

PROJECT TITLE

ESTABLISHMENT OF ANWER RASHID INDUSTRIES (PVT.) LIMITED

(TUBES AND TYRES MANUFACTURING UNIT
FOR HAND-DRIVEN TROLLEY AND BIKE TUBES)



PROJECT –
**CONSTRUCTION
PHASE NOC**

EIA



ADDRESS –
CHICHO KI MALIAN ROAD,
SHEIKHUPURA



SUBMITTED TO
EPA PUNJAB

**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD
(TUBES AND TYRES MANUFACTURING UNIT)**

LIST OF ABBREVIATIONS

CO ₂	Carbon Dioxide
°C	Degree Celsius
dB(A)	Decibel (Unit of Noise)
EMMP	Environmental Mitigation and Monitoring Plan
EMP	Environmental Management Plan
EPA	Environmental Protection Agency
EP&CC	Environmental Protection and Climate Change Department
HSE	Health, Safety & Environment
m ³ /h	Cubic meter per hour
NOC	No Objection Certificate
NO _x	Oxides of Nitrogen
PM	Particulate Matter
PPEs	Personal Protective Equipment
PEPA 1997	Punjab Environmental Protection Act 1997
SOPs	Standard Operating Procedures
SO _x	Oxides of Sulfur

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

M/S Anwer Rashid Industries PVT LTD. proposes to establish a new standalone industrial unit for the manufacturing of bike tubes and hand-driven trolley tubes at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhupura, Punjab, Pakistan. The project is promoted by **Mian Shehzad Ahmed** (CNIC: 35201-3680476-9).

The project involves the construction and operation of a rubber processing facility with a monthly production capacity of **100,000 – 120,000 bike tubes** and **90 – 100 hand-driven trolley tubes**. The total project area is **33 Kanal 14 Marla** (approximately **4.1 Acres** or **179,769 square feet**). The site is currently vacant and located in an established industrial setting along the Main Road Chicho Ki Malian, adjacent to existing industries such as Panther Sports Rubber Industries, WAPDA Colony, Khan Bricks, and Olympia Carpets. The site does not lie within any environmentally sensitive areas.

The manufacturing process will include raw material preparation (rubber sheets, calcium powder, crumb rubber, and reclaimed rubber), Banbury mixing, tube extrusion and processing, valve fitting, air filling, waxing, steam vulcanization, tyre building (nylon cord with rubber sheet), inspection, and storage of finished products. The facility layout has been designed as per detailed architectural drawings prepared by Chohan Associates, which include dedicated production halls for tyre and tube departments, reclaim department, mixing section, boiler room, administrative block, waste material shed, parking facilities (39 cars and 78 bikes), green belts, and utility areas.

A dedicated wastewater treatment system comprising **two septic tanks, dosing pump, and mixing tank** has been incorporated in the design to manage the relatively low volume of wastewater expected from the project. All effluent will be treated to comply with the Punjab Environmental Quality Standards (PEQS).

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

This EIA study has been prepared for the **Construction Phase NOC** under Section 12 of



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the Punjab Environmental Protection Act (PEPA), 1997, and focuses primarily on the potential environmental impacts associated with the construction phase, while also providing an overview of operational phase aspects for completeness.

SALIENT FEATURES OF THE PROJECT

Sr. No.	Salient Features	Description
i	Title of Project	Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit)
ii	Location	Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Sheikhupura
iii	Nature of Project	Construction and operation of rubber tube and tyre manufacturing facility
iv	Total Area	33 Kanal 14 Marla ($\approx$ 4.1 Acres / 179,769 sq. ft.)
v	Name of Project Proponent	Mian Shehzad Ahmed (CNIC: 35201-3680476-9)
vi	Type of Study	Environmental Impact Assessment (EIA) – Construction Phase NOC
vii	Production Capacity	100,000–120,000 bike tubes + 90–100 trolley tubes per month

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Sr. No.	Salient Features	Description
viii	Raw Materials	Rubber sheets, Calcium powder, Crumb rubber, Reclaimed rubber
ix	Project Cost	To be specified (expected in tens to hundreds of million PKR)

Key Anticipated Environmental Impacts During Construction Phase (short-term and localized):

- Dust generation from site preparation, excavation, and material handling
- Noise and vibration from construction machinery
- Exhaust emissions from vehicles and equipment
- Generation of construction debris and solid waste
- Occupational health and safety risks to workers
- Minor temporary traffic disturbances

During Operational Phase:

- Low-volume wastewater from cleaning and maintenance activities
- Solid waste including rubber scrap and general waste
- Minor air emissions (dust and process fumes) from mixing and vulcanization
- Noise from production machinery
- Occupational health risks related to dust, noise, and mechanical operations

All identified impacts are considered manageable and not significant, provided the

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

proposed mitigation measures are implemented effectively.

Proposed Mitigation Measures

- Regular water sprinkling and dust suppression during construction
- Proper maintenance of machinery to control noise and emissions
- Safe collection, segregation, and disposal of construction and operational waste
- Installation and operation of the designed wastewater treatment system (septic tanks with dosing and mixing tank) to meet PEQS
- Provision of dust extraction, ventilation systems, and emission controls
- Use of Personal Protective Equipment (PPE), strict housekeeping, and worker training on Health, Safety & Environment (HSE)
- Preference for local labor during construction

Environmental Monitoring Plan The proponent will implement a comprehensive monitoring program covering wastewater quality, ambient air quality, noise levels, solid waste management, and occupational health & safety. Regular records will be maintained and compliance reports will be submitted to the Punjab Environmental Protection Agency as required.

The project is expected to contribute to local employment generation and industrial development in Sheikhpura while maintaining strict compliance with environmental standards. With the implementation of the proposed mitigation measures and monitoring plan, the project is anticipated to have minimal adverse environmental impacts.

