

COMPLIANCE STATUS REPORT (CSR)
FOR OPERATIONAL PHASE
OF INSTALLATION OF INCINERATOR BY
M/S GREEN AURA (PVT) LTD
LOCATED AT
PLOT # 158, PHASE-2, M-3, INDUSTRIAL CITY FIEDMC,
DISTRICT FAISALABAD

Prepared By



Environmental Services Pakistan

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SECTION-I ***EXECUTIVE SUMMARY***



EXECUTIVE SUMMARY

Compliance Status Report (CSR)
Environmental Management Plan (EMP)



Environmental Protection Agency, Punjab accorded environmental approval to M/s Green AURA (Pvt) Ltd through letter # **AD (EIA)/EPA/F-82 (EIA)/2023/401 dated 04/08/2023** for Installation of Incinerator by M/S Green Aura (Pvt) Ltd., at Plot # 158, Phase-2, M-3, Industrial City, FEIDMC, District Faisalabad”. All the conditions laid down in the environmental approval for the construction phase have been complied with. The project's proponent intends to accord environmental approval for the project's operational phase.

The objective of preparation of this environmental monitoring report/ compliance status report is to check and ensure the compliance of the conditions contained in the accorded environmental approval and environment friendly construction of the project. All the constructional activities have been complied in accordance with Punjab Environmental Quality Standards (PEQS).

The report provides relevant information, as to help the decision makers; i.e., EPA Punjab, for the environmental approval for operational phase.

Objectives:

Salient objectives of the Environmental Compliance Report are as under:

- ★ To assess the compliance of Environmental Approval.
- ★ To assess the compliance of the Environmental Management Plan.
- ★ To assess the Compliance of Punjab Environment Quality Standards.
- ★ To assess the Compliance of Safety during the project activities.

Environmental Consultant

Management of M/S Green AURA (Pvt) Ltd has appointed Environmental Services Pakistan (Private) Limited (ESPAK), as environmental consultants to carry out a compliance status study and to obtain operational phase environmental approval of the said project.

Office Location:

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Table 1: Consultant's Team

Compliance Status Report (CSR)
Environmental Management Plan (EMP)



#	Name of Team Members	Designation	Qualification
1	Shagufta Tahir	Environmentalism	M.Phil. Environmental Science
2	Asma Akram	Environmentalism	M.S Environmental Sciences
3	Ali Ramzan	Environmentalism	B.S Environmental Sciences
4	Shahzad Ahmad Khan	Project Manager	MBA Marketing



SECTION-II

BRIEF DESCRIPTION OF THE PROJECT





BRIEF DESCRIPTION OF THE PROJECT

Introduction of the Project

The subject project deals with the Installation of Incinerator under the name of M/S Green AURA (Pvt) Ltd., at Plot # 158, Phase-2, M-3, Industrial City, FIEDMC, District Faisalabad. The Capacity of the said project of both incinerators i.e. (two incinerator) is 2400 kgs/hr. The area of the said subject project is 04 Acre. The management has constructional phase approval under the name of M/s Green AURA Pvt Limited, vide letter No. **AD (EIA)/EPA/F-82 (EIA)/2023/401 dated 04/08/2023**. So, it is requested that an approval for operational phase may please be accorded for the titled project at the earliest, copy of obtained NOC of constructional phase is attached as **Annexure-A** for ready reference.

The management has successfully completed the period of construction phase. All the construction has been done in sustainable/environment friendly way. This report presents the compliance status report of environmental approval for operational phase. The purpose of this study is to submit the compliance status of conditions of environmental approval for construction phase. The report provides relevant information, as to help the decision makers i.e., EPA Punjab, for the environmental approval for operation of the project.

Project proponent

Proponent: M/s Green Aura Pvt Limited

Address: Office # 733 Block 2 Sector D-1 Shah Jilani Road Township, Lahore

Location of the Project:

The project site is located at Plot # 158, Phase-2, M-3, Industrial City, FIEDMC, District Faisalabad.

Site access point:

The main access to the said project is through the National Highway. The main access gate is present at the project site and it is big enough to allow an easy access to heavy transport vehicles and there is also enough space for the loading and unloading of the Waste.

Emergency exits:



Emergency exit point is also available on the site for easy evacuation in emergency situations.

