

Executive Summary

Siddiqui Steel Furnace (referred as Siddiqui Steel in this document), has planned to install another Furnace ("the project") in its existing facility located in Sector I-9 Islamabad in order to upgrade its current production capacity. Other components to be installed with the new Furnace include a Pollution Control Plant and a Continuous Casting Machine (CCM). The new Furnace will have a daily billet production capacity of 120 tons per day.

The project site is located on Plot no. 93 and 94 of Sector I-9/2 (the designated Industrial Area). Its satellite imagery can be accessed using following coordinates:

Point	Coordinates	
Entrance	N 33°39.397'	E 73°02.943'
CCM Area	N 37°39.399'	E 73°02.938'
Scrapyard	N 33°39.405'	E 73°02.956'

Project Location map along with surrounding structures is shown in the figure below:



Figure Ex 1: Location Map of the Project

This report presents the findings of Initial Environmental Examination (IEE) study carried out by Siddiqui Steel to comply with the requirements of Pakistan Environmental Protection Act (1997). EMC Pakistan Pvt. Ltd. was engaged by Siddiqui Steel to conduct the IEE study. Key objectives of the IEE study were:

- To develop a baseline of the existing environmental and socioeconomic conditions in the project area;

- To identify the key environmental issues in the project area particularly in the context of the project and assess the potential environmental impacts of all project activities;
- To collate and review the standard guidelines for environmental management regarding the project. Identify the extent to which the guidelines can be applied and propose mitigation and monitoring measures that can be incorporated into the project to remove or reduce negative impacts as far as possible, and to control and monitor any residual impacts (i.e. the impacts that remain after mitigation measures are implemented);
- To develop a comprehensive Environmental Management Plan (EMP) for implementation during project operations.

A detailed assessment of project activities was carried out during the IEE study which involved identification of all major and minor impacts from the project activities including:

- Emissions to air
- Wastewater
- Solid waste
- Resource consumption (water)
- Occupational safety risks and hazards
- Management of hazardous materials

The above aspects have been covered in detail in the IEE study and mitigation measures are suggested accordingly to manage the impacts that arise. EMP has been developed to provide a comprehensive environmental action plan for the project.

The baseline environmental and socioeconomic information was collected from a variety of sources, including reports of previous studies, published literature, and field survey (primary information). The information collected was used to develop baseline conditions of project area with respect to the natural, socioeconomic, and cultural environments likely to be affected by the project.

The project activities were reviewed, and an assessment was made of the impact of these activities on ambient environment. Where appropriate, mitigation measures are recommended to keep the adverse environmental impacts within the acceptable limits. Key findings of the impact assessment conducted for the project are discussed below:

- Installation of new Furnace is required by the proponent to:
 - improve process efficiency by replacing the existing process with a fully mechanized process
 - Enhance product quality by implementing international standard casting practices
 - Up-grade its production capacity.
- The project does not require new land for development and will be undertaken on land area already available with the proponent within the premises of existing facility. The impact on ecology, landform, landscape etc. therefore will not be induced on the ambient environment.
- Project site has no sensitive / protected sites that could receive any impact from the project.



- Limited construction waste will be generated as scope of construction is not significant. The waste mainly includes excavated soil, rejected/ surplus materials, packaging etc. and will be managed via construction contractor.
- Water requirement during process is limited to only cooling water which will be recycled to conserve water.
- Process related waste would mainly result from the Pollution Control Plant (dust) and Slag from the Furnace. This waste will be removed from site and sold to contractor.
- Environmental management of the project during operation phase will be undertaken through implementation of Environmental Management and Monitoring Plan provided in this IEE study. The EMP also provides management plan for Occupational Health and Safety during daily operations.

The above assessment leads to the conclusion that the impacts on ambient environment are of medium magnitude and can be managed using mitigation measures suggested in the EMP. Implementation of EMP will ensure that the environmental impacts are proportionally managed and minimized and the project proponent meets all statutory requirements. The consultant therefore recommends that:

- All mitigation, compensation and enhancement measures proposed in this IEE report are implemented as described in the document;
- The Environmental Management Plan is implemented in letter and spirit.

Based on review of project activities and impact assessment for the project, it is recommended that the IEE of the project may be approved with the condition that recommendations given in the IEE and NOC will be followed by the proponent.

