

ENVIRONMENTAL IMPACT ASSESSMENT

2025

Service Industries Limited

Extension For the Storage of Petroleum Products

Prepared For:

M/s Service Industries Limited

Prepared by :



PAK GREEN

ENVIRO-ENGINEERING (PVT.) LTD.

TABLE OF CONTENTS

LIST OF ANNEXURES	Error! Bookmark not defined.
LIST OF ABBREVIATIONS	12
Project Brief Summary	14
EXECUTIVE SUMMARY	16
1. Title of Project:	16
2. Location	16
3. Land Co-ordinates:	16
4. Project Proponent	17
5. Environmental Consultant	17
6. Brief outline of the proposal	18
7. Environmental Impacts & Mitigation Measures	18
8. Summary of Environmental Impacts & Mitigation Measures:	18
9. Recommendations	19
10. Environmental Monitoring Program	20
11. Conclusion	20
12. Screening of project	21
CHAPTER: 01 - INTRODUCTION	22
1.1 - Purpose of the report	22
1.2 - Scope of the study	22
1.3 - Identification of project	22
1.4 - Project Proponent	23
1.5 - Details of Consultant	23
1.6 - Nature, Size and Location of the Proposed Project	24
1.7 - Location	24

1.8 - Objective of the Report.....	25
1.9 - Extent of the Study	26
1.10 - Methodology.....	26
1.11 - Screening of Potential Environmental Impacts and Mitigation Measures	26
1.11.1 Construction Phase Impacts and Mitigation Measures	27
1.11.2 Operation Phase Impacts and Mitigation Measures	28
1.11.3 Screening Conclusion.....	29
1.12 Scoping:	30
1.12.1 Spatial Boundaries of the Assessment	30
1.12.2 Temporal Boundaries of the Assessment	30
1.12.3 Key Issues and Concerns Raised During Consultations	31
1.12.4 Significant Impacts to be Studied.....	31
1.12.5 Screening and Prioritization of Impacts	32
1.13 - Preparation of environmental monitoring program and institutional requirement....	32
CHAPTER: 02 - DESCRIPTION OF THE PROJECT	33
2.1 - Type and Category of the Project:	33
2.2 - Objectives of the Project.....	33
2.3 - Project Benefit	33
2.4 - Alternative Considerations and Reasons for their Rejection:.....	33
2.4.1 - Activity Alternative:	34
2.4.2 - Location Alternatives:.....	34
2.4.3 - Selected Site.....	34
2.4.4 - Reason for selection of project site:.....	34
2.5 - Location	34
2.6 - Existing Land Use	35
2.7 - Road Access	36
2.8 - Vegetation features of the project.....	36

2.9 - Cost and magnitude of the operation	36
2.10 - Schedule of Implementation	36
2.11 - Project Description	36
2.11.1 Description of Stored Chemicals	37
2.11.2 Nature and Degree of Hazard	37
2.11.3 Health & Safety and Mitigation Strategy.....	38
2.11.4 Environmental and Community Considerations	38
2.12 - Salient Features of the Project	39
2.13 - Waste Products of Project Process	39
2.13.1 - Water Requirement	39
2.13.2 - Waste water treatment:	39
2.14 - Atmospheric Emissions:	40
2.15 - Noise	40
2.16 - Solid waste:.....	40
2.17 - Sludge:	40
2.18 - Plantation	40
2.19 - Fire Protection System.....	41
2.20 - Emergency Exits:.....	41
2.21 - Security:.....	41
2.22 - Power sources and transmission:	41
2.24.1 - Available Facilities	41
2.25- Personal protective equipment:	41
2.26- Restoration / Rehabilitation Plan.....	42
2.27 Rainwater Harvesting System.....	42
2.27.1 Purpose and Benefits of Rainwater Harvesting.....	42
2.27.2 System Design and Components.....	43
2.27.3 Storage Capacity and Water Utilization Plan.....	43

2.27.4 Maintenance and Monitoring Protocol.....	44
2.27.5 Environmental Compliance and Long-Term Vision	44
CHAPTER: 03 - DESCRIPTION OF ENVIRONMENT	45
3.1 - Physical Environment/ Resources	45
3.1.1 - Topography:	45
3.1.2 - Topography of the project area:	45
3.1.3 - Soil:	45
3.1.4 - Climate:	45
3.1.5 - Ambient Air Quality:	46
3.1.6- Noise Level Monitoring:	46
3.1.7 - Surface water:	46
3.1.8 - Ground water:	47
3.1.8.1 - Discussion of Results	47
3.2 – Biological Environment:	47
3.2.1 Fisheries	47
3.2.2 Biodiversity	47
3.2.3 Flora	47
3.2.4 Fauna	47
3.2.5 Rare or Endangered Species.....	48
3.3 – Socio Economic Environment	48
3.3.1 Demographics.....	48
3.3.2 Education.....	48
3.3.3 Culture	48
3.3.4 Recreational Resources and Development	48
3.3.5 Aesthetic Values.....	48
3.3.6 Archaeological and Historical Treasures	48
3.3.7 Land Use	48

3.3.8 Transportation and Accessibility	49
3.4- Natural Hazards & Site Suitability	49
3.4.1 Seismic Activity and Natural Hazards	49
3.4.2 Suitability of Site.....	49
CHAPTER: 04 - SCREENING OF POTENTIAL ENVIRONMENTAL IMPACTS & THEIR MITIGATION MEASURES	51
4.1 - Rapid Environmental Assessment Procedure	51
4.2 - Screening and Categorization	51
4.2.1 - Screening.....	51
4.2.2 - Categorization	51
4.3 - Consultations with Public and Stakeholders	51
4.3.1 - Consultations.....	51
4.3.2 - Concerns of Stakeholders	51
4.4- Environmental Issues.....	52
4.4.1- General	52
4.4.2- Environmental impacts due to the project location.....	52
Attribute	53
Description	53
Impact Significance.....	53
Very Low or May Be Positive.....	53
Nature of Impact.....	53
Indirect	53
Duration.....	53
Short-term.....	53
Timing	53
Operation Phase.....	53
Reversibility	53

Not Applicable (N/A).....	53
Likelihood	53
Low (Unlikely)	53
Consequences	53
Very Low or May Be Positive.....	53
4.4.3 - Environmental Impacts due to the project design.....	53
Attribute	54
Description	54
Impact Significance.....	54
Moderate to High or May Be Negative	54
Nature of Impact.....	54
Direct.....	54
Duration.....	54
Long-term	54
Timing	54
Construction Phase & Operation Phase	54
Reversibility	54
Not Applicable (N/A).....	54
Likelihood	54
Moderate to High	54
Consequences	54
Moderate to High or May Be Negative.....	54
4.4.4 - Environmental Impacts due to Construction Stage.....	55
Attribute	56
Description.....	56
Nature of Impact	56
Direct.....	56

Duration	56
Long-term	56
Timing.....	56
Construction Phase & Operation Phase	56
Reversibility	56
Not Applicable (N/A)	56
Likelihood	56
Moderate to High	56
Consequences.....	56
Moderate to High or May Be Negative.....	56
4.4.5- Environmental Impacts during Operation Stage.....	56
Attribute	57
Description	57
Nature of Impact.....	57
Direct	57
Duration.....	57
Long-term	57
Timing	57
Operational Phase.....	57
Reversibility	57
Not Applicable (N/A).....	57
Likelihood	57
Moderate to High	57
Consequences	57
Moderate to High or May Be Negative.....	57
4.5- General Measures	57
4.6- Residual Impact	58

4.6.1- Consequences:.....	58
4.7- Potential Environmental Enhancement Measures	58
4.8- Disturbance to other Site Users	59
4.9- Availability of Essential Services.....	59
4.9.1- Water Supply	59
4.9.2- Waste Water	59
4.9.3- Communication Infrastructure	60
4.10 - Availability of Construction Materials	60
4.11 - Skilled and Unskilled Labor	60
4.12 - Traffic Issues	60
4.13- Main Environmental Issues	60
4.14- Assessment of Potential Impacts	60
4.14.1- Assessment Criteria	60
4.14.2- Types of Negative Impacts	61
4.15- Impacts on Physical Environments.....	61
4.15.1- Groundwater Quality and Level.....	61
4.15.2- Land Utility	61
4.16- Impacts on Biological Environments	61
4.16.1- Flora	61
4.16.2- Fauna.....	62
4.17- Impacts on Socio-economic Environments	62
4.17.1- Security	62
4.17.2- Land Value.....	62
4.17.3- Resettlement Issues	62
4.17.4- Dislocation of Population	62
4.17.5- Loss of Property/Infrastructure	62
4.18- Mitigation Measures	62