Security:

The present site is secured by means of boundary wall along with the presence of security guards round the clock which improves the security of the project site and also in its vicinity.

BRIEF PROFILE OF THE PROJECT

Name	M/s Green Aura (Pvt) Limited
Location of the project	Plot # 158, Phase-2, M-3, Industrial City, FIEDMC, District Faisalabad
Nature of the Project	The subject project deals with the installation of Incinerator under the name of M/s Green Aura Pvt Limited The capacity of the said project is 2400 kgs/hr. Total area of the project is 04 Acres.
District	Faisalabad
NOC Obtained	For constructional phase
NOC required for	For the grant of Operational Phase Approval
Nature of current document	Compliance status report and Environmental Management plan for the M/s Green Aura Pvt. Limited.
Environmental Consultants	Environmental Services Pakistan (ESPAK) Lahore Office: Office No. 731, Block-2, Sector: D1, Shah Jilani Road, Township, Lahore, 54770 Pakistan Tel: +92 42 35154015-16



SECTION-III

COMPLIANCE OF

ENVIRONMENTAL APPROVAL





COMPLIANCE TO CONDITION MENTIONED IN ENVIRONMENTAL APPROVAL

The compliance status of each condition mentioned in the environmental approval for the construction phase of above said project is described in the following table.

Table 2: Status of Compliance

#	ENVIRONMENTAL CONDITIONS	REMARKS
i.	The proponent shall ensure compliance with the Punjab Environmental Quality Standards (PEQS) notified for particulate matter, gaseous emissions, waste water and noise so as to protect the air, water bodies, soil and health of people;	The proponent ensured full compliance with the Punjab Environmental Quality Standards (PEQS) during the construction phase by controlling dust emissions, ensuring proper waste disposal, and preventing any wastewater discharge outside the site. Regular environmental monitoring of air quality, noise, and wastewater was carried out. Monitoring Reports are attached as Annexure-B
ii.	The Proponent shall ensure compliance with the Punjab Environmental Quality Standard (PEQS) 2016 for the treatment of liquid & disposal of biomedical waste by incineration, Autoclaving, Microwaving & deep Burial.	All biomedical waste generated by the project will be treated through incineration. The waste, including infectious, pathological, and sharps materials, will be completely burned at high temperatures, ensuring the destruction of all pathogens and reducing the waste to inert ash.
iii.	Mitigation measures suggested in the IEE Report and Environmental Management Plan (EMP) shall be strictly adhered to control any negative impacts on soil, ground water, air and biological resources of the project area;	The proponent ensured that all mitigation measures suggested in the EIA Report and the Environmental Management & Monitoring Plan (EMP) were strictly followed during the construction phase to



#	ENVIRONMENTAL CONDITIONS	REMARKS
		minimize impacts on soil, groundwater, air, and biological resources. <u>Air Quality:</u> Dust was effectively controlled through regular sprinkling and the plantation of trees around the site. <u>Noise Quality:</u> Noise impacts were minimized by providing PPEs such as earplugs and earmuffs to workers and restricting noisy activities to daytime hours. <u>Water Quality:</u> Wastewater generated during construction was properly collected and managed through a septic tank to avoid any contamination of soil or groundwater.
iv.	Monitoring shall be carried out during the entire period of the project activities. Monitoring reports shall be submitted to EPA Field office on quarterly basis;	M/s Green Aura (Pvt) Limited carried out regular monitoring during the whole constructional phase by EPA certified laboratory and are regularly submitted. Monitoring Reports are attached as Annexure-B
v.	The proponent shall maintain the auditable record of measures during the implementation of Environmental Management Plan for periodical Verification by EPA, Punjab.	The proponent will maintain comprehensive and auditable records of all measures taken during the implementation of the EMP during the operational phase. These records will be available for periodical verification by the Punjab-EPA.
vi.	The proponent shall provide the copy of EIA Report & copy of this Letter of Contractors for their information & compliance with the conditions/	The proponent shall provide copies of the EIA Report and NOC of construction phase to the contractor for their information and to ensure strict compliance with the conditions