**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD
(TUBES AND TYRES MANUFACTURING UNIT)**

TABLE OF CONTENTS

EXECUTIVE SUMMARY

PROJECT DETAILS

SALIENT FEATURES OF THE PROJECT

BRIEF OUTLINE OF THE PROJECT

I. AREA OF PROJECT

II. NATURE OF AREA

III. QUANTITY OF WASTEWATER

IV. QUANTITY OF GASEOUS EMISSIONS

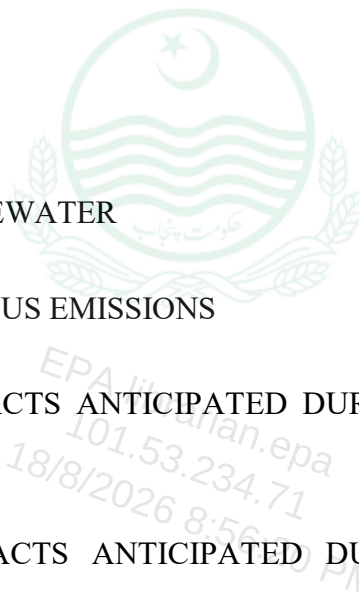
ENVIRONMENTAL IMPACTS ANTICIPATED DURING CONSTRUCTION
PHASE

ENVIRONMENTAL IMPACTS ANTICIPATED DURING OPERATIONAL
PHASE

MITIGATION MEASURES

CONSTRUCTION PHASE

OPERATIONAL PHASE



ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER NO 01 – INTRODUCTION

1.1 BACKGROUND OF THE PROJECT

1.2 PURPOSE AND OBJECTIVES OF THE IEE

1.3 LEGAL REQUIREMENT (SECTION 12 OF PEPA 1997)

1.4 OBJECTIVES OF THE IEE STUDY

1.5 PROPONENT DETAILS

1.6 NATURE, SIZE AND LOCATION OF PROJECT

1.7 NATURE OF PROJECT

1.8 SIZE OF PROJECT

1.9 LOCATION DESCRIPTION

1.10 SCOPE OF THE IEE STUDY

1.11 METHODOLOGY AND DATA COLLECTION

1.12 BASELINE ENVIRONMENTAL CONDITIONS

1.12.1 PHYSICAL ENVIRONMENT

1.12.2 BIOLOGICAL ENVIRONMENT

1.12.3 SOCIO-ECONOMIC ENVIRONMENT

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

1.13 ENVIRONMENTAL IMPACTS

1.13.1 IMPACTS DURING CONSTRUCTION PHASE

1.13.2 IMPACTS DURING OPERATIONAL PHASE

1.14 MITIGATION MEASURES

1.14.2 CONSTRUCTION PHASE

1.14.3 OPERATIONAL PHASE

1.15 ENVIRONMENTAL MANAGEMENT PLAN (EMP)

1.16 ENVIRONMENTAL MONITORING PLAN

1.17 STAKEHOLDER CONSIDERATIONS

1.18 REPORT STRUCTURE

CHAPTER NO 02 – LEGISLATIVE FRAMEWORK

2.1 INTRODUCTION

2.2 PUNJAB ENVIRONMENTAL PROTECTION ACT (PEPA), 1997

2.2.1 LEGAL STATUS

2.2.2 KEY PROVISIONS RELEVANT TO THE PROJECT

2.3 PUNJAB ENVIRONMENTAL QUALITY STANDARDS (PEQS)

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

2.3.1 PEQS FOR AMBIENT AIR QUALITY

2.3.2 PEQS FOR INDUSTRIAL AND MUNICIPAL EFFLUENTS

2.3.3 PEQS FOR DRINKING WATER

2.3.4 PEQS FOR INDUSTRIAL GASEOUS EMISSIONS

2.3.5 PEQS FOR NOISE

2.4 SOLID WASTE MANAGEMENT RULES

2.5 OCCUPATIONAL HEALTH & SAFETY LAWS

2.6 HAZARDOUS SUBSTANCES HANDLING

2.7 LOCAL ZONING AND LAND USE REGULATIONS

2.8 INTERNATIONAL ENVIRONMENTAL CONVENTIONS
RELEVANT TO THE PROJECT

2.9 ENVIRONMENTAL COMPLIANCE STRATEGY FOR THE PROJECT

2.10 SUMMARY OF APPLICABLE LAWS

CHAPTER NO 03 – DESCRIPTION OF PROJECT

3.1 OBJECTIVES OF THE PROJECT

3.2 PARTICULARS OF THE PROJECT SITE

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

3.3 LOCATION AND LAYOUT OF THE PROJECT

3.4 SIZE AND MAGNITUDE OF THE PROJECT

3.5 AREA AND COST OF THE PROJECT

3.6 NATURE OF AREA AND LAND USE ON SITE

3.7 VEGETATIVE FEATURES ON SITE

3.8 RELOCATION AND REHABILITATION PLANS

3.9 STAFF/MANPOWER

3.10 ELECTRICITY AND UTILITIES

3.11 AIR EMISSIONS, WASTEWATER, AND SOLID WASTE

3.12 NOISE

3.13 SCHEDULE OF IMPLEMENTATION

3.14 MATERIALS FOR CONSTRUCTION AND EQUIPMENT

3.15 WORKING OF THE UNIT

3.16 POTENTIAL PICTORIAL VIEWS

CHAPTER NO 04 – DESCRIPTION OF THE ENVIRONMENT

4.1.1 DATA COLLECTION

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

4.2 PHYSICAL ENVIRONMENT

4.3 PHYSICAL RESOURCES

4.4 GEOGRAPHY AND GEOLOGY

4.5 TOPOGRAPHY

4.6 HYDROLOGY

4.7 CLIMATE

4.8 BIOLOGICAL ENVIRONMENT

4.8.1 FLORA

4.8.2 FAUNA IN THE AREA

4.9 SOCIO-ECONOMIC RESOURCES

4.10 DEMOGRAPHY

4.11 LITERACY RATE

4.12 INDUSTRIES

4.13 AMENITIES

CHAPTER NO 05 – STAKEHOLDER CONSULTATION

5.1 OBJECTIVES OF STAKEHOLDER CONSULTATION

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

5.2 METHODOLOGY OF STAKEHOLDER CONSULTATION

5.3 IDENTIFICATION OF STAKEHOLDERS

5.4 Consultation Process

5.5 KEY FINDINGS: CONCERNS AND SUGGESTIONS

5.6 INTEGRATION OF FEEDBACK INTO PROJECT DESIGN

5.7 CONCLUSION AND ONGOING ENGAGEMENT

CHAPTER NO 06 – POTENTIAL ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

6.1 IDENTIFICATION OF POTENTIAL ENVIRONMENTAL IMPACTS

6.2 SCOPING CRITERIA FOR IMPACTS

6.3 METHODOLOGY FOR IMPACT ASSESSMENT

POTENTIAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH
PROJECT LOCATION

POTENTIAL IMPACTS DURING CONSTRUCTION PHASE AND
MITIGATION MEASURES

6.3.1 DUST EMISSIONS AND AIR QUALITY

6.3.2 NOISE AND VIBRATION

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

6.3.3 SOLID WASTE GENERATION

6.3.4 WASTEWATER GENERATION

6.3.5 SOIL CONTAMINATION AND EROSION

6.3.6 ECOLOGICAL IMPACTS

6.3.7 OCCUPATIONAL HEALTH AND SAFETY

6.3.8 SOCIOECONOMIC IMPACTS

POTENTIAL IMPACTS DURING OPERATIONAL PHASE AND
MITIGATION MEASURES

6.3.9 WASTEWATER IMPACTS

6.3.10 SOLID WASTE IMPACTS

6.3.11 AIR EMISSIONS AND ODORS

6.3.12 NOISE POLLUTION

6.3.13 WATER CONSUMPTION

6.3.14 OCCUPATIONAL HEALTH AND SAFETY

6.3.15 SOCIOECONOMIC IMPACTS

6.4 WAYS OF ACHIEVING MITIGATION MEASURES

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

6.5 ENVIRONMENTAL ENHANCEMENT MEASURES

6.6 MONITORING AND COMPLIANCE

CHAPTER NO 07 – ENVIRONMENTAL MANAGEMENT & MONITORING PLAN

7.1 OBJECTIVES OF THE EMMP

7.2 COMPONENTS OF THE EMMP

7.3 INSTITUTIONAL ARRANGEMENTS AND RESPONSIBILITIES

7.4 ENVIRONMENTAL MANAGEMENT PLAN

7.5 ENVIRONMENTAL MONITORING PLAN

7.6 SUPERVISION AND MONITORING

7.7 COMMUNICATION AND DOCUMENTATION

7.8 GRIEVANCE REDRESS MECHANISM (GRM)

7.9 ENVIRONMENTAL TRAINING

CHAPTER NO 08 – CONCLUSION AND RECOMMENDATIONS

8.1 CONCLUSION

8.2 RECOMMENDATIONS

**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)**

CHAPTER NO 01

INTRODUCTION



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 1: INTRODUCTION

1.1 Background of the Project

M/S Anwer Rashid Industries PVT LTD . proposes to establish a modern industrial unit dedicated to the manufacturing of high-quality bike tubes and hand-driven trolley tubes at **Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhupura, Punjab, Pakistan**. The project is promoted by **Mian Shehzad Ahmed** (CNIC: 35201-3680476-9).

This facility will serve the growing demand for rubber tubes used in motorcycles (bikes) and hand-driven trolleys in the local and regional market. The project is designed as a standalone unit and will not undertake any other product lines. The manufacturing activities will focus on rubber compounding, tube extrusion, vulcanization, tyre building, and finishing processes.

The project site is currently vacant land situated in an established industrial corridor along Chicho Ki Malian Road, surrounded by similar industrial units including Panther Sports Rubber Industries, WAPDA Colony, Khan Bricks Bhatah, Al Hilal Town, and Olympia Carpets. The location offers excellent road connectivity and proximity to necessary infrastructure.

This Environmental Impact Assessment (EIA) Report has been prepared to obtain the **Construction Phase No Objection Certificate (NOC)** from the Punjab Environmental Protection Agency (Punjab EPA) under **Section 12 of the Punjab Environmental Protection Act (PEPA), 1997** (as amended). It ensures that the proposed development complies with all applicable environmental laws, rules, regulations, and standards of Punjab Province.

1.2 Purpose and Objectives of the EIA Study

The primary purpose of this EIA study is to systematically evaluate the potential environmental impacts of the proposed project during both construction and

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

operational phases and to propose effective measures to mitigate any adverse effects.

Specific Objectives of the EIA are:

1. To describe the project in detail, including location, layout, production process, raw materials, and infrastructure as per the approved architectural drawings.
2. To establish the existing (baseline) environmental conditions of the project area covering physical, biological, and socio-economic parameters.
3. To identify, predict, and evaluate the potential environmental impacts associated with construction and operation activities.
4. To assess the magnitude, duration, reversibility, and significance of identified impacts on air quality, water resources, soil, noise levels, and human health.
5. To recommend practical, cost-effective, and site-specific mitigation measures to minimize or eliminate negative impacts.
6. To develop a comprehensive Environmental Management Plan (EMP) and Environmental Monitoring Plan for effective implementation during construction and operation.
7. To ensure compliance with Punjab Environmental Quality Standards (PEQS) for effluents, emissions, and noise.
8. To facilitate informed decision-making by the Punjab EPA and promote sustainable industrial development with minimal environmental footprint.
9. To address stakeholder concerns and contribute positively to local employment and economic growth in Sheikhpura district.

1.3 Legal Framework and Regulatory Requirements

The preparation of this EIA is a mandatory legal requirement under the **Punjab Environmental Protection Act, 1997 (PEPA)**.

Section 12 of PEPA, 1997 clearly states: “No proponent of a project shall commence construction or operation unless he has filed with the Provincial Agency an Initial

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Environmental Examination (IEE) or, as the case may be, an Environmental Impact Assessment (EIA), and has obtained from the Provincial Agency approval in respect thereof.”

The proposed project falls under the category requiring a full **EIA** due to its industrial nature involving rubber processing, heavy machinery (Banbury mixer, extruders, vulcanizers, etc.), potential generation of emissions, noise, and waste. This study has been prepared in accordance with:

- Punjab Environmental Protection Agency (Review of IEE & EIA) Regulations, 2000 (and subsequent amendments).
- Punjab Environmental Quality Standards (PEQS) for industrial effluents, gaseous emissions, and noise.
- Guidelines issued by Punjab EPA for industrial projects.
- Relevant international best practices for rubber industry environmental management (where applicable).

The project proponent commits to obtaining all necessary approvals before starting any construction activity.

1.4 Proponent Details

Project Title: Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)

Project Proponent: Mian Shehzad Ahmed **CNIC:** 35201-3680476-9

Company Name: M/S Anwer Rashid Industries PVT LTD . **Project Area:** 33 Kanal 14 Marla (approximately 4.1 Acres or 179,769 square feet) **Location:** Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhupura, Punjab, Pakistan **Project Phase:** Construction Phase **NOC** **Project Cost:** To be finalized (expected in the range of tens to hundreds of million PKR depending on machinery and infrastructure)

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

1.5 Nature, Size and Location of the Project

1.5.1 Nature of the Project The project involves the construction of a dedicated manufacturing facility for rubber tubes and tyres. Key activities include raw material storage, Banbury mixing, tube extrusion/processing, valve fitting, air filling & waxing, steam vulcanization (cooking), inspection, tyre building (nylon cord with rubber sheet), and finished goods storage.

The architectural drawings prepared by Chohan Associates show a well-planned industrial layout with separate departments for tyre production, tube production, reclaim department, mixing section, boiler room, administrative block, and utilities.

1.5.2 Size and Production Capacity

- **Total Plot Area:** 33 Kanal 14 Marla (179,769 sq. ft.)
- **Monthly Production Capacity:** – Bike/Motorcycle Tubes: 100,000 – 120,000 units
– Hand-driven Trolley Tubes: 90 – 100 units
- The facility includes production halls, storage areas, parking for 39 cars and 78 bikes, and green/open spaces as per the approved layout.

1.5.3 Location Description The project site is located in an industrial zone of Sheikhpura district along Chicho Ki Malian Road. The area has good accessibility via main roads and is surrounded by similar industrial establishments. The site is currently vacant with no significant vegetation. It does not fall within any protected environmental zones such as forests, wetlands, wildlife sanctuaries, or archaeological sites. Groundwater will be the primary source of water, and the layout includes proper septic tank-based wastewater treatment system (two septic tanks with dosing pump and mixing tank).

1.6 Scope of the EIA Study

The scope of this EIA includes:

- Detailed review of project design, layout (from attached architectural drawings), and

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

manufacturing process.

- Collection and analysis of baseline environmental data.
- Identification and assessment of potential impacts during construction and operation.
- Development of mitigation measures, Environmental Management Plan (EMP), and Monitoring Plan.
- Compliance with all relevant national and provincial environmental regulations.

1.7 Methodology Adopted

The EIA study has been carried out using a systematic approach including:

- Site reconnaissance and field observations.
- Consultation with the project proponent and review of architectural drawings.
- Collection of primary data (site-specific) and secondary data from published sources.
- Review of PEPA regulations, PEQS, and international guidelines.
- Use of checklists, matrices, and process flow analysis for impact identification.
- Evaluation of impacts based on their magnitude, duration, frequency, and reversibility.

1.8 Baseline Environmental Conditions (Overview)

The project area falls in a typical semi-arid industrial zone of Punjab. Baseline conditions indicate moderate air quality influenced by nearby traffic and industries, acceptable noise levels for industrial settings, alluvial soils, and groundwater as the main water resource. No endangered flora or fauna have been observed on or near the site. The socio-economic environment offers opportunities for local employment generation.

1.9 Anticipated Environmental Impacts

Construction Phase (temporary): Dust, noise, exhaust emissions, construction waste, and occupational safety risks. **Operational Phase:** Low-volume wastewater,

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

rubber scrap, minor air emissions, noise from machinery, and workplace health considerations.

All impacts are considered manageable with proper planning and controls.

1.10 Mitigation Measures (Summary)

- Dust suppression through water sprinkling during construction.
- Operation of the designed wastewater treatment system (septic tanks + dosing + mixing tank).
- Installation of ventilation, dust collectors, and emission controls.
- Proper solid waste segregation, recycling of rubber scrap, and safe disposal.
- Use of PPE, worker training, and strict housekeeping.

1.11 Environmental Management and Monitoring Plan

A detailed EMP and Monitoring Plan will be implemented covering wastewater quality, air quality, noise, solid waste, and occupational health & safety. Regular reporting to Punjab EPA will be ensured.

1.12 Stakeholder Considerations

The project is expected to generate direct and indirect employment opportunities for local residents of Sheikhpura. No land acquisition or displacement issues are involved. The proponent is committed to responsible industrial practices that support economic development while protecting the environment.

1.13 Structure of the Report

The EIA Report is organized as follows:

1. Introduction
2. Project Description
3. Description of the Existing Environment

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

4. Identification and Assessment of Environmental Impacts
5. Mitigation Measures
6. Environmental Management Plan (EMP)
7. Environmental Monitoring Plan
8. Institutional Arrangements and Implementation Schedule
9. Conclusion and Recommendations



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
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CHAPTER NO. 02
**LEGISLATIVE AND REGULATORY
FRAMEWORK**



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER NO. 02 LEGISLATIVE AND REGULATORY FRAMEWORK

2.1 Introduction

Pakistan is a signatory to numerous Multilateral Environmental Agreements (MEAs) and international conventions aimed at environmental protection, sustainable industrial development, climate change mitigation, pollution control, and occupational health and safety. These include the United Nations Framework Convention on Climate Change (UNFCCC), Convention on Biological Diversity (CBD), Basel Convention on the Control of Transboundary Movements of Hazardous Wastes, and others.

At the national level, Pakistan has developed a robust legal and institutional framework to address key environmental challenges such as industrial emissions, water and air pollution, solid waste management, occupational health risks, and resource conservation. Following the 18th Constitutional Amendment in 2010, environmental matters became a provincial subject. In Punjab, the **Punjab Environmental Protection Agency (EPA Punjab)** is the primary regulatory authority responsible for enforcing environmental laws, reviewing IEE/EIA reports, monitoring compliance, and ensuring sustainable industrial growth.

This chapter provides a detailed overview of the legislative, regulatory, policy, and institutional framework applicable to the proposed **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit)** at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Sheikhupura. The project involves rubber processing activities including Banbury mixing, tube extrusion, vulcanization (steam cooking), tyre building, and associated utilities. Although the process generates relatively low volumes of wastewater and emissions, full compliance with all applicable laws is ensured through the installed septic tank-based treatment system, emission controls, and waste management practices.

The framework presented here demonstrates that the project will be developed and operated in strict accordance with provincial and national environmental standards, promoting environmentally sustainable manufacturing of bike tubes and hand-driven trolley tubes.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

2.2 Punjab Environmental Protection Act (PEPA), 1997 (as amended)

2.2.1 Legal Status and Institutional Setup

The **Punjab Environmental Protection Act, 1997** (PEPA, as amended in 2012 and thereafter) is the cornerstone of environmental legislation in Punjab. It provides the legal basis for the protection, conservation, rehabilitation, and improvement of the environment.

The Act established two key institutions:

- **Punjab Environmental Protection Council:** Provides high-level policy guidance and strategic direction for environmental protection in the province.
- **Punjab Environmental Protection Agency (EPA Punjab):** Acts as the executive arm responsible for implementing environmental policies, reviewing and approving environmental assessment reports (IEE/EIA), monitoring environmental quality, enforcing standards, and taking legal action against non-compliance.