4.18.1- General	62
4.18.2- Site Development Stage	63
4.19- Corporate Social Responsibility (CSR).....	63
4.20- Structural Stability	64
4.21- Undertaking	64
CHAPTER: 05 - ENVIRONMENTAL MANAGEMENT & MONITORING PROGRAM .	65
5.1- Purpose and Objectives of the EMP:.....	65
5.2 - Management Approach:	65
5.3 - Institutional Responsibilities/Capacity	65
5.4 - Training Schedules	65
5.5 - Training of building contractor.....	66
5.6- Responsibility of EMP	66
5.7- Environmental Technical Assistance and Training Plan.....	66
5.8- Equipment Maintenance Detail	72
5.9- Environmental Budget.....	72
5.9- Proposed Monitoring plan to assess the output of EMP.....	77
5.9.1- Aim of Monitoring.....	77
5.9.2- Objectives of Monitoring	77
5.9.3- Environmental Monitoring Cell (EMC).....	77
5.9.4- Training of Monitoring Staff	77
5.10- Monitoring of Quality.....	77
5.11- Monitoring Plan	77
5.12- Proposed EMP Reporting and Reviewing Procedures	78
CHAPTER: 06 - STAKEHOLDERS PARTICIPATION	79
6.1 - Objectives of Consultation	79
6.2- Methodology of consultation:.....	80
6.3- Stakeholder identification:.....	80

6.4- District Level:	81
6.5- Local level	81
6.6- Consultations:	81
6.7- Proponent.....	81
6.8- Responsible Authority	81
6.9- Other departments and agencies	81
6.10- Environmental Practitioners and Experts	82
6.11- Affected & Wider Community	82
6.11.1- Sample size	82
6.11.2- Statistical Analysis.....	82
6.11.3- Result and discussion	82
6.11.4- Discussion	83
6.11.5- Knowledge about environment	83
6.11.6- Discussion	83
6.11.7- Opinion regarding project being source of pollution	83
6.11.8- Discussion	83
6.11.9- Opinion regarding increase in job opportunities.....	84
6.11.10- Discussion	84
6.11.11- Type of impacts due to project.....	84
6.11.12- Discussion	84
6.11.13- Opinion regarding project	85
6.11.14- Discussion	85
CHAPTER: 07 - CONCLUSION AND RECOMMENDATIONS	86
7.1 - CONCLUSIONS	86
7.2 - Main environmental issues are as under:.....	87
7.3 - RECOMMENDATIONS.....	87

LIST OF ABBREVIATIONS

ABBREVIATION	FULL FORM
EIA	Environmental Impact Assessment
PEPA	Pakistan Environmental Protection Act
PEPA	Punjab Environmental Protection Act
PEQS	Punjab Environmental Quality Standards
ToRs	Term of References
WAPDA	Water And Power Development Authority
WASA	Water and Sanitation Authority
EMP	Environmental Management Plan
EMC	Environmental Monitoring Cell
NOC	No Objection Certificate
NCS	Punjab Conservation Strategy
LAA	Land Acquisition Act
P & D Department	Planning and Development Department
Pak-EPA	Pakistan Environmental Protection Agency
WHO	World Health Organization
LESCO	Lahore Electric Supply Company

SWM	Solid Waste Management
CSR	Corporate Social Responsibility
MSWs	Municipal Solid Wastes
TMA	Town Municipal Authority
dB (A)	Decibel
PPM	Part Per Million
µg/m³	Microgram Per Cubic Meter
MTM	Metric Tons Per Month
KVA	Kilo Volt Ampere
PPEs	Personal Protective Equipment
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
SS	Suspended Solids
COD	Chemical Oxygen Demand
BOD	Biological Oxygen Demand
HC	Hydrocarbons

Project Brief Summary

Section	Parameter	Details
1. Project Identification	Name of Project / M/S	M/S Service Industries Limited
	Project Location	GT. Road Gujrat
	Geographical Coordinates	• Latitude: 32°35'9.22" N • Longitude: 74° 3'19.48" E
2. Proponent Information	Proponent Name	Mr. Arif Saeed
	CNIC	35202-2835725-9
	Proponent Address	House No. 10, Muhalla Gulberg 5, Lahore
3. Project Overview	Total Project Cost	Rs. 50 million
	Project type	Proposed extension by constructing petroleum products/ raw chemical storage godown in an already existing unit.
	Process Description	The proposed extension involves the construction of petroleum products storage godown at Khewat No. 17, 20, 44, 99, 124, 130, 134, 139, 142, 144, 148, 156, 263, Khatooni No. 17, 20, 100, 105, 138, 144, 153, 156, 158, 162, 170, 276 at Mouza Adowal, Tehsil & District Gujrat. The estimated project cost is PKR 50 million, and the facility will include basic safety and storage infrastructure.
	Allied Facilities	Security Room, Firefighting & Safety System, admin block are already present in the unit.
4. Waste Management	Types of Waste	Solid waste, chemical waste, Plastic waste, Mechanical Waste

	Estimated Waste Generation	The storage godown is expected to generate approximately 10–15 kg/month of solid waste, 2–5 liters/month of oil residues, and 50–100 liters/month of Washwater from floor maintenance activities.
	Waste Handling Measures	Segregation, Recycle, Storage, Transport
	Final Disposal Plan	Solid Waste Agreement, contractor
6. Rainwater Harvesting	Harvesting Infrastructure	Pits, Storage Tanks, Recharge Wells
	Collection Source	Rooftop and ground rain water
	Implementation Status	Underground pits and storage tanks
7. Plantation & Green Development	Proposed Green Area	7-10 % of the total area of the service industries.
	Status for Operational Projects	Planned
8. CSR & Community Welfare	CSR Budget	Rs. 1.5 million
	Activities	• Health & Safety • Environment & Sustainability • Water, Sanitation & Hygiene (WASH)

EXECUTIVE SUMMARY

1. Title of Project:

The subject project is the proposed extension in Service industries limited by constructing raw chemical products storage godown, by M/s Service Industries Limited, located at GT. Road Gujrat. The total area of the plot is 359 Kanals (45 acres). The estimated cost of the proposed project is 50 million, and the projected storage capacity of petroleum products of Methyl Ethyl Ketone (MEK) and Toluene is 21701 LTRS and 1000 LTRS respectively.

The proposed project falls under Schedule II, Category G, Clause 3 (Hazardous Substance or Waste storage godown) of Review of IEE and EIA Regulations, 2022. TORs of the study under clause 5 (f) of policy and procedure for the filing, review and approval of environmental assessment are annexed.

2. Location

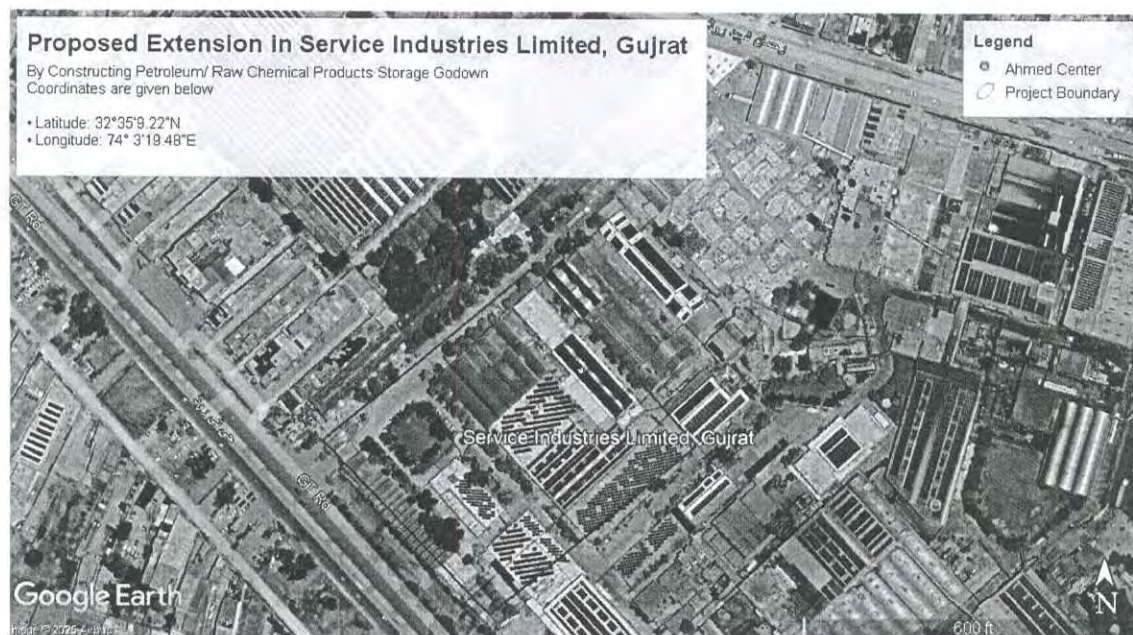
The proposed project is located at GT. Road Gujrat.

3. Land Co-ordinates:

The land co-ordinates of the project site are as follows:

- **Latitude:** 32°35'9.22" N
- **Longitude:** 74° 3'19.48" E

Direction	Description
North	Industrial Unit
South	Road
East	Industrial Unit
West	Industrial unit



Location of Project Site

4. Project Proponent

Attribute	Details
Company Name	M/s Service Industries limited
Proponent	Mr. Arif Saeed
CNIC	35202-2835725-9
Contact	0300-4665438
Location	GT. Road Gujrat
Business Type	Proposed extension by constructing petroleum products storage godown in an already existing unit

5. Environmental Consultant

Attribute	Details
Consultant	Pak Green Enviro Engineering Pvt. Ltd
Office Address	46-M, Gulberg III, Lahore
Contact	▪ 042-35441444 ▪ 0303-4442335

Scope of Services	Independent environmental consultancy for the preparation of EIA including Baseline Assessment, Stakeholder Consultations, Impact Analysis, Mitigation Planning, and formulation of the Environmental Management Plan (EMP).
Email	eia@pakgreen.pk

6. Brief outline of the proposal

The subject project is Proposed extension by constructing of products storage godown by M/s Service Industries Limited Located at GT. Road Gujrat. The total area of plot 359 Kanals (45 acres). The cost of the proposed project is around 50 million and capacity of petroleum products capacity of Methyl Ethyl Ketone (MEK) and Toluene will be 21701 LTRS and 1000 LTRS respectively.