#	ENVIRONMENTAL CONDITIONS	REMARKS
	measures suggested in these documents.	and mitigation measures recommended in these documents.
vii.	The construction material is store in such a way that it shall not destroy or damage the environment of the locality.	Green Aura Pvt. Ltd. ensured that all construction materials were stored and managed properly to prevent any damage, contamination, or degradation to the surrounding environment.
viii.	The proponent shall sprinkle the water on daily basis during construction activities as dust suppressant.	Water was sprinkled on regular basis to control the dust suppressant during complete period of construction.
ix.	The proponent shall redress the grievance/ objection concerns of stakeholders on priority basis (if arises at any stage).	No grievances or objections have been reported or observed to date.
x.	The Proponent shall obtain NOCs/Clearance of all other relevant departments if the same is required under the any law.	Condition is complied with. The proponent has obtained license & other concerned/relevant department NOCs after completion of the said project.
xi.	The compensation shall be provided to the local inhabitants in case of any loss of property, shops, business etc., in accordance with the rates agreed upon as per law. All conflicting issues regarding compensation shall be settled amicably before or during the project activities with the approval of competent authority by involving the all stakeholders.	As the proponent owns the land, there is no loss of property, shops, business etc., therefore, no compensation is required.



#	ENVIRONMENTAL CONDITIONS	REMARKS
xii.	The Proponent, shall plant 1000 trees of 6-7 feet height annually of indigenous species in respective district. The Proponent shall also take measures for protection and upkeep of these trees and shall maintain their proper record for verification by EPA.	The proponent has already planted indigenous tree species such as ★ Kikar (Acacia nilotica) ★ Sheesham (Dalbergia sissoo) during the construction phase and will continue green drives, including additional tree plantation, protection, and maintenance, throughout the operational phase, ensuring proper records for verification by the EPA. Pictorial evidences are attached as Annexure-C.
xiii.	The proponent shall do landscaping & restore the environment after completion of the construction work.	The project proponent has carried out proper landscaping within and around the project site after the completion of major project activities. Green belts and tree plantations have been developed to enhance the aesthetic value of the area, reduce dust, and improve the overall microclimate.
xiv.	The proponent shall discharge waste water after treatment.	All process and hospital waste generated at the facility is collected, stored, and completely treated through incineration, ensuring no liquid effluents are discharged. Only domestic wastewater from washrooms and staff facilities is generated, which is treated separately through a septic tank before safe disposal.
xv.	The proponent shall provide the sufficient space around the project	The proponent ensured sufficient space around the project premises for the safe



#	ENVIRONMENTAL CONDITIONS	REMARKS
	premises for unloading & storage of the waste received for incineration as per the applicable Rules & Regulations.	unloading and storage of waste received for incineration. All arrangements are made in accordance with the applicable rules and regulations to facilitate efficient handling and maintain environmental safety.
xvi.	The Proponent shall take the necessary measures to safeguard the social & economic conditions effecting the Community life.	The proponent has taken necessary measures to safeguard the social and economic conditions of the surrounding community, ensuring that the project does not adversely affect local livelihoods or quality of life. Key initiatives included; ★ Prioritizing employment of local residents in project construction and operations. ★ Organizing tree plantation drives to enhance environmental quality and promote sustainability in the surrounding area.
xvii.	The proponent shall take the measure for the compliance of all the Provisions of Punjab Hospital waste Management Rules 2014; in case of disposal of Hospital waste.	The proponent has ensured compliance with all provisions of the Punjab Hospital Waste Management Rules, 2014 for the safe handling, storage, and disposal of hospital waste. A designated Yellow Room has been constructed and is operated to maintain appropriate temperature and safe interim storage of hospital waste prior to incineration, ensuring all activities are carried out in an environmentally responsible manner.