2.2.2 Key Provisions Relevant to the Project

Several provisions of PEPA 1997 are directly applicable to the proposed rubber tube and tyre manufacturing project:

- **Section 11 – Prohibition of Certain Discharges or Emissions:** No person shall discharge or emit any effluent, waste, air pollutant, or noise in excess of the Punjab Environmental Quality Standards (PEQS). For this project, this applies to minor dust and fumes from Banbury mixing and vulcanization, noise from machinery, and low-volume wastewater from cleaning and domestic use.
- **Section 12 – Requirement of Initial Environmental Examination (IEE) and Environmental Impact Assessment (EIA):** No proponent shall commence construction or operation of a project without filing the required environmental assessment and obtaining prior approval from EPA Punjab. The proposed project requires a detailed **EIA** due to its industrial scale involving mechanical processing, heavy machinery, and potential (though limited) impacts on air, noise, and waste. This EIA report is submitted specifically for the **Construction Phase NOC**.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- **Environmental Protection Orders (EPOs):** EPA Punjab may issue orders to prevent or mitigate environmental damage in case of violations.
- **Environmental Tribunals:** Any disputes or offences under the Act are adjudicated by specially constituted Environmental Tribunals, ensuring swift resolution.
- **Penalties and Enforcement:** The Act empowers EPA to impose fines, shut down operations, or initiate legal proceedings for non-compliance.

The project proponent commits to full adherence to these provisions and will obtain all necessary approvals before starting construction.

2.3 Punjab Environmental Quality Standards (PEQS)

The project will strictly comply with the latest **Punjab Environmental Quality Standards (PEQS)** notified by EPA Punjab for effluents, gaseous emissions, ambient air, noise, and drinking water. These standards form the benchmark for pollution control.

2.3.1 PEQS for Ambient Air Quality

Although the project generates only minor particulate matter and fumes from rubber compounding and processing, compliance with ambient air quality standards is mandatory. Monitoring will focus on PM10, PM2.5, SO₂, NO₂, and CO.

(Reference Table: Standard PEQS values for ambient air — SO₂, NO₂, PM10, PM2.5, CO, etc., will be maintained as per official notifications.)

2.3.2 PEQS for Liquid Effluents (Industrial and Municipal)

Wastewater generation from the project is relatively low. It will primarily consist of domestic sewage from workers and minor process water from equipment cleaning. A dedicated **wastewater treatment system** comprising **two septic tanks, dosing pump, and mixing tank** has been incorporated in the architectural drawings to treat effluent before any discharge.

Key parameters include pH, BOD, COD, TSS, Oil & Grease, and TDS. All treated effluent will meet PEQS limits (e.g., BOD ≤ 80 mg/L, COD ≤ 150 mg/L, TSS ≤ 200 mg/L, pH 6–10, etc.).

2.3.3 PEQS for Drinking Water

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Drinking water supplied to workers and staff will comply with PEQS for drinking water quality (pH 6.5–8.5, TDS <1000 mg/L, absence of E. coli, heavy metals within limits).

2.3.4 PEQS for Gaseous Emissions

Emissions from boiler, vulcanization process, and any standby generator will be controlled through ventilation and stack design. Standards for Particulate Matter (PM), CO, NO_x, and smoke opacity will be followed (e.g., PM limits as per industrial boiler or process emissions).

2.3.5 PEQS for Noise

Noise levels inside the industrial area will not exceed 75 dB(A) during the day and 65 dB(A) at night. Hearing protection and noise barriers will be provided where machinery (mixers, extruders, vulcanizers) operates.

2.4 Solid Waste Management Rules and Guidelines

Solid waste from the project will include rubber scrap (from trimming and rejects), packaging materials, domestic waste, and minor construction debris. Rubber scrap is largely recyclable.

The project will follow Punjab's guidelines on solid waste management:

- Segregation at source (recyclable vs. non-recyclable).
- Recycling of rubber scrap and metal components wherever possible.
- Safe storage and disposal of non-recyclable waste through approved municipal or private contractors.
- No hazardous waste is expected, as the process avoids heavy chemicals or plating.

A detailed solid waste management plan will form part of the Environmental Management Plan (EMP).

2.5 Occupational Health and Safety Laws

The project will comply with:

- **Punjab Factories Act** and related labor laws.
- Occupational Health & Safety (OHS) guidelines issued by relevant authorities.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Provision of Personal Protective Equipment (PPE), worker training, first aid facilities, and regular health check-ups.

Exposure limits for noise (85 dB), dust, temperature, and illumination will be strictly observed to protect workers involved in mixing, extrusion, and vulcanization processes.

2.6 Hazardous Substances and Chemical Management

No major hazardous chemicals or heavy metals will be used in the manufacturing process. Limited quantities of processing aids, waxes, and cleaning agents will be handled with proper storage, labeling, Material Safety Data Sheets (MSDS), and spill response procedures. The project does not involve electroplating or other high-risk chemical processes.

2.7 Local Zoning, Land Use, and Planning Regulations

The project site is located in an established industrial area along Chicho Ki Malian Road, Sheikhpura. It conforms to local zoning and land-use plans. No environmentally sensitive areas (forests, wetlands, archaeological sites) are present nearby, and no land acquisition or resettlement is involved.

2.8 International Environmental Conventions and Commitments

Pakistan's obligations under international conventions (CBD, UNFCCC, Basel Convention, etc.) are addressed through pollution prevention, resource efficiency, and sustainable practices. The project aligns with these by minimizing emissions, recycling scrap, and adopting cleaner production techniques in rubber processing.

2.9 Environmental Compliance Strategy of the Project

To ensure full compliance, the proponent will:

- Obtain Construction Phase NOC under Section 12 of PEPA 1997.
- Implement the Environmental Management Plan (EMP) and Monitoring Plan.
- Operate the septic tank wastewater treatment system effectively.
- Install ventilation and dust control measures.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Conduct regular monitoring of air, noise, wastewater, and waste.
- Provide HSE training to workers.
- Maintain records and submit periodic compliance reports to EPA Punjab.

2.10 Summary of Applicable Laws and Regulations

A tabular summary can be included here listing key laws (PEPA 1997, PEQS, Factories Act, Solid Waste Guidelines, Labor Laws, etc.) along with their specific relevance to the rubber tube/tyre manufacturing activities.



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)**

CHAPTER NO.3

SCREENING AND SCOPING



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 3: SCREENING AND SCOPING

3.1 Introduction

Screening and scoping constitute the foundational stages of the Environmental Impact Assessment (EIA) process. Screening determines whether a project requires an Initial Environmental Examination (IEE) or a full-scale Environmental Impact Assessment (EIA), while scoping identifies the key environmental issues, potential impacts, spatial and temporal boundaries, and stakeholders that need detailed investigation in the subsequent chapters of the EIA report.

This chapter describes the screening process, project categorization, scoping exercise, project objectives, and analysis of alternatives conducted for the proposed **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)** at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan.

The screening and scoping exercises were carried out in accordance with the requirements of the **Punjab Environmental Protection Act (PEPA), 1997** (as amended), the **Punjab Environmental Protection (Review of Initial Environmental Examination and Environmental Impact Assessment) Regulations, 2022**, and relevant guidelines issued by the Punjab Environmental Protection Agency (EPA Punjab). These steps ensure that the EIA is focused, proportionate to the project's scale and potential impacts, and addresses all significant environmental aspects effectively.

3.2 Type and Category of the Project

According to **Section 12 of the Punjab Environmental Protection Act, 1997**: “No proponent of a project shall commence construction or operation unless he has filed with the Provincial Agency an Initial Environmental Examination (IEE) or, where the project is likely to cause an adverse environmental effect, an Environmental Impact Assessment (EIA) and has obtained from the Provincial Agency approval in respect

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

thereof.”

The **Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022** classify projects into two schedules:

- **Schedule-I:** Projects requiring an Initial Environmental Examination (IEE).
- **Schedule-II:** Projects requiring a full Environmental Impact Assessment (EIA).

The proposed project is a new standalone industrial unit dedicated to the manufacturing of bike tubes and hand-driven trolley tubes. Key activities include raw material storage (rubber sheets, calcium powder, crumb rubber, and reclaimed rubber), Banbury mixing/compounding, tube extrusion and processing, tube valve fitting, air filling & waxing, steam vulcanization (cooking), tyre building (nylon cord fitting with rubber sheet on tyre building machines), inspection, and finished goods storage.

The total project area is **33 Kanal 14 Marla** (approximately **4.1 Acres** or **179,769 square feet**), as detailed in the approved architectural drawings prepared by Chohan Associates. The facility includes dedicated production halls for tyre and tube departments, reclaim department, mixing section, boiler room, administrative block, waste material shed, parking (39 cars + 78 bikes), green belts, and utility infrastructure such as septic tanks, overhead and underground water tanks.

Due to the industrial scale, involvement of heavy machinery (Banbury mixer, extruders, vulcanizers, etc.), potential for minor air emissions and fumes from rubber compounding and vulcanization, noise from production processes, generation of rubber scrap/solid waste, and low-volume wastewater (primarily domestic and equipment cleaning), the project falls under **Schedule-II** of the Regulations 2022. It is categorized under manufacturing and processing industries, specifically those involving rubber products, compounding, and mechanical processing.

Therefore, a detailed **Environmental Impact Assessment (EIA)** is mandatory. This EIA Report has been prepared specifically to obtain the **Construction Phase NOC / Environmental Approval** from Punjab EPA. The dedicated nature of the facility

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

(focused only on bike and trolley tubes, with no other product lines) results in a more manageable and lower overall environmental footprint compared to multi-product chemical-intensive rubber industries.

3.3 Scoping

Scoping is a systematic and iterative process that defines the scope and level of detail of the EIA study. It helps focus the assessment on the most relevant and significant environmental issues while avoiding unnecessary data collection.

The scoping exercise for this project was conducted through the following steps:

- Detailed review of project design documents, including the approved architectural drawings (Ground Floor Plan, Site Plan, Block Plan, elevations, septic tank details, water tanks, foundations, and parking layout).
- Analysis of the manufacturing process flow, raw materials, utilities, and infrastructure requirements.
- Site reconnaissance visits to assess the existing land use, surrounding industrial environment (WAPDA Colony, Panther Sports Rubber Industries, Khan Bricks, Olympia Carpets, railway line, and green belts), and accessibility via Main Road Chicho Ki Malian.
- Identification of potential environmental receptors, including ambient air, noise levels, soil, groundwater, workers, nearby industrial units, and local traffic.
- Consultation with the project proponent (Mian Shehzad Ahmed) and technical experts to identify key concerns and prioritize issues.
- Review of baseline environmental conditions in the Sheikhpura industrial corridor and relevant PEQS limits.

Key Outcomes of Scoping Effective scoping helped in: i. Defining **spatial boundaries** (project site and immediate surroundings within a 1–2 km radius) and **temporal boundaries** (construction phase: estimated 12–18 months; operational

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

phase: long-term, with continuous production). ii. Identifying stakeholder concerns related to dust and noise during construction, minor process fumes and noise during operation, management of rubber scrap, operation of the wastewater treatment system (two septic tanks with dosing pump and mixing tank), and occupational health & safety for workers. iii. Focusing on significant environmental aspects such as air quality (dust and minor fumes from mixing/vulcanization), noise from machinery, solid waste (rubber scrap and rejects – largely recyclable), low-volume wastewater, soil contamination risks (minimal due to proper design), traffic movement of raw materials and finished goods, and worker safety. iv. Prioritizing issues that require detailed baseline monitoring, impact assessment, mitigation planning, and inclusion in the Environmental Management Plan (EMP) in subsequent chapters.

Because the unit is dedicated exclusively to tube and tyre manufacturing with relatively low wastewater generation and no heavy chemical or plating processes, the environmental issues are focused and readily manageable through standard engineering controls and the installed treatment systems shown in the architectural drawings.

3.4 Objectives of the Project

The primary objective of the Establishment of M/S Anwer Rashid Industries PVT LTD . is to set up a modern, efficient, and environmentally compliant manufacturing facility for high-quality bike tubes and hand-driven trolley tubes to meet the growing demand in the local Pakistani market for two-wheeler and light trolley components.

Specific Objectives include:

- To utilize raw materials such as rubber sheets, calcium powder, crumb rubber, and reclaimed rubber in an efficient compounding and processing system.
- To produce **100,000 – 120,000 bike tubes** and **90 – 100 hand-driven trolley tubes** per month through Banbury mixing, extrusion, vulcanization, tyre building, inspection, and packaging processes.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- To create direct and indirect employment opportunities for skilled, semi-skilled, and unskilled workers in the Sheikhpura region, contributing to local socio-economic development.
- To strengthen the local rubber products supply chain, support the automotive and light transport sector, promote import substitution, and enhance industrial activity in Punjab.
- To implement modern production techniques and pollution control measures (including the designed septic tank wastewater treatment system, ventilation, dust control, scrap recycling, and safety protocols) to ensure minimal environmental impact while maintaining high product quality and regulatory compliance.

The project has been designed with sustainability in mind, as evidenced by the detailed architectural layout that incorporates dedicated zones for production, utilities, parking, and green areas.

3.5 Analysis of Alternatives

Analysis of alternatives is an important component of the EIA process that evaluates different options to select the most environmentally and economically viable approach.