According to section 12 of Punjab Environment Protection Act 1997(Amended 2012), project required environmental approval from EPA Punjab, Pakistan.

7. Environmental Impacts & Mitigation Measures

In order to identify all the activities associated with the project during construction and operation phase with potential to cause adverse environmental impacts and harm a thorough review has been conducted. Project will not have any major adverse impacts on the nearby community and on environment. Overall, the project will have positive impacts on the local population and country as a whole. Moreover, area for plantation is also reserved for air purification within the project vicinity.

8. Summary of Environmental Impacts & Mitigation Measures:

- Soil erosion and land disturbance during excavation and site preparation.
- Emissions of particulate matter, dust, and gaseous pollutants from construction machinery and vehicles.
- Generation of construction waste and domestic garbage from labor camps.
- Dust emissions during raw material loading/unloading and storage.
- Noise pollution during both construction and operational phases.
- Generation of wastewater from construction activities and possible chemical residues during operation.

- Potential emissions of Volatile Organic Compounds (VOCs) such as Toluene and Methyl Ethyl Ketone (MEK) during storage and handling.
- Occupational health and safety risks to workers handling hazardous materials.
- Risk of chemical spills or leakage, potentially contaminating soil and groundwater.
- Fire and explosion hazards due to storage of flammable substances.

9. Recommendations

Following measures will be adopted:

➤ **Soil Protection:**

Site leveling and drainage will be managed to prevent erosion. Restoration of vegetation will be ensured after construction.

➤ **Dust & Emissions Control:**

Water sprinkling will be done regularly to suppress dust.

Construction vehicles and machinery will be maintained to minimize exhaust emissions.

➤ **Solid Waste Management:**

Waste segregation will be practiced. Construction and domestic waste will be properly collected, stored, and disposed of via approved contractors.

➤ **Wastewater Management:**

Temporary septic tanks will be installed. Wastewater will either be reused for landscaping or safely discharged after treatment to meet PEQS.

➤ **Noise Control:**

Noise-generating activities will be limited to daytime hours where possible.

Machinery will be fitted with silencers.

➤ **Fire Safety & Chemical Handling:**

Adequate firefighting equipment (extinguishers, foam system) will be installed and maintained.

A detailed Emergency Response Plan (ERP) will be developed and implemented.

Only trained personnel will handle hazardous chemicals, follow SOPs and use PPE.

➤ **Health & Safety:**

All workers will be provided with Personal Protective Equipment (PPE) and trained in chemical safety protocols.

Safety signs will be posted at all high-risk areas.

Material Safety Data Sheets (MSDS) for Toluene and MEK will be available on-site.

➤ **Spill Prevention:**

All chemical storage areas will have impervious flooring and secondary containment.

Tarpaulin sheets and bund walls will be used to prevent leaching into soil.

➤ **Air Quality Maintenance:**

Advanced storage techniques and ventilation systems will be used to minimize VOC emissions. Ambient air quality will be monitored and maintained within PEQS limits.

➤ **Housekeeping & Ventilation:**

Proper housekeeping will be ensured in storage and handling areas.

Adequate open space will be maintained for natural light and air flow.

➤ **Monitoring:**

Regular monitoring of air, soil, noise, water, and VOC levels will be carried out monthly or quarterly as required.

Reports will be maintained and submitted to EPA when necessary.

10.Environmental Monitoring Program

To oversee the environmental performance of the project through its lifecycle enforcing the PEQS an Environmental Monitoring Program has been conducted which ensures effective surveillance of the environmental parameters at various stages of the project development and compliances with PEQS and legal obligations.

The management will develop environmental management plan to implement the mitigation measures further. The plan will include institutional measures such as occupational health & safety planning and environmental compliance monitoring for air quality, water and noise.

11.Conclusion

After a thorough initial examination of the intended activities and the environmental setting it has been concluded that, the proposed project shall not exert any major impact on the local

environment. The residual impacts of the activity are preventable provided all activities are carefully planned and the mitigation discussed herein are adequately considered during the planning and execution phase of the project. There is no public complaint against the subject project. So, it is requested for environmental approval for the said project.

12.Screening of project

According to the Environmental Protection Agency, Government of the Punjab, Lahore- “List of Projects Requiring an EIA”, and the project under consideration categories falls under Schedule II, Category G, Clause 3 (Hazardous Substance or Waste storage godown), because proponent is storing toluene and MEK (methyl ethyl ketone) and they are toxic and flammable. Therefore, the client is required to fulfill the legal requirements of the Section-12 of the Punjab Environment Protection Act 1997(Amended 2012).

CHAPTER: 01 - INTRODUCTION

This Section of the report provides an overview of the rational of the Project, objective of project, requirement of the project, purpose of the report and approach adopted to conduct the Environmental Impact Assessment (EIA).

1.1 - Purpose of the report

Environmental Impact Assessment (EIA) report is being submitted to the Environmental Protection Agency (EPA), Government of the Punjab, Lahore in compliance with the legal requirement for Pakistan Environment Protection Act-1997 (PEPA-1997), Section 12- for obtaining No Objection Certificate (NOC) before starting and construction activity at the project site. The other relevant regulations and guidelines considered while preparing this EIA report include:

- Policy and procedures for filing, review and approval of environmental assessments.
- Guidelines for the preparation and review of environmental reports.
- Guidelines for public participation.
- Guidelines for sensitive and critical areas.
- Detailed sectoral guidelines

Various aspects like environmental, social, physical and other aspects of the project both during construction and its regular occupancy are highlighted in this EIA report. Measures necessary to be adopted to mitigate any environmental impacts on any part of the environment around are also described. All the important information is also provided as described under the format used to help decision makers, EPA Punjab in the present case, before issuing the desired Environmental Approval.

1.2 - Scope of the study

The scope of study includes the preparation of Environmental Impact Assessment Report (EIA) of the proposed project for the compliance of section 12 of PEPA 1997 and to ensure the compliance with the PEQS.

1.3 - Identification of project

The project proponent intends to undertake a proposed extension by constructing of chemical material storage godown by M/s Service Industries Limited, located at GT. Road Gujrat.

The total area of plot 359 Kanals. The cost of the proposed project is around 50 million and the storage of petroleum products capacity of (MEK) and Toluene will be 21701 LTRS and 1000LTRS respectively, and for this purpose proponent hired the team of Environmental Consultants to conduct the EIA report.

1.4 - Project Proponent

Mr. Arif Saeed having CNIC: 35202-2835725-9, is the proponent of the subject project Proposed extension by constructing raw chemical products storage godown,

Attribute	Details
Company Name	M/s Service Industries limited
Proponent	Mr. Arif Saeed
CNIC	35202-2835725-9
Contact	0300-4665438
Location	GT. Road Gujrat
Business Type	Proposed Construction Of Storage Godown for the Petroleum Products

1.5 - Details of Consultant

Pak Green Enviro-Engineering (Pvt.) Ltd is an independent company, whom conducts IEE, IEE, EMP and other environmental investigations through its panel of environmental consultants, public participation practitioners and experienced environmental managers. Pak Green Enviro-Engineering prides itself on its integrity, independence and skill in assisting interested and affected parties to participate meaningful in the EIA process. Pak Green Enviro-Engineering has no vested interest in the proposed project or the outcome of the application, and has declared its independence as required by the IEE/EIA Regulations.

Attribute	Details
Consultant	Pak Green Enviro Engineering Pvt. Ltd
Office Address	46-M, Gulberg III, Lahore
Contact	▪ 042-35441444 ▪ 0303-4442335
Scope of Services	Independent environmental consultancy for the preparation of EIA including Baseline Assessment, Stakeholder Consultations, Impact Analysis,

	Mitigation Planning, and formulation of the Environmental Management Plan (EMP).
Email	eia@pakgreen.pk

1.6 - Nature, Size and Location of the Proposed Project

The proposed project is Proposed extension by constructing of petroleum products storage godown by M/s Service Industries Limited, located at GT. Road Gujrat

The total area of plot 359 Kanals (45 acres). The cost of the proposed project is around 50 million and the storage for the storage for the storage of petroleum products (MEK) and Toluene will be 21701 LTRS and 1000 LTRS respectively. The company has got approval of map for the subject proposed project.