#	ENVIRONMENTAL CONDITIONS	REMARKS
xviii.	The proponent shall comply with all the relevant provisions of PHWMR 2014 while construction of yellow room for temperature maintenance & storage of hospital waste till incineration.	The proponent complies with all relevant provisions of the Punjab Hospital Waste Management Rules, 2014 (PHWMR 2014) during the construction and operation of the designated Yellow Room. The facility is designed and operated to ensure proper temperature maintenance and safe storage of hospital waste prior to incineration. All activities strictly adhere to PHWMR 2014 guidelines to guarantee the safe handling, interim storage, and timely disposal of hospital waste in an environmentally responsible manner.
xix.	The proponent shall take measures to dispose of bottom & fly ash in a proper scientific way.	The proponent has planned to utilize the bottom and fly ash for brick manufacturing, ensuring proper and scientific disposal of the ash.
xx.	The proponent shall install air pollution control device on the incinerator to ensure the compliance of Punjab Environmental Quality Standards.	The proponent has installed a scrubber as an air pollution control device on the incinerator to remove harmful gases and particulates from emissions. This ensures compliance with the Punjab Environmental Quality Standards (PEQS) and helps maintain air quality in the surrounding environment while operating the incineration facility safely and responsibly.
xxi.	The proponent shall follow the SOPs regarding the dengue larvae eradication & shall ensure the removal of stagnant water on daily basis.	The proponent has diligently adhered to the Standard Operating Procedures (SOPs) for dengue larvae eradication throughout the project duration.

Compliance Status Report (CSR)
Environmental Management Plan (EMP)



#	ENVIRONMENTAL CONDITIONS	REMARKS
		Regular and systematic inspections were conducted to identify and eliminate potential breeding grounds for mosquitoes. Moving into the operational phase, the same commitment to SOPs for dengue larvae eradication will be maintained.



SECTION-IV
COMPLIANCE OF
ENVIRONMENTAL MANAGMENT
PLAN





Environmental Management

An EMP will provide an approach for managing and monitoring environment related issues and describes the institutional framework for the environmental management and resource allocations to be carried out at the above mention facility for mitigation the possible negative impact which may cause degradation of the environment.

An EMP is a site-specific plan developed to ensure that all necessary measures are identified and implemented in order to protect the environment and comply with environmental legislation.

Objective of EMP

Environmental management plan is designed to improve the environmental conditions, health and safety and provide the mitigation measures for further improvements.

The primary objectives of the EMP are to:

- ★ Define applicable legal requirements.
- ★ Facilitate the implementation of the mitigation measures identified by consultant.
- ★ Define the responsibilities of the project Environmental/HSE manager.
- ★ To ensure that best management practices and best available techniques shall be incorporated and implemented to minimize the potential environmental and occupational health and safety impacts during the operational phase.
- ★ To adhere with high standards of safety and care for the protection of the handlers.
- ★ Define a monitoring mechanism and identify monitoring parameters in order to:
 - a. Ensure the complete implementation of all mitigation measures.
 - b. Ensure the effectiveness of the mitigation measures.
 - c. Provide a mechanism for taking timely action in the face of unanticipated environmental situations.
 - d. Identify training requirements at various levels.

Purpose and Objectives of the EMMP

Environmental management plan is designed to improve the environmental conditions, health and safety and provide the mitigation measures for further improvements.



The primary objectives of the EMP are to:

- ★ Facilitate the implementation of the mitigation measures identified by consultant.
- ★ Define the responsibilities of the project proponent.
- ★ Define a monitoring mechanism and identify monitoring parameters in order to:
- ★ Ensure the complete implementation of all mitigation measures.
- ★ Ensure the effectiveness of the mitigation measures.
- ★ Provide a mechanism for taking timely action in the face of unanticipated environmental situations.
- ★ Identify training requirements at various levels.

Management Approach regarding EMP

The overall responsibility for compliance with the environmental management plan rests with the project proponent.

A certain degree of redundancy is inevitable across all management levels, but this is in order to ensure that compliance with the environmental management plan is crosschecked.

Environmental management plan is required for formulation, implementation and monitoring of environmental protection measures during and after commissioning of projects. The plans should indicate the details as to how various measures have been or are proposed to be taken including cost components as may be required. Cost of measures for environmental safeguards should be treated as an integral component of the project cost and environmental aspects should be taken into account at various stages of the projects.

Environment Management Cell

The firm/Unit (Incinerator) by M/S Green AURA Pvt. Limited should categorize a Cell in its structure having trained personnel to take up the thorough responsibility of environmental management required for planning and implementation of the project.