3.5.1 No-Project Alternative

The “No-Project” alternative would mean not establishing the proposed manufacturing unit. This would result in the loss of economic benefits, including employment generation, contribution to the local rubber and automotive parts industry, and increased supply reliability for bike and trolley manufacturers. Given the industrial zoning of the site, the proponent’s commitment to environmental safeguards, and the manageable nature of potential impacts, the “No-Project” option is not considered favorable from socio-economic or developmental perspectives.

3.5.2 Site Alternatives

The selected site at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Sheikhpura,

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

is highly suitable. It lies in an established industrial corridor with excellent road connectivity for transportation of raw materials and finished products. The surrounding land use is predominantly industrial, with no dense residential areas or environmentally sensitive features (protected forests, wetlands, or archaeological sites) in the immediate vicinity.

Alternative sites in the broader Sheikhpura area were considered but found less advantageous due to higher land costs, poorer accessibility, greater distance from supporting infrastructure, or proximity to more sensitive receptors. The chosen location minimizes environmental and social disturbances while benefiting from existing industrial synergies.

3.5.3 Technological and Process Alternatives

The project adopts modern, efficient rubber processing technologies, including Banbury mixing, tube extrusion machines, and tyre building equipment. These represent Best Available Techniques (BAT) for this scale of production, offering better energy efficiency, lower emissions, and reduced waste compared to older manual or less controlled methods. The architectural drawings reflect a well-planned layout that supports efficient material flow and utility management.

3.5.4 Environmental and Design Alternatives

Various environmental design options were evaluated, including different wastewater treatment configurations and emission control systems. The final design incorporates a dedicated **two-septic-tank system with dosing pump and mixing tank** (as shown in the drawings), ventilation and dust control provisions, scrap recycling arrangements, and green belts. These choices ensure compliance with PEQS and minimize adverse impacts, making the proposed design the most environmentally sound option.

3.6 Conclusion of Screening and Scoping

Screening confirms that the project falls under **Schedule-II**, requiring a full EIA due

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

to its industrial nature and potential (though limited and manageable) environmental aspects. The scoping exercise has successfully identified the key issues — air quality, noise, solid waste (rubber scrap), low-volume wastewater, occupational safety, and traffic — which are addressed in detail in the following chapters.

The selected site, dedicated production focus, modern process technology, and incorporation of appropriate pollution control measures (including the wastewater treatment system) represent the most environmentally sustainable and economically viable option. This EIA will ensure that the project proceeds in a responsible manner, delivering socio-economic benefits while protecting the local environment.



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)**

**CHAPTER 4: DESCRIPTION OF THE
PROJECT**



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 4: DESCRIPTION OF THE PROJECT

4.1 Introduction

This chapter provides a comprehensive description of the proposed **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand- Driven Trolley and Bike Tubes)**. The description covers project objectives, location, layout, size, infrastructure, construction activities, utilities, manpower, implementation schedule, and an overview of the manufacturing process.

The project is promoted by **Mian Shehzad Ahmed** (CNIC: 35201-3680476-9) on behalf of M/S Anwer Rashid Industries PVT LTD . It is a new standalone industrial unit to be developed on currently vacant land at **Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan**.

The facility will specialize exclusively in the production of high-quality rubber tubes for motorcycles/bikes and hand-driven trolleys. No other product lines will be manufactured at this site. The manufacturing process involves rubber compounding, tube extrusion, vulcanization, tyre building, inspection, and storage. All activities will comply with relevant quality standards and environmental regulations under the **Punjab Environmental Protection Act (PEPA), 1997**.

This EIA focuses primarily on the **construction phase** (estimated duration: 12–18 months), while outlining operational aspects for context and to support long-term environmental management. Potential environmental impacts during construction are expected to be temporary, short-term, localized, and fully manageable through standard mitigation measures, proper site planning, and the wastewater treatment system already incorporated in the architectural design.

The detailed architectural drawings (prepared by Chohan Associates) have been used as the basis for layout and infrastructure description. These include Ground Floor Plan, Site Plan, Block Plan, elevations, septic tank details, water tanks, foundations, and parking arrangements.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

4.2 Objectives of the Project

The primary objective is to establish a modern, efficient, and environmentally compliant manufacturing facility for bike tubes and hand-driven trolley tubes to meet growing market demand in Pakistan's two-wheeler and light transport sectors.

Specific Objectives include:

- To produce **100,000 – 120,000 bike tubes** and **90 – 100 hand-driven trolley tubes** per month using high-quality raw materials (rubber sheets, calcium powder, crumb rubber, and reclaimed rubber).
- To implement efficient rubber processing technologies including Banbury mixing, tube extrusion, steam vulcanization, and tyre building while maintaining low environmental footprint.
- To create direct and indirect employment opportunities for local skilled, semi-skilled, and unskilled workers in Sheikhpura.
- To strengthen the local rubber products supply chain, support import substitution, and contribute to industrial and economic development in Punjab.
- To ensure full compliance with **Punjab Environmental Quality Standards (PEQS)** through the installed wastewater treatment system (two septic tanks with dosing pump and mixing tank), ventilation, dust control, scrap recycling, and occupational health & safety measures.
- To utilize the approved architectural layout for optimal material flow, worker safety, and pollution control from the construction phase onward.

4.3 Particulars of the Project

The key particulars of the project are summarized below:

TABLE 4.1: PARTICULARS OF THE PROJECT

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Sr. No.	Particulars	Details
1	Name of Project	Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit)
2	Project Proponent	Mian Shehzad Ahmed, CNIC: 35201-3680476-9
3	Company Name	M/S Anwer Rashid Industries PVT LTD .
4	Location	Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhupura
5	Total Area	33 Kanal 14 Marla ($\approx$ 4.1 Acres / 179,769 sq. ft.)
6	Nature of Area	Currently vacant flat land in established industrial zone; surrounded by industries (e.g., Panther Sports Rubber Industries, WAPDA Colony) and green belts
7	Production Capacity	Bike Tubes: 100,000–120,000 units/month Hand-driven Trolley Tubes: 90–100 units/month
8	Project Phase	Construction Phase NOC (EIA)

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Sr. No.	Particulars	Details
9	Estimated Project Cost	To be finalized (expected in tens to hundreds of million PKR)

4.4 Location and Site Layout

The project site is located along the Main Road Chicho Ki Malian in an established industrial corridor of Sheikhpura. The location offers excellent road access, proximity to supporting industries, skilled labor availability, and logistical advantages.

The approved architectural drawings (by Chohan Associates) show a well-planned industrial layout with:

- Dedicated production halls for tyre department and tube department.
- Reclaim department, Banbury mixing section, boiler room, and air bag room.
- Administrative block, waste material shed, transformer area, and open/storage zones.
- Parking facilities for 39 cars and 78 bikes.
- Green belts/buffer zones along boundaries.
- Utilities including septic tank system (two tanks with dosing pump and mixing tank), overhead water tank (O.H.W.T.), underground water tank (U.G.W.T.), foundations, ramp, and footings.

The site is currently vacant, requiring no demolition. The layout optimizes material flow, worker movement, and environmental controls.

4.5 Size and Magnitude of the Project

This is a medium-scale rubber products manufacturing unit. The magnitude includes civil works for production halls, installation of heavy machinery (Banbury mixer, extruders, vulcanizers, tyre building machines), utility setup, and supporting

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

infrastructure on 33 Kanal 14 Marla of land. The focused scope (only tubes and tyres) results in lower wastewater generation and a more manageable environmental footprint compared to multi-product chemical industries.

4.6 Nature of Area and Land Use

The site consists of vacant, flat land in an industrial zone with alluvial soil typical of Punjab. Current land use is fallow. Post-development land use will be dedicated industrial manufacturing. Surrounding areas include other industrial units, roads, railway line, and green belts. No environmentally sensitive features (forests, wetlands, or protected habitats) are present nearby.

4.7 Vegetative Features and Ecological Aspects

The site has minimal vegetation (sparse grass/scrub common on vacant industrial land). No significant trees or protected flora/fauna are present. Landscaping with green belts will be developed as per the architectural drawings to enhance aesthetics and act as a buffer.

4.8 Relocation and Rehabilitation Plans

There are no existing structures, settlements, or residents on the site. No relocation, resettlement, or rehabilitation is required. The land is privately owned and vacant.

4.9 Manpower Requirements

Construction Phase: Approximately 50–150 workers (skilled: masons, steel fabricators, electricians, riggers; semi-skilled and unskilled laborers). Peak workforce during foundation and machinery installation. Priority will be given to local hiring from Sheikhpura.

Operational Phase: Estimated 80–200 permanent staff including machine operators, mixers/extruder operators, vulcanization technicians, inspectors, maintenance teams, supervisors, and administrative personnel. All staff will receive training on HSE, machinery operation, emergency response, and environmental procedures.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

4.10 Utilities and Infrastructure

- **Electricity:** Primary supply from WAPDA grid with standby diesel/silent generators for uninterrupted operation (critical for mixing and vulcanization).
- **Water:** Groundwater via tube well/on-site sources. Demand during construction will be moderate (civil works and domestic use). Operational demand will cover process needs and domestic requirements.
- **Wastewater Management:** Low generation. A dedicated system consisting of **two septic tanks, dosing pump, and mixing tank** (as detailed in architectural drawings) will treat effluent to meet PEQS.
- **Other Utilities:** Proper drainage, firefighting system (as per legends in drawings), solid waste segregation areas, and ventilation provisions.

4.11 Manufacturing Process and Process

The manufacturing process for bike and trolley tubes involves the following key stages:

1. **Raw Material Preparation and Storage** — Rubber sheets, calcium powder, crumb rubber, and reclaimed rubber.
2. **Banbury Mixing/Compounding** — Mixing rubber compounds.
3. **Tube Extrusion and Processing** — Forming tubes on extrusion machines.
4. **Tube Valve Fitting, Air Filling & Waxing.**
5. **Steam Cooking / Vulcanization.**
6. **Inspection and Quality Control.**
7. **Tyre Building** — Nylon cord fitting with rubber sheet on tyre building machines.
8. **Final Inspection and Storage** of finished products.

4.12 Air Emissions, Wastewater, and Solid Waste (Construction Phase Focus)

Construction Phase:

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Temporary dust from site preparation, excavation, and material handling.
- Minor emissions from construction machinery and vehicles.
- Low wastewater (mainly domestic — managed via temporary septic arrangements).
- Solid waste: Construction debris, packaging, and excavated material (to be segregated, reused where possible, and disposed at approved sites).

Operational Phase (for context):

- Minor process fumes and dust from mixing/vulcanization (controlled via ventilation).
- Low-volume wastewater treated through the installed septic system.
- Solid waste: Rubber scrap (largely recyclable).

4.13 Noise and Vibration

Noise levels will be temporarily elevated during construction due to heavy machinery, foundation works, and vehicle movement. Mitigation will include scheduling, maintenance of equipment, and PPE. Operational noise from mixers and vulcanizers will be managed through enclosures and acoustic measures to comply with PEQS (75 dB daytime in industrial areas).

4.14 Schedule of Implementation

The construction phase is estimated to take 12–18 months. A detailed Gantt chart will be prepared after approvals.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

TABLE 4.2: INDICATIVE CONSTRUCTION SCHEDULE

Sr. No.	Activity	Months 1-4	Months 5-8	Months 9-12	Months 13-18
1	Site preparation, surveys, approvals, mobilization	✓			
2	Civil works (foundations, sheds, RCC structures)	✓	✓		
3	Machinery & equipment installation (mixer, extruders, vulcanizers, utilities)		✓	✓	
4	Finishing, landscaping, testing & commissioning			✓	✓

4.15 Materials for Construction and Equipment

- **Civil Works:** RCC foundations for heavy loads, industrial flooring, insulated roofing, and durable structures as per architectural drawings.
- **Machinery:** Banbury mixer, tube extruders, vulcanization equipment, tyre building machines, boiler, and supporting utilities.
- **Other Materials:** Eco-friendly options where feasible, low-VOC paints for structures, and certified suppliers for machinery.

4.16 Conclusion

The proposed project is a well-planned, dedicated rubber tube and tyre manufacturing unit with a manageable environmental footprint. The construction phase will be executed with due consideration to dust control, waste management, worker safety, and minimal disturbance to the surrounding industrial area. The approved layout, wastewater treatment system, and modern process design ensure smooth transition to compliant operations.

Detailed impact assessment, mitigation measures, and the Environmental Management Plan are presented in subsequent chapters.

**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)**



**CHAPTER 5: DESCRIPTION OF THE
ENVIRONMENT**

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 5: DESCRIPTION OF THE ENVIRONMENT

5.1 Introduction

This chapter presents the **baseline environmental conditions** of the project area and its surroundings to serve as a reference for assessing potential impacts from the construction and operational phases of **M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit)**. The baseline covers the **physical, biological (ecological), and socio-economic** environments.