1.7 - Location

The land co-ordinates of the project site are as follows:

- **Latitude:** 32°35'9.22" N
- **Longitude:** 74° 3'19.48" E

Direction	Description
North	Industrial Unit
South	Road
East	Industrial Unit
West	Industrial unit



Location of Project Site

1.8 - Objective of the Report

Objectives to conduct EIA are as following:

- It is mandatory according to Punjab Environmental Protection Act-PEPA 1997 (Amended 2012).
- To identify the environmental issues pertaining to the operational site.
- To evaluate the ability of the site in view of social acceptance and environmental soundness.
- To provide the maximum information to the proponent and other stakeholders about the existing environmental conditions and the implications of the operational project.
- Collection of available data, reports, drawings and other relevant information about area of operational project.
- Review of applicable existing environmental legislation and Punjab environmental quality standards (PEQS).
- Propose mitigation measures to eliminate or to reduce the negative impacts to an acceptable level.

- Development of well-resourced environmental management and monitoring plans to identify mitigation strategies targeted towards avoidance, minimization and rehabilitation of the impacts.

1.9 - Extent of the Study

In compliance of PEPA, 1997 requirements, an EIA has been conducted by M/S Pak Green Enviro-Engineering Pvt. Ltd. This document covers the environmental impacts of the proposed project in and around the project area comprising the physical, ecological and socio-economic aspects together with identification of the potential positive and negative impacts. Any developmental activities outside the project area like rehabilitation the road and extension of the other factories outside the project vicinity have not been covered under this EIA study.

1.10 - Methodology

For the purpose of this report, environmental and social baseline data and conditions at/around the project site have been undertaken. The methodology adopted to conduct the EIA Study includes Review of Layout Plan, detail meetings with the client, orientation session, development of data acquisition plan, Analysis of Data, review of existing data, primary & secondary data collection survey, Screening of Potential Environmental Impacts and Mitigation Measures and also interviews with people near the project area has been conducted to collect their opinion regarding the proposed project and after findings it has been concluded that the project will not have any major adverse impacts on the socio-economic environment of the existing community.

1.11 - Screening of Potential Environmental Impacts and Mitigation Measures

The process of screening involves identifying the key environmental and social impacts associated with the proposed project activities and evaluating their potential significance in the context of the project's location, design, and operational characteristics. This screening exercise is critical in focusing the assessment on the most pertinent issues and in ensuring that effective mitigation measures are integrated early in project planning.

The screening for the proposed extension — the construction and operation of a chemical storage godown — was based on:

- Review of project design and operational details

- Field visits and consultations
- Environmental baseline conditions in and around the project site
- Legal and regulatory framework, especially Punjab Environmental Quality Standards (PEQS) and PEPA 1997 (Amended 2012)
- Sensitivity of the surrounding environment and community

1.11.1 Construction Phase Impacts and Mitigation Measures

Potential Impact	Description	Proposed Mitigation Measures
Soil disturbance and minor erosion	Site leveling and excavation may disturb soil; accidental spills of MEK/Toluene could contaminate soil.	Controlled excavation and compaction; impermeable flooring for storage area; provision of secondary containment for drums/tanks; spill kits available at site; immediate clean-up of any accidental leakage.
Air pollution (dust & PM)	Dust may be generated during construction; during operation, vapors from MEK/Toluene may cause localized air quality issues	Water sprinkling during construction; covering of raw material piles; sealed storage containers for petroleum products; adequate ventilation system to avoid vapor accumulation; workers to use appropriate respirators/masks.
Noise and vibration	Machinery during construction and vehicle movement during operation may cause noise.	Segregation of solid and hazardous waste; disposal through certified contractors; reuse/recycling of empty containers only after proper cleaning; maintain spill collection units.
Solid waste generation	Domestic/construction waste during building phase; during operation, hazardous waste (contaminated rags, empty drums, spill residues)	Proper segregation of waste; regular collection and disposal via approved contractors; training of workers in good housekeeping practices.

Temporary wastewater generation	Domestic wastewater from workers; no process wastewater expected	Provision of septic tanks for domestic wastewater; no untreated discharge to open land; greywater may be reused for dust suppression or plantation.
Occupational health and safety risks	Storage of MEK and Toluene involves flammability hazards.	Fire hydrants, extinguishers, and sand buckets installed; no-smoking policy; flame-proof electrical fittings; regular fire drills and worker training; designated assembly point

1.11.2 Operation Phase Impacts and Mitigation Measures

Potential Impact	Description	Proposed Mitigation Measures
Chemical spills or leakage	Improper storage or handling of MEK or Toluene can lead to spills, contaminating soil and surface/groundwater.	Use of leak-proof, labeled containers; provision of secondary containment (bund walls); impermeable flooring; training of workers in chemical handling; spill kits and SOPs available at all times.
Groundwater contamination	Possible seepage of petroleum products if storage area is not properly designed.	Impervious concrete flooring in storage areas; routine inspection of drums/containers; monitoring of underground seepage; regular environmental audits.
Air emissions	MEK and Toluene are volatile and can release vapors, contributing to local air pollution and worker health risks.	Adequate natural/mechanical ventilation in godown; proper sealing of containers; periodic air quality monitoring; provision of vapor masks for workers.
Fire or explosion risk	Both MEK and Toluene are highly flammable; unsafe handling may lead to fire/explosion hazards	Installation of fire detection and suppression systems (hydrants, extinguishers, sand buckets); flame-proof electrical fittings; maintenance of water storage for firefighting; strict "no smoking" policy; regular fire drills and staff training.

Noise from operational vehicles	Loading/unloading and transport of drums may generate noise affecting workers and nearby community.	Limit vehicle movement to working hours; ensure vehicle maintenance; use of silencers; instruct drivers to minimize idling.
Hazardous waste generation	Waste includes empty chemical drums, spill residues, and contaminated rags.	Proper segregation and labeling of hazardous waste; disposal only through licensed contractors; reuse/recycling of drums after decontamination; maintain waste inventory records.
Impact on nearby receptors	Any accidental release, fire, or explosion may affect nearby community or industries.	Develop and practice an Emergency Response & Communication Plan; engage with local community/industries; maintain buffer zones; ensure emergency vehicle access routes.
Occupational health and safety (OHS)	Risks include exposure to chemical vapors, accidental spills, or injuries during handling.	Site-specific HSE Plan implementation; mandatory use of PPE (gloves, respirators, flame-resistant clothing, helmets, boots); SDS displayed for all chemicals; regular worker training and medical checkups.

1.11.3 Screening Conclusion

Based on the above screening, it was concluded that:

- The **most significant risks** arise from chemical handling and storage during the operational phase.
- **Construction-phase impacts** are **temporary, localized**, and can be effectively mitigated with standard best practices.
- With the implementation of the proposed mitigation and safety measures, **no irreversible or long-term adverse environmental impacts** are anticipated.
- The project has a low risk profile due to its limited footprint and incorporation into an already industrialized zone, but due to the **hazardous nature of stored materials**, continuous monitoring and adherence to national environmental and safety standards are mandatory.

1.12 Scoping:

Scoping is a critical step in the Environmental Impact Assessment (EIA) process, designed to define the scope, extent, and focus of the environmental assessment study. This section outlines the spatial and temporal boundaries, significant issues raised during stakeholder consultations, and the key environmental and social parameters identified for detailed analysis during the EIA study.

1.12.1 Spatial Boundaries of the Assessment

The spatial boundaries of this EIA are established based on the location of the proposed extension a hazardous petroleum storage of Methyl Ethyl Ketone and Toluene — within the premises of an already operational industrial facility. The assessment covers:

- **Core Zone:** The immediate project site where the storage godown extension is proposed. This includes the construction footprint and all associated facilities such as internal roads, loading/unloading zones, fire safety systems, and utility connections.
- **Impact Zone (Buffer Area):** An area extending up to **500 meters radius** from the storage location, covering nearby roads, industrial units, residential communities (if any), natural drainage paths, and green belts. This zone was selected based on the likely dispersion of air pollutants, noise, and potential safety risks due to accidental spillage or fire incidents.
- **Extended Influence Area (where relevant):** Broader consideration was given to regional environmental aspects such as groundwater vulnerability and cumulative industrial impacts, although this is not the primary focus of the current study.

1.12.2 Temporal Boundaries of the Assessment

The EIA addresses impacts during two main phases:

- **Construction Phase:** Expected to last approximately **3–6 months**, involving minor land development, civil works, material transport, and installation of fire safety and containment systems.
- **Operational Phase:** Encompasses the long-term use of the storage godown for hazardous chemical storage. This phase is assessed in terms of routine storage practices, emission risks, worker and community safety, waste handling, and emergency response measures.

Short-term, medium-term, and long-term impacts were considered during both construction and operation, with emphasis on sustainability and compliance over the lifespan of the project.

1.12.3 Key Issues and Concerns Raised During Consultations

Stakeholder consultations were held with site personnel, nearby factory workers, local community representatives (if applicable), and internal management. The following concerns were raised and addressed:

- **Risk of accidental fire or chemical leakage** due to the hazardous nature of materials stored.
- **Impact on local air quality** during unloading or emergency situations.
- **Concerns about groundwater contamination** if chemicals seep into the subsurface.
- **Traffic congestion and safety risks** from increased transport activity, particularly of hazardous goods.
- **Inadequate awareness and emergency preparedness** among site workers and neighboring units.

These concerns have been integrated into the mitigation and monitoring plan to ensure transparent risk management and proactive safety practices.