Roles and Responsibility

M/S Green AURA (Pvt) Limited has executed the project comprising of a professional for co-ordination, planning, implementation and overall environmental management of the project related activities. The specific roles and responsibilities of different institutions/agencies for



implementation and monitoring of environmental mitigation measures during operation phase are as follows:

Institutional Responsibilities

Following functionaries will be involved in the implementation of EMP:

- ★ Project Proponent.
- ★ EPA certified lab.
- ★ Environmental Engineer/Officer of Contractor
- ★ EPA Punjab as regulatory authority.
- ★ HSE Manager
- ★ Solid waste management project coordinator
- ★ Authorize substance handler
- ★ Visiting Environmental consultant.
- ★ Punjab EPA as regulatory authority.

Roles and Responsibilities.

Project proponent/management of the M/S Green AURA (Pvt) Limited is responsible for the proper implementation and monitoring of environmental mitigation measures during operation phase of the project.

All the environmental matters are the responsibility of the proponent or assigned manager. Environmental manager/ project proponent will manage SWM including (sludge & biological waste, firefighting, gardening/plantation and other related issues as well as manage hazardous non-hazardous waste, hospital bio infectious waste, bio degradable waste, domestic waste, used oil, edible oil & food waste & WWTP sludge etc. The Environmental manager/ project proponent will be responsible in all respects and will manage all HSE conditions at the PEQS. So, all routine environmental matters will be looked after and addressed by him during the operation of the subject project.

Environmental Technical Assistance and Training Plan

In order to raise the level of professional and managerial staff, there is a need to upgrade their knowledge in the related areas. Visiting environmentalist will provide training to the project proponent responsible for the environmental management.

Environmental manager/ project proponent will also train all workers & staff in basic sanitation and health care issues and in general health and safety matters, and on the specific hazards of



their work. Training will also consist of basic hazard awareness, site specific hazards, safe work practices, and emergency procedures for fire, evacuation & incineration activities.

Environmental manager/ project proponent of M/S Green AURA (Pvt) Limited will arrange training on regular basis regarding health & safety, hygiene, firefighting, use of PPEs and first aid at the unit that will also cover the need for the said project.

Roles and Responsibilities of EPA Punjab

The EPA Punjab performs its role as an environmental regulatory authority in the province. EPA Punjab may check the compliance of project related activities with the requirements of applicable national environmental legislation and recommendation for environmental mitigation measures as suggested in report.



Environmental Management and Monitoring Plan

Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
1.	Air quality management	Air Pollution, Emissions from Generators & vehicles	– Air emission during operation will be generate from generators that will be controlled by proper checking, repairing and maintenance of generators – PPE such as mask, gloves will be provided to workers where these are required. – Gaseous Emissions of Generators are well within the standard and lab reports are attached herewith as a proof. Further regular monitoring and preventive maintenance and regular tuning and servicing of the generator will also control the emissions. – The scheduled maintenance of power generators shall be carried out to achieve exhaust emissions well within PEQS limits. – Vehicles should be properly covered and free from any holes and cracks – Safe driving practices will be used.	Environmental /HSE Manager
2.	Noise	Noise level from mechanical operation and from	• In M/S Green Aura (Pvt) Limited source of noise pollution is noise from site generator in case of working (in emergency situation), from visiting vehicles.	Environmental /HSE Manager



Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
		generators as well as Noise Pollution; can harm hearing sense of workers, drivers.	- During operations, there would be no significant noise generated activity expected. There might be use of machinery during maintenance of plant, but the activity has restricted to day time. The noise generated will not the PEQs limit. - The noise monitoring has been done as per guidelines at different timings. - Plantation has been done within and around the premises and on the land under proponent ownership, adjacent to the project site to avoid noise - The project operational activities don't involve any activity which may create high noise levels. - No activity producing extra ordinary levels of noise will be allowed as a policy matter. - Avoid unnecessary honking.	
3.	Solid Waste	Land & soil contamination, aesthetic	- Solid waste which is produced is handed over to certified contractor. - For domestic solid waste small waste storage bins will be installed at various places. From these bins, the waste will be collected through the	SWM/ Environmental /HSE Manager



Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
		degradation, foul smell/Odour etc.	sanitary workers, who will shift it to a big container from where it will be disposed of in accordance with the procedures. – Proper Safety Procedure will be adopted for safe handling and transport of solid waste. – Segregation of solid waste will be done on site, different type of waste is collected in different drums, from where is move for incineration. – Designated vehicles will be used for transportation of hazardous waste. Open vehicle is strictly prohibited for transportation of waste.	
4.	Worker's health & safety concerns	Poor management and negligence may cause severe impacts on workers' health	• The EMP guidelines will be followed strictly. • Training of workers will be conducted regarding health and safety. • No hazardous substance should be allowed to be handled without placing its MSDS and required PPE with hazardous substance. • First aid measures will be provided to workers. • Safety signs, safety boards, exit arrows etc. will be placed on site. • An Assembling point will be kept to gather in case of emergency situation such as fire hazards. • Fire Fighting Equipment's & system will be installed. • Electric wires will be kept covered & closed.	Environmental /HSE Manager



Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
			- Safe drinking water will be provided to workers and staff (admitted by the proponent) - PPE safety checklist should be maintained.	
5.	Emergency Response	There are always chances of earthquakes and manmade disasters, fire, road accidents chemical spillage, etc.	- An Emergency Response Plan for earthquakes and manmade disasters will be developed by the Management plan. Firefighting plan and evacuation will also be in place. - Communicate safety and health hazards with adequate signage, - Protocol for incident reporting and incident investigation should be developed. Accordingly, waste management plan may be updated and revised to prevent recurrence of incidents.	Administration
6.	Employment	To provide job opportunities and help in improving living standard of people	- During this phase, skilled and unskilled labor will be required. - Employment opportunities for the un- skilled workers will therefore increase which will enhance the positive benefits for the local people who are in direct need of income for sustenance. - Indirect opportunities for employment will arise from the provision of services to the construction teams, such as sale of raw-material such as cement, bricks, sand etc., as well as food	Proponent



Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
7.	Wastewater management	Degradation of surface waters quality & Waste water produce is by washing the vehicle	- A water management strategy will be developed to ensure minimal water use; hence volume of discharge will be minimum. - Wastewater will not be disposed of without treatment. - Strictly limit the discharge of hazardous liquids to sewers. - Vehicle and equipment maintenance, including washing, is allowed only in designated areas underlain with concrete slabs and a system to catch runoff. - Septic tank is installed for wastewater. From where water is move to nearby drain.	Proponent
8.	Land Environment	Soil erosion	Land Environment for the subject project is simple plain land without any rocky and undulant structures within the project area. The project proponent has planted trees in the unit area and along the exterior boundary of the project site.	Environmental Manager/ Project Proponent
9.	Soil Contamination	Soil pollution due to sludge & water contamination.	During visit it has been seen that Soil contamination from the subject project is controlled by adopting mitigation measures such as storage of chemical or other material under paved area, by maintaining leakage record of vehicles, and by regular inspection.	Environmental Manager/ Project Proponent



Sr. No	Impacts from the project Activities	Impacts	Mitigation Measures	Responsibility
10.	Surface and ground water contamination	Surface and ground water contamination could be possible from leachate discharge.	• Proper maintenance of route plan and timings for the removal of waste material from working site will be ensured. • It will be ensured that no leachate should be entered into any water body.	Environmental /HSE Manager
11.	Leaching from Waste	Leaching may be occurred due to transportation of moisturized and Liquid waste.	• No contaminated should be release in to environment. • Leaching and other waste effluents will be handled to avoid contaminating surface and groundwater. • Absorbent Kit must be made available in vehicles and it is strictly instructed to be used immediately in case of any spillage of substances. • The integrity of the entire system will be maintained and monitored.	HSE Manager/ SWM Project Contractor



SECTION-V

ENVIRONMENTAL MONITRING PLAN





Environmental Monitoring Plan

Monitoring plan to be enforced during operation will be implemented by the Project Manager of M/S Green AURA Pvt Limited.

An Environmental Monitoring Plan has been prepared for the subject project which is given below. Environmental monitoring will be conducted during operation on regularly basis.

Laboratory analysis/monitoring will be conducted for ambient air quality, water quality, and noise at the subject project.

Aim of Monitoring

The aim of monitoring is to oversee the environmental performance of the project through its lifecycle enforcing the PEQS. Timely implementation of mitigation measures leads to sustainable environmental management of the project.

