DESIGN MATRICES

S/NO	AUDIT QUESTIONS AND SUB-QUESTIONS	DATA COLLECTION		
		WHAT	HOW TO OBTAIN	HOW TO COMPILE AND ANALYSE
1.	Is the EIA carried out before the issuance of the mining licence?	Information as to whether EIAs are done before issuance of mining license	Review of EIAs, licenses & EMP	A table showing date of the approved EIA, Date of issuance of license Date of EMPs.
1.1.	Are there any National EIA guidelines; if yes, are these guidelines followed when preparing EIAs of a particular project?	Existence of EIA guidelines Compliance with the EIA guidelines	Interviewing of Minerals & Energy officials, NEMC, VPO mineral Right holders	Comparison between the EIA carried out and the existing national EIA guidelines.
1.2.	Is there any laid down system to ensure that all the institutions (for environment) are well informed of the EIAs and EMP before issuance of license?	Confirmation of the communication system between the sector Ministry and Environmental Institution.	(i) Interviewing of Ministry's Energy & Mineral, VPO NEMC (ii) Physical observation of the EIA Document	Summarise the results of the interviews.

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1.3.	Are the stakeholders involved in the preparation of EIAs and implementation of EMPs? If yes, how?	Institution Information regarding the involvement of stake holders in the preparation of EIAs & EMPS	(iii) Interviewing of all officials Ministry Energy & Minerals NEMC, Water boards VPO & councils (iv) Interviewing all stakeholders regarding their participation.	Summarises the results of the interview
2.	Is the authority for discharging pollutants into the river, and other sensitive areas (environment) sought?	Information regarding authority for discharging pollutants.	Interviewing water boards officials; ministry of Energy & Minerals, NENC. Interview the public around the mining areas Local authorities reviewing the authorization certificates	Summarise the results of the interviews. A table showing date of request to discharge pollutants, date of authorization, date of monitoring test carried out.

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2.1.	Does the authority test the pollutants before being discharged?	Information for testing of pollutants before they are discharged.	Interviewing of water Board officials. Reviewing test results.	Table showing data of monitoring/test carried out the result of the test and comment of the authority.
3.	How is the seepage of harmful cyanide sludge controlled?	Information about the monitoring seepage of harmful cyanide sludge.	Review the EMP implementation Interview of the Mineral right holders •NEMC •VPO •Public •Ministry of Energy Minerals	Summarise Interview notes, comparison between actual implementation and EMP.
4.	**Is land reclamation carried out using appropriate material?**	Information about material used for reclamation	Interviewing mineral right holders NEMC, Ministry of Energy & Minerals VPO. Physical observations	Summaries notes from interviews & physical observations

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4.1.	Are the displaced materials due to mining used for reclamation purpose?	Information about the use of displaced material for reclamation purpose.	Physical observation & photographing interviewing community surrounding the mining	Summarise notes, table showing quantities of displaced material quantities of material from the displaced used to reclaim. Quantity of additional material from elsewhere
4.2.	Are the inspections for ensuring compliance with plans and standards regarding land and water management adhered to?	Information on inspections	Reviewing inspection reports, interviews of officials from NEMC, Ministry of Energy & Minerals, VPO, Physical observations. Review timetable for inspections.	Table showing date of inspection, predetermined data for inspections comparisons of the inspection results against standards.

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5.	Are the inspections carried out suing relevant equipment and qualified personnel?	Information about equipment used appropriateness of personnel responsible for inspections	Physical observations of equipment interview of employee's personnel. Review of hiring contracts.	HOW TO COMPILE 1. Summarise notes 2. Table showing list of equipment required as per specified test and equipment used at the moment for inspection. 3. Table showing number of qualified personnel required and no of existing personnel/ hired personnel