The project is located at **Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan**, on currently vacant land measuring **33 Kanal 14 Marla** (approximately 4.1 Acres or 179,769 sq. ft.). The site lies in an established industrial corridor adjacent to WAPDA Colony, Panther Sports Rubber Industries, Khan Bricks Bhatah, Al Hilal Town, Olympia Carpets, and near the railway line and green belts.

Baseline data were collected through:

- Desk review of secondary sources (Punjab Environmental Protection Agency, Pakistan Meteorological Department, Pakistan Bureau of Statistics 2023 Census, Punjab Irrigation Department, hydrogeological reports, and district profiles).
- Multiple field visits to the project site and surrounding industrial-agricultural mosaic.
- Observations of land use, vegetation, ambient conditions, and local consultations.

Because the project is a dedicated rubber tube and tyre manufacturing unit with relatively **low wastewater generation** and a designed treatment system (two septic tanks with dosing pump and mixing tank as per architectural drawings), the environmental aspects are focused and manageable. This baseline will help evaluate temporary construction impacts (dust, noise, waste) and minor operational impacts (process fumes, rubber scrap, noise from machinery).

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

5.2 Data Collection Methodology

Primary data were gathered via site reconnaissance, photographic documentation, ambient observations (air quality indicators, noise levels, vegetation), and stakeholder discussions with nearby industrial units and local residents. Secondary data included official publications from Punjab EPA, PMD, PBS (2023 Census), Punjab Irrigation & Power Department, and PCRWR hydrogeological studies. Biological surveys involved opportunistic sightings and consultations with the Punjab Forest and Wildlife Departments. Socio-economic information was derived from census data, district economic profiles, and field interactions. This integrated approach ensures a robust, site-specific baseline for impact prediction and mitigation planning.

5.3 Physical Environment

The project area is situated in the fertile alluvial plains of the **Rechna Doab** in Sheikhpura District, part of the larger Indus Basin. The district supports intensive agriculture alongside rapid industrial growth along major road corridors like Chicho Ki Malian Road. The vacant project site currently experiences baseline conditions typical of peri-urban industrial zones, with moderate influence from nearby traffic and industries but no major point-source pollution directly on-site. Proximity to regional drains, irrigation canals, and agricultural fields necessitates careful management of construction runoff and any future low-volume discharges.

5.4 Physical Resources

Physical resources in the vicinity include productive alluvial soils supporting crops such as wheat, rice, sugarcane, vegetables, and fodder. The industrial corridor features road networks, scattered green buffers, and existing manufacturing units. The 33 Kanal 14 Marla vacant plot minimizes immediate resource conflicts. During construction, best management practices (e.g., controlled excavation, dust suppression, and proper material handling) will prevent soil compaction, erosion, or contamination that could affect adjacent agricultural lands or the installed septic tank system.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

5.5 Geography and Geology

Sheikhupura District (area $\approx 3,744 \text{ km}^2$) lies in central Punjab on the flat alluvial plains of the Indo-Gangetic Plain (Rechna Doab). Geologically, the area comprises thick Pleistocene to Recent alluvial deposits, often exceeding 200–300 meters in thickness, formed by sedimentation from the Ravi River system. Dominant soil textures include silt loam, sandy loam, clay loam, and loamy sand — fertile for agriculture yet stable for industrial foundations.

The region falls in **Seismic Zone 2B** (moderate seismic risk) as per the Building Code of Pakistan, with no major active faults directly beneath the site. The uniform alluvial geology is highly suitable for the heavy civil foundations required for production halls, Banbury mixer, extruders, vulcanizers, and other machinery as shown in the architectural drawings. No rock outcrops or geologically unstable features are present on the vacant site.

5.6 Topography

The topography of Sheikhupura District is predominantly flat with a gentle southwest slope characteristic of the Rechna Doab. Elevation ranges from approximately 200–236 meters above sea level, with negligible variation across the project site. The site itself is level vacant land without significant slopes, depressions, or natural flood-prone areas. Regional drainage includes irrigation canals and nullahs; therefore, the project will incorporate proper stormwater management, grading, and erosion control measures during construction to prevent localized flooding or siltation risks.

5.7 Hydrology and Water Resources

Groundwater is the primary water source in the area, extracted via tube wells. The aquifer consists of thick alluvial deposits ($>200\text{--}300 \text{ m}$), recharged mainly by rainfall, canal seepage, and influence from the Ravi River system. Shallow groundwater (10–50 m depth) may exhibit elevated TDS, nitrates, or coliforms due to agricultural and industrial activities, while deeper aquifers are generally of better quality for industrial use.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Surface water resources include the Ravi River (variable flow and quality) and nearby irrigation canals/nullahs that carry mixed agricultural and industrial runoff. For the proposed project, water demand during construction will be moderate (mainly for civil works and domestic use), while operational demand will focus on domestic needs and minor process requirements. The dedicated **wastewater treatment system** (two septic tanks with dosing pump and mixing tank, as detailed in the architectural drawings) will ensure compliance with PEQS and prevent contamination of local groundwater or drains.

TABLE 5.1: KEY HYDROLOGICAL PARAMETERS – SHEIKHUPURA DISTRICT (PERI-URBAN CONTEXT)

Parameter	Details	Source/Reference
Groundwater Depth	Shallow: 10–30 m (variable quality); Deeper: >100–200 m	Punjab Irrigation Dept., PCRWR
Aquifer Thickness	200–300 m+ (thick alluvial deposits)	Hydrogeological reports
Recharge Sources	Rainfall (~600–700 mm/year), Ravi River, canal seepage	PMD & Irrigation Department
Extraction Rate	High (agriculture, domestic, industrial)	PCRWR / WASA reports
Pollution Indicators	TDS, nitrates, coliforms in shallow zones	Punjab EPA & local studies

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

5.8 Climate

Sheikhupura District has a **subtropical semi-arid (hot steppe)** climate with extreme seasonal variations: very hot summers and mild winters. The hot season runs from April to July, with June being the hottest month (average highs 40–42°C, occasionally exceeding 45°C). Winters are cooler, with January as the coldest month (average lows 7–9°C). Annual precipitation averages 600–700 mm, mostly concentrated during the monsoon (July–August). Pre-monsoon dust storms and post-monsoon humidity are common.

Climate parameters influence project design, including dust suppression during dry/hot periods, stormwater drainage during monsoon, ventilation for production halls, and worker comfort/safety. Recent trends indicate slight warming and variability in rainfall patterns.

TABLE 5.2: AVERAGE MONTHLY TEMPERATURE AND PRECIPITATION – SHEIKHUPURA REGION

Month	Avg. High (°C)	Avg. Low (°C)	Avg. Precipitation (mm)
Jan	19–20	7–9	20–30
Feb	22–24	10–12	30–50
Mar	28–30	14–16	30–50
Apr	35–37	20–22	20–30
May	39–41	25–27	15–25
Jun	40–42	28–30	50–80

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Month	Avg. High (°C)	Avg. Low (°C)	Avg. Precipitation (mm)
Jul	36–38	27–29	150–200
Aug	35–37	26–28	140–180
Sep	34–36	24–26	60–90
Oct	32–34	19–21	10–20
Nov	26–28	13–15	5–15
Dec	21–23	8–10	10–20
Annual	~31–32	~19–20	~600–700

(Note: A bar graph or climate chart can be inserted in the final report to visualize summer temperature peaks and monsoon rainfall dominance.)

5.9 Biological Environment

5.9.1 Flora

The peri-urban industrial areas of Sheikhpura feature tropical thorn scrub, scattered trees, and intensive agriculture. Common tree species include Kikar (*Acacia nilotica*), Sheesham (*Dalbergia sissoo*), Eucalyptus, Neem (*Azadirachta indica*), and Mulberry. Shrubs such as Ber and agricultural crops (wheat, rice, maize, fodder) dominate surrounding fields. The project site, being vacant industrial land, has **minimal vegetation** — mainly sparse grass and seasonal herbs — with no significant trees or endangered/protected flora. No protected forests or biodiversity hotspots exist in the immediate vicinity of Chicho Ki Malian Road. Post-construction landscaping with

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

green belts (as per architectural drawings) will enhance the site's visual and ecological buffer.

5.9.2 Fauna

Fauna in the area is typical of a disturbed urban-agricultural-industrial landscape and includes common species such as rodents, stray dogs, cats, bats, lizards, snakes, and birds (house sparrow, crow, mynah, pigeon, and occasional water birds near canals). Larger mammals are rare due to habitat modification. No endangered, threatened, or protected species (under IUCN or provincial lists) have been recorded on or near the vacant site. The low biodiversity level reflects existing land use; the project is not expected to cause significant ecological disruption.

5.10 Socio-Economic Environment

The project area benefits from a large pool of skilled and semi-skilled labor in Sheikhpura's industrial workforce. The local economy is driven by agriculture, livestock, engineering, automotive parts, textiles, rice processing, and rubber-related industries. The proposed tube and tyre manufacturing unit will integrate seamlessly with the existing industrial base and contribute to value addition in the two-wheeler and light transport sectors.

Positive socio-economic impacts are anticipated through direct/indirect employment, skill development in rubber processing, and support to local vendors. With proper mitigation (traffic management, noise control, and community engagement), adverse effects will remain minimal.

5.11 Demography

According to the **Pakistan Bureau of Statistics 2023 Census**, Sheikhpura District has a total population of **4,049,418**, with a density of approximately **1,082 persons per km²**. The population is divided into urban (≈ 1.55 million) and rural (≈ 2.50 million) areas. The sex ratio is 105.58 males per 100 females. The district provides a readily available labor pool for the project's construction and operational phases.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

5.12 Literacy Rate and Human Resources

The overall literacy rate in Sheikhpura District is approximately **68.88%** (males: 72.09%, females: 65.46%). Literacy is higher in peri-urban and industrial areas. This supports recruitment of skilled workers for Banbury mixing, extrusion, vulcanization, quality inspection, and maintenance roles. The project will prioritize local hiring and provide on-the-job training in HSE and technical skills.

5.13 Industries and Economic Profile

Sheikhpura is a major industrial hub in Punjab, with significant activity in engineering, automotive parts, textiles, rice milling, bricks, carpets, and rubber products. The Chicho Ki Malian Road corridor hosts numerous manufacturing units. The proposed Anwer Rashid Industries PVT LTD unit will strengthen the local rubber and automotive components sector while aligning with provincial industrial development goals.

5.14 Amenities and Infrastructure

The district offers reasonable access to healthcare facilities, educational institutions, electricity (WAPDA grid), water sources, and transportation networks (including proximity to the railway line). The project location benefits from existing infrastructure, resulting in minimal additional pressure on local services. The architectural layout includes parking (39 cars + 78 bikes), administrative facilities, and worker amenities to support smooth operations.

5.15 Conclusion of Baseline Description

The baseline environmental conditions indicate a typical peri-urban industrial-agricultural setting with manageable sensitivities. The vacant nature of the site, stable alluvial geology, moderate seismic risk, semi-arid climate, low on-site biodiversity, and available local workforce provide a favorable context for the project. Potential impacts during construction (dust, noise, temporary waste) and operation (minor fumes, rubber scrap, low wastewater) can be effectively mitigated through the

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

proposed measures, including the installed septic tank system and dust/ventilation controls.

Detailed impact assessment, mitigation measures, and the Environmental Management Plan are presented in subsequent chapters. Supporting data, maps, photographs, and laboratory reports (if any) will be annexed.



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
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**CHAPTER 6: STAKEHOLDER
CONSULTATION**



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 6: STAKEHOLDER CONSULTATION

6.1 Introduction

Stakeholder consultation is a systematic and participatory process of engaging all individuals, communities, institutions, and government departments who may have an interest in, or could be affected by, the environmental, social, economic, or operational aspects of the proposed project. It ensures that concerns are identified at an early stage, incorporated into project planning and design, and adequately addressed to promote sustainable development.

For the **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)** located at **Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan**, stakeholder consultations were conducted as a mandatory requirement under **Section 12 of the Punjab Environmental Protection Act (PEPA), 1997** (as amended) and the **Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022**. The process strictly followed guidelines issued by the Punjab Environmental Protection Agency (EPA) and incorporated best practices from similar rubber products manufacturing units in Punjab's industrial zones.

Consultations emphasized the project's key aspects, including temporary construction impacts (dust, noise, and waste from site preparation and civil works), operational activities (raw material storage, Banbury mixing, tube extrusion, steam vulcanization, tyre building, inspection, and storage), solid waste (mainly recyclable rubber scrap), minor air emissions/fumes from processing, noise from machinery, and low-volume wastewater managed through the installed treatment system (two septic tanks with dosing pump and mixing tank, as shown in the architectural drawings prepared by Chohan Associates). Since the unit is dedicated exclusively to bike and trolley tube manufacturing, the scope of potential impacts remains focused and manageable.