Objectives of Monitoring

Salient objectives of the environmental monitoring program are as under:

- To ensure effective surveillance of the environmental parameters at various stages of the project development.
- To enable the management, undertake the required mitigation measures when needed.
- To ensure compliance with the PEQS and legal obligations.
- To Monitor the effective implementation of mitigation measures.
- Warn significant deteriorations in environmental quality for further preventive actions.
- To identify activities where the impact/hazards of the project activities are exceeding the criteria of significance and, therefore, require corrective actions.
- To prepare the monitoring report for the submission to the EPA in accordance with the legislative requirement and directives of the competent authorities.



Environmental Monitoring Plan:

To oversee the environmental performance of the project through its lifecycle enforcing the PEQS and Environmental Monitoring Program is formulated which ensures effective surveillance of the environmental parameters at operational stage of the project and legal obligations. Following Monitoring Plan are being ensure at the Project Site

- The monitoring should be carried out in accordance with PEQS.
- Monitoring program shall be undertaken for compliance of mitigation measures.
- Monitoring for various parameters will be done during all the stages of the subject project.

Performance Indicators

The performance indicators / parameters having significant impact on physical, biological and socio-economic environments will be evaluated. These are given below:

Gaseous Emission and Particulate Matter/ Dust

Monthly monitoring of PEQs in this regard is being performed by EPA-certified laboratories and reporting are being submitted to the EPA, as collectively of the M/S Green AURA (Pvt) Limited on quarterly basis.

Noise

Noise during operations phase will be monitoring both inside and at boundaries of Unit on regular bases. Monthly monitoring of PEQs in this regard is being performed by EPA certified laboratories and reporting are being submitted to the EPA, as collectively of the M/S Green AURA (Pvt) Limited on quarterly basis.

Ambient Air Quality

Ambient Air monitoring will be done on regular basis as per recommended by EPA. That monitoring includes some basic parameter i.e. NO_x, CO, SO₂, PM_{2.5}, PM₁₀ etc. monthly monitoring of PEQs in this regard is being performed by EPA certified laboratories and reporting is being submitted to the EPA, as collectively of the M/S Green AURA (Pvt) Limited on quarterly basis.

Vehicular Emission Level



Environmental Monitoring Cell (EMC)

EMC of the project should undertake monitoring of the Safety, Health and Environmental Aspects. It will ensure implementation of EMPs and apprise the General management of the unit on fortnightly basis.

Monitoring of Quality

The EMC will arrange monitoring of the quality of air, water, noise and waste water on required basis.

Monitoring Stages

Monitoring of environmental parameters need to be carried out during operation stage in addition to post-project period.

Monitoring Plan

Following aspects need to be monitored during operation stage:

- Air quality
- Noise level
- Vehicles

Management Approach:

The overall responsibility for compliance with the environmental management plan rests with the project proponent.

Institutional Responsibilities/Capacity

Following functionaries are involved in the implementation of EMP:

- Project Proponent
- Project Manager
- EPA as authoritative Body



RECOMMENDATIONS

- Establish realistic, attainable, and measurable goals that demonstrate progress toward improving environment.
- Top management should continue to demonstrate its commitment to continuous improvement in safety and health, communicates that commitment to workers, and sets program expectations and responsibilities.
- Managers at all levels should make safety and health a core organizational value, establish safety and health goals and objectives, and provide adequate resources and support for the program.
- Workers and their representatives should be involved in all aspects of the program—including setting goals, identifying and reporting hazards, investigating incidents, and tracking progress.
- All workers, including contractors and temporary workers, may understand their roles and responsibilities under the program and what they need to do to effectively carry them out.
- Workers should be encouraged and have the means to communicate openly with management and to report safety and health concerns without fear of retaliation.
- Any potential barriers or obstacles to worker participation in the program (for example, language, lack of information, or disincentives) should be removed or address.

CONCLUSION

This study reveals that the project is economically viable and socially acceptable and the proponent will implement the project in the environment friendly manner. He will adopt all the necessary measures to control any impact if resulting from the project. Proponent will provide safe working environment, proper training and first aid facility to all workers and staff. The project will generate additional jobs during operation phases.



ANNEXURE-A

Constructional Phase NOC



ANNEXURE-B

Monitoring Reports



ANNEXURE-C

Tree Plantation