1.12.4 Significant Impacts to be Studied

Based on the nature of the extension project and initial screening and consultations, the following environmental and social aspects were identified for detailed analysis:

- **Air Quality:** Emissions from transport vehicles and potential release during storage.
- **Soil and Groundwater Contamination:** Due to accidental spills or leakages from drums/containers.
- **Noise Pollution:** Temporary during construction and from transport operations.
- **Solid and Hazardous Waste Management:** Handling of discarded containers, packaging material, and expired/unused chemicals.
- **Occupational Health and Safety:** PPE availability, staff training, and emergency response mechanisms.

- **Fire Safety and Emergency Preparedness:** Adequacy of firefighting equipment and protocols.
- **Impact on Flora and Fauna (if any):** Within the defined buffer zone, though minimal as the site is in an industrial estate.

1.12.5 Screening and Prioritization of Impacts

The impacts were screened and prioritized based on:

- Legal compliance with **Punjab Environmental Protection Act (PEPA 1997)** and **Punjab Environmental Quality Standards (PEQS)**.
- Probability and magnitude of risk (e.g., chemical leakage vs. dust).
- Reversibility and sensitivity of receptors (e.g., community exposure vs. onsite impacts).
- Availability of feasible and cost-effective mitigation measures.

This scoping exercise ensures that the EIA remains focused, regulatory-compliant, and technically sound, addressing all relevant environmental and social parameters associated with the storage godown extension.

1.13 - Preparation of environmental monitoring program and institutional requirement

An Environmental Monitoring Program (EMP) depicting the mitigation measures and monitoring plan was also developed. Institutional capacity building of project was also reviewed and enhancement was proposed for effective implementation of the EMP.

CHAPTER: 02 - DESCRIPTION OF THE PROJECT

2.1 - Type and Category of the Project:

The Proposed extension by constructing products storage godown, by M/s Service Industries Limited Located at GT. Road Gujrat.

According to the Environmental Protection Agency, Government of the Punjab, Lahore- “List of Projects Requiring an EIA”, and the project under consideration categories falls under Schedule II, Category G, Clause 3 (Hazardous Substance or Waste storage godown), requiring Environmental Impact Assessment. Further, the client is required to fulfill the legal requirements of the Section-12 of the Punjab Environment Protection Act 1997(Amended 2012).

2.2 - Objectives of the Project

The objective of the construction of proposed storage godown is to generate business for the proponent, keeping in view sustainable development and social soundness aspects of the surrounding society.

2.3 - Project Benefit

Project will create jobs for the indigenous people, will engage local people with construction of the project, and improve their living standards. Project is environmentally friendly in all aspects.

2.4 - Alternative Considerations and Reasons for their Rejection:

To fulfill the commercial aspects of the project under reference of this EIA Report, it is to be sited at a place where commercial/ industrial activity is either already going on or there are bright prospects of the same. Concurrently, it must also meet the legal requirements of the Punjab Environmental Protection Act, 1997 (Amended 2012). Availability of land at the best convenient place is equally important among other considerations for the site selection. Availability of access roads, communication facilities, electricity, basic infrastructure, sewerage etc. is yet the other necessary requirements.

Obviously, environmentally sound, neat and clean environment are the other considerations for site selection. The project will also facilitate the people of the area with increasing the opportunity of employment; and others related facilities.

2.4.1 - Activity Alternative:

The subject project is the Proposed extension by constructing the petroleum products storage godown, It is the requirement of the proponent for the safe storage of products in compliance with inter Punjab/ Punjab standards. Temperature limit for the storage of product MEK and Toluene is -6.6°C and 4.4 °C respectively and the storage conditions will be maintained through the structural design of the godown. No artificial cooling mechanism will be installed; instead, the design has been developed to ensure safety, ventilation, and compliance with petroleum storage standards, while keeping the facility environmentally sustainable.

2.4.2 - Location Alternatives:

For the subject project there was no location alternative.

2.4.3 - Selected Site

For the subject project site at GT. Road Gujrat. It is selected because many other storage units are present near the selected site. Site is good enough for the construction of storage unit for storage of industrial crap. Other reasons for selecting this site are following

2.4.4 - Reason for selection of project site:

The land was selected for the following reasons;

- ✓ Proper roads access
- ✓ Economically feasible
- ✓ Trained or untrained workforce is available
- ✓ Neighboring industries and local public have no objection regarding project activities

2.5 - Location

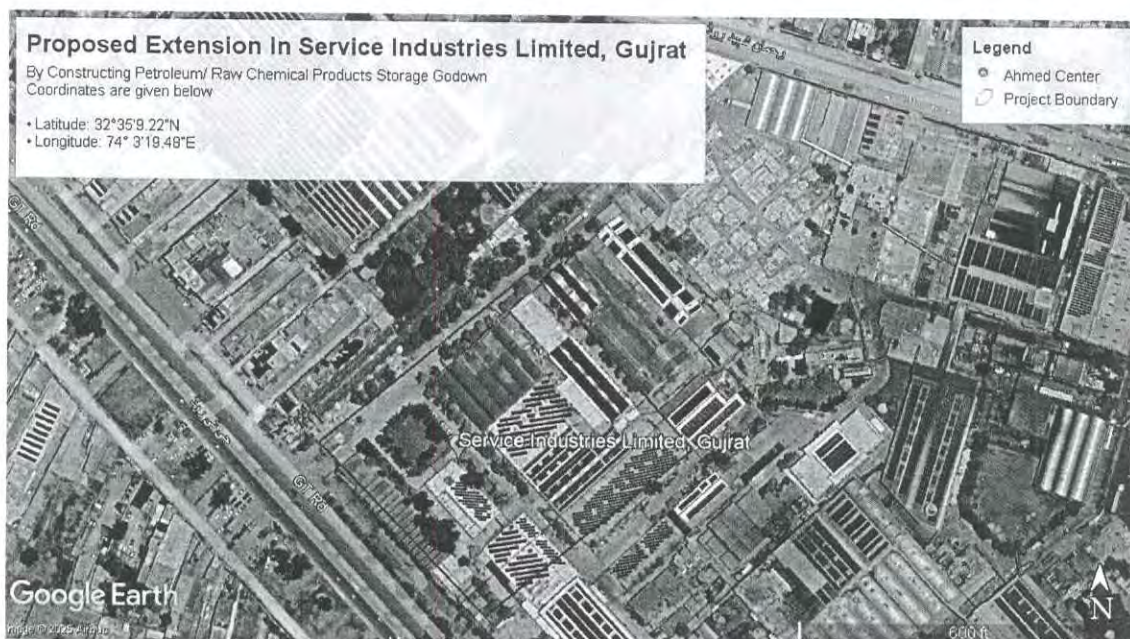
The proposed project is located at GT. Road Gujrat.

Land Coordinates:

The land co-ordinates of the project site are as follows:

- **Latitude:** 32°35'9.22" N
- **Longitude:** 74° 3'19.48" E

Direction	Description
North	Industrial Unit
South	Road
East	Industrial Unit
West	Industrial unit



Location of Project Site

For further detail of the project, please consult the layout plan of the project attached.

2.6 - Existing Land Use

The proposed project is open area. There is no tree and vegetation in the land. The project site is situated at GT. Road Gujrat, All laws and by laws of the government are applicable to any land planning and use as well.

2.7 - Road Access

The main Ferozepur Road and Defence Road (near road location) it has wide paved and massive roads infrastructure. Subject project is present at GT. Road Gujrat, Near Muridke–Sheikhupura Road, so, road access is easy and good.

2.8 - Vegetation features of the project

The project site has few and scattered amount of vegetation that will help to avoid land clearing, mainly shrubs like Parthenium and grasses are present over there in scattered quantity. The land is almost clear and free of dense vegetation.

2.9 - Cost and magnitude of the operation

The project currently is the Proposed extension by constructing raw chemical products storage godown, by M/s Service Industries Limited, located at GT. Road Gujrat. The total area of plot 359 Kanals (45 acres). The project capacity for Methyl Ethyl Ketone and Toluene is 21701 LTRS and 1000 LTRS respectively. The capital cost of the whole project is 50 million, with respect to environmental management will be the periodically replacement/filling of safety devices.

2.10 - Schedule of Implementation

New job opportunities will arise especially for the locals during construction. Detailed feasibility studies and designing of the project have been completed. Necessary legal, administrative and financial formalities are being finalized. The project is expected to be completed within 6 months from the date of environmental approval. Subsequently the operational and maintenance aspects of the project will be undertaken by the proponent.

2.11 - Project Description

The proposed project involves the construction of a storage godown facility for ambient products by M/s Service Industries Limited, located at GT. Road Gujrat. The storage godown is part of an extension plan on an already developed site with industrial characteristics. The total plot area spans approximately 359 Kanals (45 acres), and the cost of the proposed extension project is estimated at PKR 50 million. The storage capacity of the proposed godown is 21,701 liters of Methyl Ethyl Ketone (MEK) and 1,000 liters of Toluene. The facility is designed to store a range of chemical products, including Toluene and Methyl Ethyl Ketone

(MEK), which are categorized as hazardous substances due to their physicochemical properties and potential environmental and health impacts.