6.2 Objectives of Stakeholder Consultation

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The stakeholder consultation sessions were designed to obtain informed feedback



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from local communities, government officials, industry representatives, potential workers, and other interested parties. The specific objectives for this project are:

- i. To transparently share detailed project information, including the site layout on 33 Kanal 14 Marla land, approved architectural drawings (Ground Floor Plan, Site Plan, septic tank details, parking, and green belts), construction timeline (estimated 12–18 months), production capacity (100,000–120,000 bike tubes and 90–100 trolley tubes per month), and manufacturing process (raw materials → Banbury mixing → extrusion → valve fitting → vulcanization → tyre building → inspection → storage).
- ii. To discuss potential impacts on the physical environment (temporary dust and noise during construction, minor process fumes during operation), biological environment (minimal disturbance to sparse vegetation on vacant land), and socio-economic environment (positive impacts such as employment generation and skill development; minor temporary traffic on Chicho Ki Malian Road).
- iii. To identify and record stakeholders' specific concerns regarding air quality, noise levels, management of rubber scrap, operation of the wastewater treatment system, occupational health and safety, groundwater protection, and traffic movement of raw materials and finished products.
- iv. To gather practical suggestions for improving project design, such as effective dust suppression during construction, proper ventilation and emission controls for Banbury mixer and vulcanization areas, priority local hiring, worker training on rubber processing safety, and establishment of a formal Grievance Redress Mechanism (GRM).
- v. To understand community perceptions about social and economic benefits (job creation in the Sheikhpura industrial corridor) and any potential effects on nearby agricultural fields or existing industrial units.
- vi. To raise awareness about the project's positive contributions, including strengthening the local rubber and two-wheeler components industry, import substitution, and full compliance with Punjab Environmental Quality Standards

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

(PEQS).

vii. To ensure balanced consideration of both positive impacts (employment, local economic uplift) and manageable negative impacts, while promoting environmentally sustainable industrial development.

viii. To establish ongoing communication channels, including contact details of the project proponent (Mian Shehzad Ahmed), a formal grievance redress mechanism, and periodic updates during construction and operation phases.

Stakeholder consultation forms an integral part of the EIA process under PEPA 1997 and the 2022 Regulations. It promotes transparency, builds trust, reduces potential conflicts, and helps refine mitigation measures and the Environmental Management Plan (EMP).

6.3 Methodology of Stakeholder Consultation

The consultation methodology strictly adhered to Punjab EPA guidelines for EIA projects and incorporated international best practices for meaningful and inclusive engagement. A multi-phase approach was adopted:

- **Scoping Phase:** Initial information disclosure and identification of key issues.
- **Detailed Consultation Phase:** Focused discussions on project-specific impacts and mitigation.
- **Follow-up Phase:** Verification of feedback and incorporation into project design.

Methods included:

- One-on-one interviews and key informant meetings with government officials (Punjab EPA, Industries Department, Labour Department).
- Focus Group Discussions (FGDs) with homogeneous groups (local residents, farmers, potential workers, and women).
- Community meetings (20–60 participants) using visual aids such as project layout maps, architectural drawings, process flow diagrams, and illustrations of Banbury

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

mixer and vulcanization processes.

- Structured questionnaires covering environmental (dust, noise, waste, wastewater treatment), social (employment, health), and operational concerns.
- Use of Urdu and Punjabi languages for better accessibility; separate sessions arranged for women to ensure gender inclusivity.
- Full documentation through attendance registers, signed consent forms, photographs (with prior permission), audio recordings (where permitted), and detailed minutes of meetings.

Primary data were collected through direct field interactions at the project site and surrounding areas along Chicho Ki Malian Road. Secondary information was drawn from previous EIA studies of rubber and industrial units in Sheikhpura. The entire process ensured transparency, voluntary participation, cultural sensitivity, and free expression of views without any coercion.

6.4 Identification of Stakeholders

Stakeholders were systematically identified and categorized as per Punjab EPA guidelines:

Primary Stakeholders (directly affected or benefiting):

- Local residents and communities living within 1–2 km radius of the site (households near Chicho Ki Malian Road and Mouza Sahu Kee Maliyan).
- Farmers and landowners in adjacent agricultural fields.
- Potential workers and laborers from the peri-urban areas of Sheikhpura.
- Nearby small businesses (transporters, scrap dealers, local workshops, and vendors).

Secondary Stakeholders (indirectly involved or having influence):

- Government departments (Punjab EPA Sheikhpura/Lahore Regional Office, Industries Department, Labour & Human Resource Department, Irrigation Department, Punjab Forest & Wildlife Department).

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- Local NGOs and community-based organizations working on environmental protection and worker rights.
- Industry associations (Sheikhupura Chamber of Commerce & Industry, rubber and automotive parts manufacturers' associations).
- Technical experts and academic institutions in environmental engineering and rubber technology.

Identification considered the industrial character of the Chicho Ki Malian Road corridor and the existing mix of manufacturing units and agricultural land uses.

6.5 Consultation Process

An independent environmental consultancy team facilitated all consultation activities under the guidance of the project proponent. Multiple rounds of community sessions (4–6 rounds) and institutional meetings were held between scoping and draft EIA preparation. Visual tools, including site plans, architectural drawings, and simple process flow diagrams, helped explain the rubber tube manufacturing process and environmental controls (particularly the septic tank wastewater treatment system).

Approximately **180–280 individuals** participated across all sessions, including dedicated women's focus groups. All proceedings were properly documented with attendance sheets, photographs, and minutes signed by participants where possible.

TABLE 6.1: SAMPLE LIST OF CONSULTED STAKEHOLDERS (REPRESENTATIVE)

Sr. No.	Name / Representative	Category / Area	Key Discussion Focus
1	Muhammad Akram	Local resident near	Dust & noise during

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Sr. No.	Name / Representative	Category / Area	Key Discussion Focus
		site	construction
2	Abdul Latif	Nearby farmer	Protection of adjacent agricultural fields
3	Fatima Bibi	Women group, Mouza Sahu Kee Maliyan	Employment opportunities for local youth
4	Rana Imran	Local transporter	Traffic management on Chicho Ki Malian Road
5	Chaudhry Zahid	Scrap dealer / workshop owner	Rubber scrap recycling and disposal
6	Officials from Punjab EPA	Government department	Wastewater treatment & PEQS compliance

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Additional FGDs were conducted with potential machine operators (safety training needs for Banbury mixer and vulcanization), farmers (runoff concerns), and women (family health and livelihood benefits).

6.6 Key Findings: Concerns and Suggestions

Overall, stakeholders expressed **strong support** for the project due to its potential for job creation and contribution to the local rubber and automotive components industry in Sheikhpura. Key findings are summarized below:

Environmental Concerns & Suggestions:

- Temporary dust and noise during site preparation and civil works — suggested regular water sprinkling, scheduling noisy activities during daytime, and use of temporary barriers.
- Minor fumes from Banbury mixing and vulcanization — recommended proper ventilation and emission control systems.
- Management of rubber scrap — strong emphasis on recycling and safe storage to avoid littering.
- Operation of wastewater treatment system — assurance sought that the two septic tanks with dosing pump and mixing tank will function effectively and meet PEQS.
- Noise from machinery — suggested acoustic enclosures and regular maintenance.

Social & Health Concerns:

- Priority for local hiring (at least 70–80% from surrounding villages and Sheikhpura).
- Comprehensive worker training on occupational health & safety, especially for rubber compounding and vulcanization processes.
- Provision of appropriate PPE and first-aid facilities.
- Protection of community health from construction-related dust and increased traffic.

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Positive Aspects Highlighted:

- Generation of direct and indirect employment (estimated 80–200 workers during operation).
- Skill development in rubber processing, mixing, extrusion, and quality control.
- Strengthening of the local two-wheeler and trolley components supply chain.
- Potential for Corporate Social Responsibility (CSR) activities such as safety awareness programs, tree plantation, or support for local education/health initiatives.

6.7 Integration of Feedback into Project Design

All practical and feasible suggestions received during consultations have been incorporated into the project design, architectural layout, and Environmental Management Plan (EMP). Key integrations include:

- Implementation of effective dust suppression (water sprinkling) and noise control measures during construction.
- Design of proper ventilation and emission control systems for production areas.
- Commitment to recycling of rubber scrap and responsible solid waste management.
- Operation and maintenance of the installed wastewater treatment system (two septic tanks + dosing pump + mixing tank) to ensure PEQS compliance.
- Priority local employment and mandatory HSE training for all workers.
- Establishment of a formal **Grievance Redress Mechanism (GRM)** with clear contact details of the proponent (Mian Shehzad Ahmed) and timely resolution procedures.
- Regular environmental monitoring and periodic reporting to Punjab EPA.

6.8 Conclusion and Ongoing Engagement

The stakeholder consultations confirmed broad community and institutional support for the proposed M/S Anwar Rasheed Industry project, provided that the

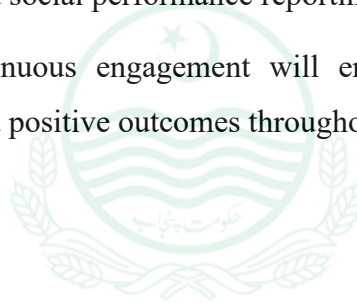
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recommended mitigation measures and environmental safeguards are effectively implemented. The feedback has significantly strengthened the environmental and social aspects of the project.

A comprehensive **Stakeholder Engagement Plan (SEP)** has been developed as part of this EIA. It includes provisions for:

- Ongoing communication during construction and operation.
- Quarterly community meetings during the construction phase.
- Periodic project updates to nearby residents.
- Effective grievance handling mechanism.
- Annual environmental and social performance reporting to Punjab EPA.

This structured and continuous engagement will ensure adaptive management, transparency, and sustained positive outcomes throughout the project lifecycle.



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
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**CHAPTER 7: POTENTIAL
ENVIRONMENTAL IMPACTS AND
MITIGATION MEASURES**



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CHAPTER 7: POTENTIAL ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

7.1 Introduction

This chapter presents a systematic identification, prediction, evaluation, and mitigation of potential environmental impacts associated with the construction and operational phases of **M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)** at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan.

The project involves a dedicated medium-scale rubber processing facility on **33 Kanal 14 Marla** (approximately 4.1 Acres) of currently vacant land. Key activities include raw material storage (rubber sheets, calcium powder, crumb rubber, reclaimed rubber), Banbury mixing, tube extrusion, valve fitting, air filling & waxing, steam vulcanization (cooking), tyre building (nylon cord with rubber sheet), inspection, and storage. The facility will produce 100,000–120,000 bike tubes and 90–100 hand-driven trolley tubes per month.

The impact assessment has been carried out in accordance with the **Punjab Environmental Protection Act (PEPA), 1997**, the **Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022**, Punjab Environmental Quality Standards (PEQS), stakeholder feedback (Chapter 6), baseline conditions (Chapter 5), and best practices from similar rubber products manufacturing units in Punjab. Both adverse and beneficial impacts have been evaluated. Because the unit is dedicated exclusively to tube and tyre manufacturing with low wastewater generation and an installed treatment system (two septic tanks with dosing pump and mixing tank as per architectural drawings), the overall environmental footprint is focused and manageable.

7.2 Identification of Potential Environmental Impacts

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Potential impacts were identified using a combination of:

- Desk review of project design and architectural drawings (Ground Floor Plan, Site Plan, utility details).
- Site-specific observations along Chicho Ki Malian Road industrial corridor.
- Stakeholder consultations (Chapter 6).
- Standardized EIA checklists and matrices.
- Professional judgment based on experience with rubber compounding and vulcanization processes.

Main project activities that may generate impacts include:

- Construction phase: Site clearing, excavation, heavy foundations, civil works, and machinery installation.
- Operational phase: Banbury mixing, extrusion, vulcanization, tyre building, and material handling.
- Cross-cutting issues: Air emissions, noise, solid waste (rubber scrap), low-volume wastewater, occupational health & safety, traffic, and resource consumption.

No significant impacts are anticipated on cultural heritage, protected ecological areas, or sensitive receptors.

7.3 Scoping Criteria for Impact Assessment

Impacts were scoped using the following criteria:

- Alignment with baseline environmental conditions (Chapter 5).
- Compliance with PEQS for air, noise, effluents, and emissions.
- Stakeholder concerns (dust, noise, rubber scrap management, wastewater treatment, local employment).
- Spatial extent (site-specific, local, or regional).

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Temporal extent (short-term during construction or long-term during operation).
- Reversibility and intensity (low, moderate, high).
- Nature (adverse, beneficial, or neutral).

7.4 Methodology for Impact Assessment

Impacts were evaluated using a **Leopold Matrix** and **significance rating** approach that considers magnitude (severity) and likelihood (probability). Significance levels are defined as:

TABLE 7.1: IMPACT SIGNIFICANCE CRITERIA

Significance Level	Severity / Magnitude	Likelihood / Duration	Overall Rating
High	Significant or irreversible harm	High / Continuous	Major Adverse
Moderate	Measurable but manageable	Moderate / Periodic	Moderate Adverse
Low	Minor or negligible	Low / Short-term	Minor Adverse
Insignificant	Negligible	Rare	Negligible
Beneficial	Positive contribution (e.g., jobs)	—	Positive

7.5 Potential Impacts Associated with Project Location

The selected site offers several environmental advantages:

- Located in an established industrial corridor with compatible surrounding land use (existing rubber, brick, and carpet industries).
- Flat vacant land with stable alluvial geology suitable for heavy machinery foundations.
- Good road access via Main Road Chicho Ki Malian without major new infrastructure.
- No dense residential settlements, protected forests, wetlands, or archaeological sites in the immediate vicinity.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Sufficient space for production halls, utilities, parking (39 cars + 78 bikes), green belts, and waste management as per approved architectural drawings.

