial for local residents.

7- Environmental Monitoring

Team will check the site ^{during} construction. Also team ~~is~~ is responsible to check either this construction follow their given controlling measures or not follow their given controlling measures. Team has authority to shut the construction if they do not follow the controlling measures given by EIA.

9- Environmental Audit

EIA team will check the ^{site} after completion of project. Team is responsible to check if either project is ~~comp~~ completed on time or not, also ~~check~~ ensure that ~~the~~ controlling measures of ~~water~~ water pollution, air pollution, Noise pollution etc. are installed or not. EIA ~~suggests~~ plantation ~~around~~

Where Project Cycle should be initiated ↳ EIA

EIA should be initiated in the start of project because ~~consider~~ the environment before construction is ~~mandatory~~. Without EIA we cannot understand the risk factors on environment during construction without EIA. EIA becomes crucial after industrial revolution. Irregular construction of industries and projects lead ~~to~~ towards global warming and other factors like deforestation, climate change, water pollution etc. Moreover, EIA promotes sustainable development and this idea was firstly introduced in 1987. Not only this, it ensures effective use of natural resources and also ensure environmental protection. In nutshell, EIA is important before construction.

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