2.11.1 Description of Stored Chemicals

Toluene

- Chemical Formula: C_7H_8
- Appearance: Clear, colorless liquid with a sweet, pungent odor
- Flash Point: $4^{\circ}C$
- Hazards: Flammable liquid and vapor; can cause dizziness, headaches, and in high concentrations, central nervous system depression. Long-term exposure can harm the liver and kidneys. Toluene vapors can create fire/explosion hazards in poorly ventilated areas.

Methyl Ethyl Ketone (MEK)

- Chemical Formula: C_4H_8O
- Appearance: Colorless liquid with a sharp, sweet odor
- Flash Point: $-6^{\circ}C$
- Hazards: Extremely flammable; exposure may cause eye, nose, and throat irritation, headaches, and dermatitis. High vapor concentrations can lead to nausea and unconsciousness. MEK is highly volatile and poses inhalation risks in confined spaces.

2.11.2 Nature and Degree of Hazard

Although Toluene and MEK are both classified as Class 3 flammable liquids, the storage godown is designed only for storage, not processing or manufacturing. Hence, the risk is limited to accidental spills, fire, vapor emissions, and poor handling. However, due to their volatile and flammable nature, proper storage and handling protocols are essential to mitigate potential risks.

- Potential adverse scenarios in absence of mitigation may include:
- Fire or explosion due to ignition of vapors
- Toxic vapor inhalation affecting onsite workers
- Environmental contamination from chemical leaks/spills
- Occupational exposure leading to health complications

2.11.3 Health & Safety and Mitigation Strategy

To minimize potential environmental and human health risks associated with chemical storage, **M/s Service Industries Limited** has developed a **robust safety and mitigation plan**, including the following measures:

- **Dedicated, ventilated chemical storage zones** within the storage godown, compliant with international fire safety standards.
- Use of **fire-resistant construction materials** and **chemical-resistant flooring** in the storage area.
- Installation of **fire detection and suppression systems**, including:
 - Fire hydrants, fire water distribution network
 - Fire pumps and extinguishers (Foam, CO₂, DCP)
 - Fire buckets and sand trays
 - First aid kits and emergency eyewash stations
- Provision of **Personal Protective Equipment (PPE)** such as gloves, goggles, flame-resistant suits, and respirators for workers.
- Development of an **Emergency Response Plan (ERP)** including:
 - Spill containment and clean-up protocols
 - Evacuation drills and staff training
 - Coordination with local emergency services
- Regular **storage audits**, **MSDS (Material Safety Data Sheet) availability**, and **labeling of hazardous materials** for easy identification and control.

2.11.4 Environmental and Community Considerations

The project site is located within an **industrial-cum-agricultural zone**, where such facilities are permissible and do not conflict with local land use. The storage godown design ensures that:

- There will be **no emissions or process discharges**, as it is a passive storage facility.
- **Spill containment systems** (secondary bunds/trays) will prevent any groundwater or soil contamination.
- Adequate **setbacks and buffer zones** are maintained to ensure **minimal impact** on surrounding communities and agricultural land.

The facility will generate **positive socio-economic impacts**, including:

- **Employment creation** during both construction and operational phases
- **Skill development opportunities** for local workers
- **Increased tax revenue and industrial output**, contributing to national economic growth

2.12 - Salient Features of the Project

Total Area of Plot	359 Kanals (45 acres)
Storage Products	Lubricants & Oil
Total Project Cost	PKR 50 Million
Storage Capacity Of Methyl Ethyl Ketone (MEK)	21701 LTRS
Storage Capacity of Toluene	1000 LTRS

For Further details of the project please consult the layout map of the project attached with other documents.

2.13 - Waste Products of Project Process

2.13.1 - Water Requirement

Main sources of water consumption are domestic & project related sources as washing, cleaning, & sprinkling purpose as there is no waste water due to project process as there is no manufacturing process involved it is only storage building.

About 65 gallons per day per person of water will be used during construction phase for sprinkling and domestic purposes while 80 gallons per day per person of water will be used during operation phase for drinking and domestic purposes.

2.13.2 - Waste water treatment:

About 80% of the used water will be waste water which will be treated in septic tanks and after treatment some quantity of treated water will be used for sprinkling on grassy lawns and plantation within the premises of the industry and remaining waste water will be drained out

into municipal waste water channel. Monitoring of the main drain which receiving the waste water was conducted to water quality at PEQS.

2.14 - Atmospheric Emissions:

Air emissions from stacks of generator and reactors will be kept within PEQS. The air quality assessment report will be submitted to EPA prior to environmental approval for the operation phase of the subject project.

2.15 - Noise

Noise level monitored at the boundary wall for the proposed project by the Pak Green Laboratories, fall within the prescribed limits of PEQS. It will be the responsibility of project manager to take care of the noise level limits during the construction of storage godown through proper maintenance of the generators and construction machinery.

Noise Level report is annexed.

2.16 - Solid waste:

All raw materials will be recycled during the construction activities as road filling and maintenance purposes. During the construction about 16 kg per day of domestic solid waste will be generated which will be placed in solid waste bins within the project boundary wall and will be handed over to contractors.

HSE manager will be appointed by the proponent to manage the solid waste on regular basis, to ensure the good housekeeping at site and in storage godown, to inspect any discrepancies arise due to improper functioning of the HSE conditions and to adopt the proper solid waste management system.

2.17 - Sludge:

Sludge from septic tanks will be replaced on regular basis and will be disposed-off in environmentally friendly way through certified contractor; contractor can use it as composite component or incinerate it.

2.18 - Plantation

Plantation will be done as per recommendation of the EPA within the industry and area for this purpose will be reserved within the boundary walls. Plantation can also be done along the road sides with consultation of EPA.

2.19 - Fire Protection System

An addressable fire protection system with detection and alarm annunciation and other installations etc. would be provided to protect against any fire hazards. Fire buckets and fire extinguishers will be installed at all sensitive places.

2.20 - Emergency Exits:

Emergency exit points will be made available for easy evacuation in case of emergency situations.

2.21 - Security:

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

2.22 - Power sources and transmission:

Power requirement will be fulfilled by WAPDA & by standby Generators in case of emergency situation and during electricity shortfall.

2.24.1 - Available Facilities

- Available facilities are given below:
- Solid Management (SWM) implemented
- Line and cellular telephone facilities
- Water supply, sewerage disposal and drainage systems
- Trained staff for operation of the proposed project is available.

2.25- Personal protective equipment:

Workers will be provided with Gloves, Masks & other personal protective equipment during the working hours to insure personnel health & safety. Implementation of PPEs will be ensured by the proponent for the proposed project.

2.26- Restoration / Rehabilitation Plan

All possible precaution will be taken to prevent an untoward incident in terms of life and property losses. The demolition materials will possibly be reused and recycled. All excavated surfaces will be restored in environment friendly way.

One completion of the project, the debris will be removed from the site in order to maintain aesthetics of the project. All measures will be undertaken for ensuring occupational safety, security and clean environment in the project area. Local species of trees and flowering plants will be planted within the unit premises, along the road sides.

2.27 Rainwater Harvesting System

Rainwater harvesting (RWH) is a sustainable and eco-efficient practice aimed at capturing and storing rainwater for future use. For the proposed extension of the existing facility—which includes the construction of a hazardous chemical storage godown—an integrated Rainwater Harvesting System is proposed to promote water conservation, reduce reliance on municipal supply, and control stormwater runoff, thereby aligning the project with sustainable environmental practices.

2.27.1 Purpose and Benefits of Rainwater Harvesting

The implementation of a rainwater harvesting system offers multiple environmental and operational advantages:

- **Reduction in freshwater demand** by supplementing water requirements, especially for non-potable uses such as floor washing, gardening, and fire-fighting reserves.
- **Groundwater recharge**, where feasible, helps restore aquifers, which is crucial given the declining water table in many industrial areas.
- **Stormwater management** by preventing localized flooding, erosion, and waterlogging, especially during monsoon periods.
- **Reduction of environmental footprint**, contributing to sustainable development and compliance with green building standards.

2.27.2 System Design and Components

The rainwater harvesting system for the proposed facility is designed based on the **roof catchment approach**, considering the total available rooftop area of both the new storage godown and existing structures.

Key Components Include:

- **Catchment Area:** Rooftop of the storage godown and other large surface areas are used as collection surfaces. The roofing material is selected to be smooth and non-toxic to ensure water quality.
- **Conveyance System:** A network of **PVC gutters and downpipes** directs the rainwater from the roof to the filtration unit. These are sloped appropriately for efficient flow and fitted with mesh screens to prevent debris entry.
- **First Flush Diverters:** These systems are installed to remove the initial dirty runoff from the roof, which may contain dust, bird droppings, and other pollutants accumulated during dry periods.
- **Filtration Unit:** A **multi-layered sand, charcoal, and gravel filter** is installed to treat the water before it is stored or recharged. This ensures the removal of turbidity, odor, and minor contaminants.
- **Storage Tanks:** The filtered rainwater is stored in **overhead and underground water tanks** constructed from RCC and/or HDPE-lined concrete. These tanks are sized based on rainfall intensity, roof area, and intended usage.
- **Overflow Arrangement:** Excess rainwater that cannot be stored is directed to **stormwater drains** or used for **groundwater recharge** through percolation pits where hydrogeological conditions allow.