Overall, location-specific adverse impacts are **low** when standard mitigation is applied.

7.6 Potential Impacts and Mitigation Measures During Construction Phase

The construction phase is expected to last **12–18 months**. Impacts during this phase are **temporary, localized, and reversible**.

7.6.1 Dust Emissions and Air Quality Impact: Generation of PM10 and PM2.5 from site clearing, excavation, material handling, and vehicle movement. **Significance:** Moderate (short-term).

Mitigation Measures:

- Regular water sprinkling (3–4 times daily) on unpaved surfaces and stockpiles.
- Covering of material stockpiles and use of tarpaulin on trucks.
- Speed limits (≤ 20 km/h) on site roads.
- Provision of dust masks to workers.
- Ambient air quality monitoring during peak construction activities.

7.6.2 Noise and Vibration Impact: Elevated noise and vibration from excavators, compactors, piling (if required), and heavy machinery. **Significance:** Moderate (temporary).

Mitigation Measures:

- Restrict noisy activities to daytime hours (7 AM – 7 PM).
- Use of silenced or low-noise equipment where possible.
- Installation of temporary noise barriers around high-noise zones.
- Provision of ear plugs/muffs to workers.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Regular maintenance of construction machinery.

7.6.3 Solid Waste Generation Impact: Construction debris, excavated soil, packaging waste, and minor scrap. **Significance:** Low.

Mitigation Measures:

- Segregation of waste at source (inert, recyclable, hazardous).
- Reuse of excavated soil for backfilling and site grading.
- Disposal of remaining debris at approved municipal/industrial waste sites.
- No open burning permitted.

7.6.4 Wastewater and Runoff Impact: Minor site runoff, equipment washing, and domestic sewage from labor camp. **Significance:** Low.

Mitigation Measures:

- Construction of temporary sedimentation traps and bunds.
- Use of portable septic tanks or approved sanitation facilities.
- Reuse of treated water for dust suppression wherever feasible.

7.6.5 Soil Contamination and Erosion Impact: Minor risk from fuel/oil spills or exposed soil during earthworks. **Significance:** Low.

Mitigation Measures:

- Proper storage of fuels and lubricants with secondary containment.
- Spill response kits and trained personnel on site.
- Immediate stabilization and re-vegetation of exposed areas.

7.6.6 Ecological Impacts Impact: Minimal disturbance to sparse grass and scrub on vacant land. **Significance:** Insignificant.

Mitigation Measures:

- Limit clearing to the minimum required footprint.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Develop green belts with native species along boundaries as per architectural drawings after construction.

7.6.7 Occupational Health and Safety Impact: Risk of accidents, dust inhalation, heat stress, and machinery-related injuries. **Significance:** Moderate.

Mitigation Measures:

- Mandatory PPE (helmets, safety shoes, dust masks, gloves, ear protection).
- Daily toolbox talks and safety briefings.
- First-aid facilities and emergency response plan.
- Comprehensive insurance coverage for all workers.

7.6.8 Socio-economic Impacts Impact: Temporary traffic increase and positive employment generation (50–150 workers during peak). **Significance:** Overall Beneficial.

Mitigation Measures:

- Preparation and implementation of a Traffic Management Plan.
- Priority hiring of local labor from Sheikhpura and surrounding areas.

7.7 Potential Impacts and Mitigation Measures During Operational Phase

Operational impacts are long-term but can be effectively controlled through engineering controls and management practices.

7.7.1 Air Emissions and Process Fumes Impact: Minor dust and rubber fumes from Banbury mixing, extrusion, and vulcanization. **Significance:** Moderate (long-term, controllable).

Mitigation Measures:

- Installation of proper ventilation and local exhaust systems in mixing and vulcanization areas.
- Regular maintenance of equipment.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Ambient and workplace air quality monitoring.

7.7.2 Noise Pollution Impact: Noise from Banbury mixer, extruders, vulcanizers, and material handling (80–95 dB inside facility). **Significance:** Moderate.

Mitigation Measures:

- Acoustic enclosures or isolation of noisy machinery.
- Use of hearing protection by workers in high-noise zones.
- Regular lubrication and preventive maintenance.
- Boundary noise monitoring to ensure compliance with PEQS (≤ 75 dB(A) daytime in industrial areas).

7.7.3 Solid Waste Generation Impact: Rubber scrap, rejected products, and packaging waste (rubber scrap is largely recyclable). **Significance:** Low to Moderate.

Mitigation Measures:

- Segregation at source.
- Recycling/sale of rubber scrap to authorized recyclers.
- Proper storage and disposal of non-recyclable waste through licensed contractors.

7.7.4 Wastewater Generation Impact: Low-volume wastewater from equipment cleaning and domestic use. **Significance:** Low.

Mitigation Measures:

- Operation of the installed **two-septic-tank system with dosing pump and mixing tank** (as per architectural drawings).
- Efficient water use and recycling where possible.
- Regular monitoring to ensure compliance with PEQS.

7.7.5 Occupational Health and Safety Impact: Exposure to noise, dust/fumes, and mechanical hazards during mixing, extrusion, and vulcanization. **Significance:**

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Moderate.

Mitigation Measures:

- Comprehensive HSE training programs.
- Mandatory PPE and proper ventilation in work areas.
- Periodic medical check-ups and health surveillance.
- Emergency response plan and first-aid facilities.

7.7.6 Socio-economic Impacts Impact: Creation of 80–200 permanent jobs, skill development in rubber technology, and contribution to the local automotive and trolley components industry. **Significance:** Strongly Beneficial.

Mitigation Measures:

- Priority for local hiring.
- On-the-job training and skill development programs.
- Implementation of Corporate Social Responsibility (CSR) initiatives.

7.8 Summary of Impacts and Mitigation Measures

TABLE 7.2: SUMMARY OF KEY ENVIRONMENTAL IMPACTS & MITIGATION MEASURES

Potential Impact	Phase	Significance	Key Mitigation Measures
Dust & Air Emissions	Construction + Operation	Moderate	Water sprinkling, ventilation, dust extraction, covered handling
Noise & Vibration	Both	Moderate	Daytime restriction, acoustic enclosures, ear protection, maintenance
Solid Waste (Rubber Scrap)	Both	Low-Moderate	Segregation at source, recycling of scrap, authorized disposal

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Wastewater	Both	Low	Operation of two-septic-tank system with dosing & mixing tank; PEQS compliance
Soil Contamination / Erosion	Construction	Low	Spill kits, proper storage, re-vegetation
Occupational Health & Safety	Both	Moderate	PPE, training, ventilation, medical check-ups, emergency plan
Socio-economic (Employment)	Both	Beneficial	Local hiring priority, skill training, CSR activities
Ecological Disturbance	Construction	Insignificant	Minimum clearing, development of green belt

7.9 Environmental Enhancement Measures

- Development of green belts with native trees and shrubs along site boundaries for dust and noise buffering.
- Promotion of energy-efficient equipment and LED lighting.
- Rainwater harvesting for non-process uses.
- Full recycling of rubber scrap.
- Regular fire safety drills and community awareness programs.

7.10 Monitoring and Compliance

- Appointment of a dedicated Health, Safety & Environment (HSE) Officer.
- Allocation of adequate budget for environmental management (2–3% of project cost).
- Regular internal and third-party monitoring of air quality, noise, wastewater, and solid waste.
- Submission of periodic compliance reports to Punjab EPA as per approval conditions.
- Corrective action plans for any non-compliance.

With the effective implementation of the proposed mitigation measures and the Environmental Management Plan (EMP), all potential adverse impacts will be reduced to acceptable levels. The project will operate in an environmentally sustainable

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

manner while delivering significant socio-economic benefits to the Sheikhupura region.



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**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
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**CHAPTER 8: ENVIRONMENTAL
MANAGEMENT & MONITORING PLAN
(EMMP)**



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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 8: ENVIRONMENTAL MANAGEMENT & MONITORING PLAN (EMMP)

8.1 Introduction

This chapter presents the comprehensive **Environmental Management and Monitoring Plan (EMMP)** for the **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)** located at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan. The proponent is Mian Shehzad Ahmed (CNIC: 35201-3680476-9).

The EMMP provides a practical framework for the effective implementation of all mitigation measures identified in Chapter 7. It covers both the **construction phase** (estimated 12–18 months) and the **operational phase** to ensure the project maintains a minimal environmental footprint and achieves full compliance with the **Punjab Environmental Quality Standards (PEQS)**, the **Punjab Environmental Protection Act (PEPA), 1997** (as amended), and the **Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022**.

The facility is a dedicated rubber tube and tyre manufacturing unit with a monthly production capacity of 100,000–120,000 bike tubes and 90–100 hand-driven trolley tubes. Key activities include raw material preparation (rubber sheets, calcium powder, crumb rubber, reclaimed rubber), Banbury mixing, tube extrusion, valve fitting, air filling & waxing, steam vulcanization, tyre building, inspection, and storage. The project features low wastewater generation managed through an installed treatment system (two septic tanks with dosing pump and mixing tank as shown in the approved architectural drawings by Chohan Associates).

The EMMP incorporates Punjab EPA guidelines for industrial projects, a condition-wise compliance approach, clear performance indicators, corrective action protocols, and adaptive management based on monitoring results and stakeholder feedback.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

8.2 Objectives of the EMMP

The primary objectives of the EMMP are to:

- i. Ensure systematic implementation of all mitigation measures to prevent, minimize, or offset adverse environmental impacts during construction (e.g., dust, noise, vibration, temporary waste) and operation (e.g., minor fumes from Banbury mixing and vulcanization, rubber scrap management, noise from machinery, and low-volume wastewater).
- ii. Establish a robust, verifiable, and cost-effective monitoring framework to track environmental performance against PEQS limits, project commitments, and stakeholder expectations, enabling early detection and timely corrective actions.
- iii. Define clear institutional responsibilities, training requirements, reporting mechanisms, and resource allocation for effective environmental management.
- iv. Promote resource efficiency (water and energy conservation), waste minimization (maximum recycling of rubber scrap), and occupational health & safety.
- v. Facilitate transparent reporting to Punjab EPA and support long-term sustainable operation of the facility.
- vi. Enable adaptive management by regularly reviewing monitoring data, audit findings, and community feedback to continuously improve environmental performance.

8.3 Components of the EMMP

The EMMP consists of the following interconnected components:

- i. **Environmental Management Plan (EMP)** — Detailed mitigation actions, Standard Operating Procedures (SOPs), responsibilities, and timelines.
- ii. **Environmental Monitoring Plan** — Parameters, locations, frequency, methods, and responsible parties.
- iii. **Institutional Arrangements and Capacity Building** — Organizational structure, roles, and training programs.
- iv. **Grievance Redress**

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Mechanism (GRM) — Structured process for handling complaints. v. **Communication, Reporting, and Documentation** — Protocols for record-keeping and reporting. vi. **Budget and Resources** — Cost estimates and funding sources. vii. **Auditing and Adaptive Management** — Procedures for periodic review and improvement.

8.4 Institutional Arrangements and Responsibilities

A clear institutional framework will be established to ensure effective implementation of the EMMP.

TABLE 8.1: ROLES AND RESPONSIBILITIES

Entity / Role	Key Responsibilities
Project Proponent (Mian Shehzad Ahmed)	Overall leadership and accountability; ensure budget allocation; appoint HSE Officer; submit compliance reports to Punjab EPA; respond to grievances.
HSE / Environmental Officer	Day-to-day implementation and supervision of EMMP; coordinate monitoring; organize training; maintain records; prepare monthly/quarterly reports; liaise with Punjab EPA and laboratories.
Construction Contractor	Execute site-specific mitigation measures (dust suppression, noise control, waste segregation, safety); report incidents immediately; ensure worker compliance during construction.
Third-Party Accredited	Conduct sampling and analysis of air, noise, wastewater, and other parameters; issue certified

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Laboratory	reports.
Punjab EPA (Sheikhupura / Lahore Office)	Review reports; conduct site inspections and audits; enforce approval conditions.
Local Community / Stakeholders	Participate in GRM; provide feedback during consultations.

The HSE Officer will be appointed before the start of construction and will remain full-time during operation.

8.5 Environmental Management Plan (EMP)

The EMP translates the mitigation measures from Chapter 7 into actionable, trackable tasks with clear responsibilities and performance indicators. Standard Operating Procedures (SOPs) will be developed for critical activities such as dust control, Banbury mixer operation, vulcanization process, rubber scrap handling, wastewater treatment system maintenance, and emergency response.