2.27.3 Storage Capacity and Water Utilization Plan

- Based on Lahore's average annual rainfall (~700 mm) and the total effective catchment area (~1,500–2,000 m²), the system is estimated to harvest approximately **900,000 to 1,200,000 liters per annum**, depending on rainfall variability.
- The stored rainwater will be used for:
 - **Washing and cleaning operations** (non-process areas only)

- **Gardening and landscaping**
- **Fire safety water reserves**
- **Toilet flushing** (if applicable)
- **Recharging groundwater** during excess rainfall

2.27.4 Maintenance and Monitoring Protocol

Regular maintenance is critical to ensure system efficiency and water quality. The following protocols are established:

- **Monthly cleaning** of catchment areas and inspection of gutters and downpipes.
- **Quarterly maintenance** of filters and first flush systems.
- **Annual desilting** of storage tanks, especially before monsoon season.
- **Water quality testing**, particularly if used for activities where human exposure is possible.
- **Recordkeeping** of water collection volumes, usage, and maintenance logs.

2.27.5 Environmental Compliance and Long-Term Vision

Rainwater harvesting is a recommended best practice under **Pakistan Building Codes** and supports objectives of **Sustainable Development Goal 6: Clean Water and Sanitation**. The project aims to:

- Reduce its dependence on groundwater resources
- Demonstrate environmental stewardship within the industrial sector
- Serve as a **model for sustainable industrial development**, encouraging other industries in the Quaid-e-Azam Industrial Estate and beyond to adopt similar practices

CHAPTER: 03 - DESCRIPTION OF ENVIRONMENT

This chapter provides a detailed analysis of the existing environmental conditions in and around the project area for the proposed extension of a petroleum products/raw chemical storage godown located on GT Road, Gujrat (Latitude: 32°35'9.22"N; Longitude: 74° 3'19.48" E). The baseline data establishes the environmental status before project implementation and serves as a reference point for evaluating potential impacts.

3.1 - Physical Environment/ Resources

3.1.1 - Topography:

Gujrat lies in the northern part of Punjab and forms part of the alluvial plain between the Jhelum and Chenab Rivers. The general topography is flat to gently undulating, with altitudes ranging from 200 to 250 meters above mean sea level. The terrain allows for efficient surface drainage and is conducive for industrial and commercial development. No significant hills, valleys, or escarpments exist in the immediate vicinity of the project site.

3.1.2 - Topography of the project area:

The proposed site on GT Road is flat, compact, and free from any significant natural depressions or highlands. The site lies on stable ground with minimal susceptibility to erosion or flooding. The flat nature of the land facilitates easy construction and infrastructure development. Surrounding land use is primarily commercial and industrial in nature.

3.1.3 - Soil:

The soil in the Gujrat region is derived from riverine alluvium and is typically silt loam to clay loam in texture. It supports agricultural activities in peripheral areas. At the project site, the soil is moderately compact with good bearing capacity suitable for construction. Preliminary testing indicates a neutral pH and absence of contamination. However, due to the nature of the proposed chemical storage, impermeable flooring, protective barriers, and regular soil monitoring will be required to avoid seepage and contamination.

3.1.4 - Climate:

Gujrat experiences a semi-arid, subtropical climate with distinct seasons:

- Summer (May to August): Hot and dry, with temperatures rising up to 45°C.
- Monsoon (July to September): Humid conditions with moderate to heavy rainfall.

- Winter (December to February): Mild and dry, with temperatures occasionally dropping to 5°C.
- Annual Rainfall: Approximately 700-900 mm, mostly in the monsoon period.
- Relative Humidity: Varies between 40% and 70%.

3.1.5 - Ambient Air Quality:

Air quality near the GT Road corridor can be moderately affected by vehicular traffic. Parameters monitored at the site indicate:

- PM2.5: 38 $\mu\text{g}/\text{m}^3$
- PM10: 62 $\mu\text{g}/\text{m}^3$
- NO2: 21 $\mu\text{g}/\text{m}^3$
- SO2: 10 $\mu\text{g}/\text{m}^3$

All values are within the NEQS for industrial/commercial zones. Emission controls and green buffer zones around the site are recommended for mitigation.

3.1.6- Noise Level Monitoring:

Noise levels during the day are elevated due to heavy traffic on GT Road:

Daytime Average: 65–70 dB(A)

Nighttime Average: 55–60 dB(A)

These values slightly exceed the NEQS for sensitive receptors. Use of noise barriers and limiting construction during night hours is advised.

3.1.7 - Surface water:

No natural surface water bodies are located within a 5 km radius of the project site. The nearest water channel is the Upper Jhelum Canal, approximately 10 km to the west. The project area is not prone to surface water accumulation or flooding, but proper stormwater drainage infrastructure will be necessary.

3.1.8 - Ground water:

Groundwater is the primary source of water supply in Gujrat. Tube wells in the vicinity extract water from depths of 100–200 feet. Testing results are as follows:

- TDS: 450 mg/L
- pH: 7.2–7.6
- Electrical Conductivity: 650 μ S/cm

The quality is within drinking water standards. To prevent contamination from stored chemicals, double-containment systems and spill control measures are recommended.

3.1.8.1 - Discussion of Results

Water quality results show compliance with PEQS. There is no current evidence of contamination. However, environmental safeguards must be integrated into the project design to preserve groundwater integrity.

3.2 – Biological Environment:

3.2.1 Fisheries

There are no fisheries or aquatic ecosystems in the immediate vicinity. Therefore, the project will not impact any fish habitats.

3.2.2 Biodiversity

The area is not ecologically sensitive and consists mainly of disturbed habitats. Local biodiversity includes birds, rodents, reptiles, and domestic animals. No critical habitats are present.

3.2.3 Flora

Flora around the project site includes planted trees such as Shisham, Kikar, and ornamental shrubs. Vegetation is sparse and mostly found in landscaping or along roadways.

3.2.4 Fauna

Common fauna includes:

- **Birds:** House sparrow, crow, mynah
- **Mammals:** Rats, cats, dogs
- **Reptiles:** Lizards, occasional non-venomous snakes

No wildlife sanctuaries or corridors are near the site.

3.2.5 Rare or Endangered Species

No endangered species (IUCN Red List) are reported in the project influence area. The proposed development does not threaten any sensitive species.

3.3 – Socio Economic Environment

3.3.1 Demographics

The project is located in a semi-urban setting of Gujrat district. The local population consists of traders, industrial workers, and transport service providers. Nearby settlements have access to basic amenities such as education, healthcare, and public transport. Literacy rates are relatively high (~70%).

3.3.2 Education

The district has multiple public and private schools. University of Gujrat (UOG) is a key higher education institution in the region. Literacy and awareness are above average compared to provincial standards.

3.3.3 Culture

The area exhibits traditional Punjabi culture, with Islamic religious practices dominant. Community life is active, and social events include Eid celebrations and local fairs.

3.3.4 Recreational Resources and Development

Recreational spaces such as parks and sports grounds exist within Gujrat city. The project area itself has limited recreational infrastructure.

3.3.5 Aesthetic Values

The site is located in a semi-industrial corridor, with modest aesthetic value. Landscaping and buffer zones can enhance visual appeal.

3.3.6 Archaeological and Historical Treasures

No archaeological or culturally significant heritage sites are present within or near the project boundary. Construction will not affect any historical monuments.

3.3.7 Land Use

The project site is located in a commercially zoned area along GT Road, surrounded by similar

warehousing and service facilities. The land use is compatible with the proposed development.

3.3.8 Transportation and Accessibility

The site is directly connected to GT Road, facilitating easy transport of materials and products. This strategic location enhances logistics but may require traffic management measures during peak operational hours.

3.4- Natural Hazards & Site Suitability

3.4.1 Seismic Activity and Natural Hazards

Gujrat lies in **Seismic Zone 2B** as per Building Code of Pakistan (BCP), which represents a **moderate level of seismic risk**. While not considered a high-risk zone, seismic activity such as tremors or mild earthquakes can occur and must be addressed in structural design. Construction should comply with **seismic-resistant engineering standards**, especially since the project involves storage of flammable or hazardous materials.

Flooding risk is considered **low** due to the project site's elevation and absence of nearby rivers or streams. However, the monsoon season can result in temporary waterlogging. Therefore, **stormwater management systems** and adequate drainage infrastructure must be integrated to avoid pooling of water that could damage foundations or lead to chemical leaching in the event of spills.

Additionally, the project must be prepared for other natural hazards including:

- **Strong winds and dust storms** (seasonal)
- **Extreme summer heat**, which may increase the volatility of stored chemicals
- **Localized lightning events**, which necessitate grounding and lightning arrestor systems.

3.4.2 Suitability of Site

The selected site is well-suited for the intended petroleum/chemical storage godown for the following reasons:

- Located in a **commercially zoned area** with nearby supporting infrastructure
- Direct access to **GT Road**, enhancing connectivity and logistics
- Sufficient **distance from residential zones**, reducing risk to the local population
- **Flat terrain** with good soil stability, allowing safe foundation construction
- **No presence of ecologically sensitive areas** within the zone of influence

The project site also benefits from available utilities such as water, electricity, and access roads.