TABLE 8.2: MITIGATION MANAGEMENT MATRIX (SUMMARY)

Impact Area	Key Mitigation Measures	Phase	Responsibility	Performance Indicator / Target	Frequency
Dust & Air Emissions	Water sprinkling, ventilation systems, dust extraction in mixing & vulcanization areas, covered handling	Construction + Operation	HSE Officer / Contractor	No visible dust beyond boundary; PM10/PM2.5 within PEQS	Daily (construction); Quarterly (operation)
Noise & Vibration	Acoustic enclosures, restricted hours, ear protection, equipment maintenance	Both	HSE Officer	Noise ≤ 75 dB(A) at perimeter; worker exposure logs	Bimonthly

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Solid Waste (Rubber Scrap)	Segregation at source, recycling of rubber scrap, proper storage	Both	HSE Officer	>90% recycling rate; zero illegal dumping	Monthly audits
Wastewater Management	Operation of two-septic-tank system with dosing pump & mixing tank; efficient water use	Both	HSE Officer / Operator	Full compliance with PEQS; regular system maintenance	Quarterly lab tests
Soil Contamination / Erosion	Spill containment, proper fuel storage, re-vegetation	Construction	Contractor / HSE Officer	No spills; immediate cleanup	As required
Occupational Health & Safety	Mandatory PPE, training, ventilation, machinery guarding, emergency plans	Both	HSE Officer	Zero lost-time incidents; 95%+ training attendance	Monthly inspections
Traffic & Community Disturbance	Traffic management plan, local hiring priority	Construction	Contractor / HSE Officer	No major complaints; local employment target	As required

8.6 Environmental Monitoring Plan

Monitoring will verify the effectiveness of mitigation measures and ensure compliance with PEQS.

TABLE 8.3: ENVIRONMENTAL MONITORING PLAN (SUMMARY)

Environmental Component	Parameters to be Monitored	Applicable Standards (PEQS)	Monitoring Frequency	Location(s)	Responsibility	Method / Equipment
Ambient Air Quality	PM10, PM2.5, dust/particulates	PEQS Ambient Air Standards	Bimonthly (construction); Quarterly (operation)	Site boundaries & downwind	Third-party lab / HSE Officer	High-volume samplers

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Noise Levels	Equivalent continuous sound level dB(A)	≤75 dB(A) industrial daytime	Bimonthly (construction); Quarterly (operation)	Site perimeter & nearby areas	HSE Officer / Lab	Sound level meter
Solid Waste Management	Quantity, segregation, recycling rate	Zero illegal dumping	Monthly	Waste storage area	HSE Officer	Waste logs & visual audits
Wastewater (Treatment System)	pH, TSS, BOD, COD, TDS (if discharged)	PEQS Effluent Standards	Quarterly	Septic tank outlet	Third-party accredited lab	Grab / composite sampling
Occupational Health & Safety	Incident records, PPE compliance, health checks	Internal + PEPA standards	Monthly	Work areas	HSE Officer	Checklists & medical logs
Water Consumption	Daily/weekly usage & recycling rate	Internal efficiency targets	Monthly	Metered sources	HSE Officer / Operator	Flow meters & logs

All laboratory analyses will be conducted by Punjab EPA-approved accredited laboratories. Baseline data from Chapter 5 will be used for comparison.

8.7 Supervision, Auditing and Corrective Actions

- The HSE Officer will conduct daily/weekly supervision during construction and regular inspections during operation.
- Any non-compliance will trigger immediate corrective actions (within 7–14 days depending on severity).
- Annual third-party environmental audits will be conducted.
- Punjab EPA will be notified immediately of any major incident or non-compliance.
- Adaptive management will be applied based on monitoring results and audit findings.

8.8 Communication, Reporting and Documentation

All environmental records (monitoring data, lab reports, training records, incident logs, grievance registers, and photographs) will be maintained in both digital and physical formats for at least 5 years.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Internal monthly reviews will be held by the HSE Officer.
- Quarterly and annual compliance reports will be submitted to Punjab EPA.
- Relevant information will be shared with stakeholders during periodic consultations.

8.9 Grievance Redress Mechanism (GRM)

A simple, accessible, and transparent GRM will be established:

- **Level 1:** Site-level resolution by HSE Officer (within 7 days).
- **Level 2:** Escalation to Project Proponent (Mian Shehzad Ahmed) (within 15 days).
- **Level 3:** Referral to Punjab EPA if still unresolved (within 30 days).

The GRM will be publicized through site signage, community meetings, and contact details. Anonymous complaints will be accepted, and resolution rates will be tracked (target >90% within defined timelines).

8.10 Environmental Training and Capacity Building

Training programs will be conducted to ensure all personnel understand their roles in EMMP implementation.

TABLE 8.4: TRAINING SCHEDULE (SUMMARY)

Target Personnel	Key Topics	Frequency	Trainer
Management & Proponent Staff	EMMP overview, compliance, reporting	Induction + Quarterly	External expert / HSE Officer
All Workers & Operators	PPE usage, safety, waste segregation, emergency response	Induction + Bimonthly	HSE Officer
Machine Operators (Mixing, Extrusion, Vulcanization)	Process safety, fume/dust control, machinery handling	Monthly / On-the-job	HSE Officer / External trainer

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

Contractors	Construction safety, dust & noise control	At mobilization + Monthly	HSE Officer
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Attendance and effectiveness will be evaluated through quizzes and practical drills.

8.11 Budget and Resources for EMMP Implementation

An adequate budget will be allocated for successful implementation of the EMMP (approximately 2–3% of the project cost).

Indicative Annual Budget (Operational Phase):

- Environmental monitoring & laboratory analysis: PKR 800,000 – 1,200,000
- Training & capacity building: PKR 300,000 – 500,000
- PPE, safety equipment & maintenance: PKR 400,000 – 600,000
- Green belt maintenance & waste handling: PKR 200,000 – 300,000
- GRM & community engagement: PKR 100,000
- Contingency (10–15%): As required

The proponent will ensure timely release of funds. The budget will be reviewed annually and adjusted based on actual needs and audit recommendations.

8.12 Conclusion

This EMMP provides a comprehensive, practical, and enforceable framework for managing environmental aspects throughout the project lifecycle. Full and effective implementation of this plan will be a mandatory condition of the Punjab EPA Environmental Approval / NOC. It will ensure that M/S Anwer Rashid Industries PVT LTD operates in an environmentally sustainable manner while delivering significant socio- economic benefits to the Sheikhpura region.

**ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES
PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)**

**CHAPTER 9: CONCLUSION AND
RECOMMENDATIONS**

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ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

CHAPTER 9: CONCLUSION AND RECOMMENDATIONS

9.1 Conclusion

The Environmental Impact Assessment (EIA) study for the proposed **Establishment of M/S Anwer Rashid Industries PVT LTD (Tubes and Tyres Manufacturing Unit for Hand-Driven Trolley and Bike Tubes)** at Chicho Ki Malian Road, Mouza Sahu Kee Maliyan, Tehsil & District Sheikhpura, Punjab, Pakistan has been carried out in accordance with the requirements of the **Punjab Environmental Protection Act (PEPA), 1997** (as amended), the **Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022**, and relevant guidelines issued by the Punjab Environmental Protection Agency (EPA).

The project, promoted by **Mian Shehzad Ahmed** (CNIC: 35201-3680476-9), involves the construction and operation of a dedicated medium-scale industrial unit on **33 Kanal 14 Marla** (approximately 4.1 Acres) of currently vacant land. The facility will manufacture **100,000 – 120,000 bike tubes** and **90 – 100 hand-driven trolley tubes** per month using raw materials such as rubber sheets, calcium powder, crumb rubber, and reclaimed rubber. The manufacturing process includes Banbury mixing, tube extrusion, valve fitting, air filling & waxing, steam vulcanization, tyre building, inspection, and storage.

The site is located in an established industrial corridor along Chicho Ki Malian Road, surrounded by similar industrial units. Baseline studies (Chapter 5) indicate that the area has stable alluvial geology, semi-arid climate, low on-site biodiversity, and no environmentally sensitive features such as protected forests, wetlands, or archaeological sites in the immediate vicinity. The approved architectural drawings prepared by Chohan Associates show a well-planned layout with dedicated production halls, utilities, parking facilities, and a built-in wastewater treatment system consisting of **two septic tanks with dosing pump and mixing tank**.

The impact assessment (Chapter 7) reveals that the project will generate **temporary**

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

and localized impacts during the construction phase (primarily dust, noise, vibration, and construction waste) and **minor, manageable impacts** during the operational phase (rubber scrap, low-volume wastewater, noise from machinery, and minor process fumes). No significant or irreversible adverse impacts on air quality, water resources, soil, ecology, or socio-economic conditions are anticipated. Most impacts are short-term or controllable through standard engineering and management measures.

Stakeholder consultations (Chapter 6) confirmed broad community and institutional support for the project, particularly due to its potential for employment generation (80–200 jobs during operation), skill development, and contribution to the local rubber and two-wheeler components industry. All reasonable concerns raised by stakeholders regarding dust, noise, waste management, and local hiring have been duly incorporated into the project design and the Environmental Management & Monitoring Plan (EMMP) presented in Chapter 8.

The EMMP provides a robust framework for the implementation of mitigation measures, regular monitoring, institutional responsibilities, training, grievance redress, and adaptive management. With the full and effective implementation of the proposed mitigation measures, monitoring plan, and EMMP, the project will comply with all relevant provisions of PEPA 1997 and PEQS.

In conclusion, the proposed M/S Anwer Rashid Industries PVT LTD project is **environmentally viable and sustainable**. It will contribute positively to industrial development, employment generation, and the local economy of Sheikhpura while maintaining a minimal environmental footprint.

9.2 Recommendations

Based on the findings of this EIA study, the following recommendations are made for successful implementation of the project:

1. **Environmental Approval** The proponent should submit this EIA report to the Punjab Environmental Protection Agency (EPA) and obtain the **Construction Phase**

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

NOC / Environmental Approval prior to commencement of any construction activities.

2. **Implementation of EMMP** The detailed Environmental Management & Monitoring Plan (Chapter 8) must be fully implemented from the start of construction through the operational phase. A dedicated **HSE / Environmental Officer** should be appointed before mobilization.

3. **Construction Phase Management**

- Prepare and implement a detailed Construction Environmental Management Plan (CEMP) prior to starting civil works.
- Strictly follow dust suppression, noise control, waste segregation, and occupational safety measures during site preparation and machinery installation.
- Ensure the Traffic Management Plan is enforced to minimize disruption on Chicho Ki Malian Road.

4. **Operational Phase Controls**

- Ensure the installed **wastewater treatment system** (two septic tanks with dosing pump and mixing tank) is properly operated and maintained to achieve full compliance with PEQS.
- Install and regularly maintain ventilation, dust extraction, and emission control systems in Banbury mixing and vulcanization areas.
- Achieve at least 90% recycling rate for rubber scrap through authorized recyclers.

5. **Monitoring and Reporting**

- Conduct regular environmental monitoring (air quality, noise, wastewater, and solid waste) as per the frequencies outlined in the EMMP.
- Submit quarterly and annual compliance reports to Punjab EPA.

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

- Engage third-party accredited laboratories for all sampling and analysis.

6. Capacity Building and Training

- Provide comprehensive induction and refresher training to all workers and staff on HSE procedures, emergency response, and environmental responsibilities.
- Prioritize local hiring from Sheikhpura and surrounding areas.

7. Grievance Redress Mechanism (GRM)

- Establish and publicize the GRM with clear contact details of the proponent and HSE Officer.
- Ensure timely resolution of all grievances and maintain proper records.

8. Environmental Enhancement

- Develop and maintain green belts with native species along the site boundaries as shown in the architectural drawings.
- Consider additional Corporate Social Responsibility (CSR) initiatives such as safety awareness programs, tree plantation drives, or support for local education/health facilities.

9. Documentation and Compliance

- Maintain all environmental records (monitoring data, training logs, grievance registers, and lab reports) for a minimum of five years.
- Conduct annual third-party environmental audits and implement corrective actions promptly.

9.3 Overall Recommendation

The EIA study concludes that the proposed **M/S Anwer Rashid Industries PVT LTD** project is **environmentally sound and acceptable**, subject to the strict implementation of the mitigation measures and the Environmental Management & Monitoring Plan outlined

ESTABLISHMENT OF M/S ANWER RASHID INDUSTRIES PVT LTD (TUBES AND TYRES MANUFACTURING UNIT)

in this report.

It is recommended that the Punjab Environmental Protection Agency grant the **Construction Phase NOC** to the project. With proper execution of the EMMP, the project will not only meet all regulatory requirements but will also set a positive example of sustainable industrial development in the Sheikhupura region.

The proponent is committed to responsible environmental stewardship and will ensure continuous compliance with all conditions of the environmental approval.



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