However, given the nature of the stored materials, site suitability is conditional upon implementing:

- **Impermeable flooring and bund walls** to prevent ground contamination
- **Spill containment systems** for chemical safety
- **Fire-fighting infrastructure**, including foam and dry powder extinguishers
- **Restricted access and trained personnel** for handling hazardous goods

With proper environmental and safety measures, the site is both technically and environmentally appropriate for the proposed development.

This comprehensive environmental description provides the foundation for assessing potential project impacts and identifying appropriate mitigation strategies in subsequent chapters of the Environmental Impact Assessment (EIA) report.

CHAPTER: 04 - SCREENING OF POTENTIAL ENVIRONMENTAL IMPACTS & THEIR MITIGATION MEASURES

4.1 - Rapid Environmental Assessment Procedure

In order to give correct categorization to the present project Rapid Environmental Assessment Procedure was followed. It revealed that there are no adverse impacts of the project. Only a few and moderate/minor impacts are projected. According to Pakistan Environmental Assessment Procedures, 1997 and in the light of Section 12 of Punjab Environmental Protection Act 1997 (Amended 2012), there is requirement of carrying out EIA study.

4.2 - Screening and Categorization

4.2.1 - Screening

It is the first step of the environmental study. It identifies the factors that may influence the project environments. Level of the assessment is also determined.

4.2.2 - Categorization

Categorization of the project is done as per Pak EPA, Punjab Environmental Protection (Review of IEE and EIA) Regulations, 2022. Accordingly, the project falls in Schedule II, Category G, Clause 3 (Hazardous Substance or Waste storage godown) for which an EIA level study is needed.

4.3 - Consultations with Public and Stakeholders

4.3.1 - Consultations

Scoping sessions, focused group discussion and way side consultations were held with the relevant stakeholders. These included local government departments, NGOs, public representatives and local residents. The purpose of such consultations is to obtain the feedback from the relevant persons.

4.3.2 - Concerns of Stakeholders

During these discussions the participants gave their candid views about the environmental issues and their potential impacts. There was unanimous positive view about the installation of

the present unit. However, they opined that mitigating measures will be taken to minimize the environmental degradation and ward off an untoward incident/accident. Some of their main concerns are given below:

- The wastes and effluents will not be thrown in the local canals/drains.
- The wastes will not be spread in the open around the building
- The locals will be consulted during every phase of the project.
- The proponent will provide the jobs preferably to local communities.
- Financial support will be provided to the surrounding communities for undertaking small projects in health, education and social sector.
- Some health facilities will be provided to the workers of the project.
- The project will not cause environmental degradation in any shape.

4.4- Environmental Issues

4.4.1- General

The environmental issues had been identified during literature review, consultation with stakeholders, relevant reports and visits to project site. Various types of environmental issues likely to crop up during the life cycle of project are grouped in the following stages:

- Planning, site selection and design stage
- Site development stage
- Construction stage
- Operation stage

4.4.2- Environmental impacts due to the project location

4.4.2.1- Project Location:

The subject proposed project is located at GT. Road Gujrat under the name of M/s Service Industries Limited. At the west side of the project location, access link road is present. At the north, south and east side, open plots are present around the subject project.

4.4.2.2- Impact

Subject project is present in the industrial cum agricultural area of the district Lahore Map is annexed with the EIA and file. Only visiting vehicle have negative impact on the environment due to the parking and emissions release from the vehicles. There are no other impacts associated with the subject project location.

Attribute	Description
Impact Significance	Very Low or May Be Positive
Nature of Impact	Indirect
Duration	Short-term
Timing	Operation Phase
Reversibility	Not Applicable (N/A)
Likelihood	Low (Unlikely)
Consequences	Very Low or May Be Positive

4.4.2.3 - Mitigation measures

- Parking area for the cars and motor cycle has been reserved within the subject project
- For proper parking a Security guard will be there.
- Location can be considered as positive impact on the community due to the Jobs opportunity provided to the community.

4.4.3 - Environmental Impacts due to the project design

Subject Project is storage godown by M/s Service industries Limited, Located at GT. Road Gujrat. Area for parking, solid waste management and waste water treatment facility will be reserved within the subject project. Firefighting plan, health & safety plan, tree plantation plan, emergency response plan will be incorporated during the design phase of the project. The subject project will consist on;

- Power house main installation machinery building
- Security guard rooms

- Main office
- Separate water storage taken for the firefighting and domestic purposes
- Firefighting instrument room
- Parking

Following are the major Environmental impacts due to the development related to the design:

4.4.3.1- Impacts

- Structural stability of the proposed project.
- Soil structure and soil bearing capacity
- Road infrastructure design
- Emergency exit in the Proposed project
- Firefighting system
- Wastewater disposal system design
- Rain water harvesting capacity of the drainage system
- Electricity hazardous

Attribute	Description
Impact Significance	Moderate to High or May Be Negative
Nature of Impact	Direct
Duration	Long-term
Timing	Construction Phase & Operation Phase
Reversibility	Not Applicable (N/A)
Likelihood	Moderate to High
Consequences	Moderate to High or May Be Negative

4.4.3.2- Mitigation measures and recommendations

Following are the mitigation measures and recommendation to minimize the anticipated impacts

- Emergency exist points should be marked within the project building
- Firefighting system should be design for the emergency situations
- Electricity system should be design safe and sound,
- Electricity wires should be covered by thick plastic/electricity resistant covers.

4.4.4 - Environmental Impacts due to Construction Stage

The construction stage may involve the following Impacts

- Generation of dust during loading and unloading of construction materials.
- Generation of noise on account of vehicular use and construction activities. It will be noted that background noise level will be less than PEQS limits.
- Local flooding due to over-use of water and leakage of pipes.
- Safety of construction workers, people in the surroundings and passersby. Occupational Health & Safety means to provide and maintain a working environment in which employees are not exposed to hazards.
- There must be no release of noxious or offensive odors or contaminants beyond the project site to cause any harm at any odor sensitive place.
- Any outbreak of fire due to electrical and other failures.

4.4.4.1 - Impact significance: moderate to high or may be negative

Attribute	Description
Nature of Impact	Direct
Duration	Long-term
Timing	Construction Phase & Operation Phase
Reversibility	Not Applicable (N/A)
Likelihood	Moderate to High
Consequences	Moderate to High or May Be Negative

4.4.5- Environmental Impacts during Operation Stage

Main environmental issues associated with Project operation are as follow.

- Waste water due domestic activities.
- Fire due to short circuits and other activities.
- Solid waste generation due to domestic activities.
- Noise pollution from generator and other machinery.
- Health hazards including the electricity hazardous
- Vehicle access is required especially for transportation. The site is well served with the road network. Heavy traffic will be allowed only during tight time during operational phase. The traffic issues at any stage of project life cycle will not arise.

4.4.5.1- Impact significance: moderate to high or may be negative

Attribute	Description
Nature of Impact	Direct
Duration	Long-term
Timing	Operational Phase
Reversibility	Not Applicable (N/A)
Likelihood	Moderate to High
Consequences	Moderate to High or May Be Negative

4.4.5.2- Recommendations

- Wastewater treatment facility already constructed on the reserved place with the subject site to treat the domestic waste water
- A well design firefighting system will be constructed to cope with fire situations in the subject project.
- Installed Solid waste bins should regularly clean and solid waste must be handed over to the EPA Approved contractor.
- Electricity monitoring/Thermography should be conducted by the proponent quarterly for the safe supply.
- Project proponent should submit all the monitoring report in the EPA Punjab Office for the compliance of the PEQS

4.5- General Measures

- Thick vegetation clearing will be minimized and felling of trees will be avoided.
- Unnecessary clearing of vegetation will be strictly prohibited.
- Dozers will not be used to minimize drop damage.
- Unit will be established in clearings that already exist.
- If clearing for establishing a campsite is unavoidable, rootstock will be preserved to minimize damage to topsoil.
- Trees cutting will be avoided.

- The movement of machinery will be restricted to the work corridor.
- Existing routes will be used to access the survey lines as far as possible.
- All necessary measures will be taken to avoid pollution during operation phase of the subject project.

4.6- Residual Impact:

If the mitigation measures are effectively implemented, the residual impact of the proposed activities on the area's geophysical environment is expected to be insignificant.

4.6.1- Consequences:

Mild to moderate; the scarring of a small area of land will not have a severe impact.

4.7- Potential Environmental Enhancement Measures

The proposed project will be installed with all precautionary measures to enhance and safe the environment. Following necessary measures will be adopted during construction and operation:

- Sprinkling of water will be done on dusty road and tracks
- PPEs will be provided during construction activity
- Constructional waste and domestic solid waste will be disposed-off or utilized properly
- Local people will be informed in advance when work is about to start in an area
- Machinery will never be left unattended
- Efforts should also be made to discuss traffic conditions so that regular traffic is not disturbed. Transporters engaged for the project would be forced to adhere to the load specifications of the access road. No overloading would be allowed in any case.
- Safety signs and boards will be placed during construction
- Air pollution controlling devices will be installed within the project during operation
- Scrubbing system will be installed at stack of generators
- Machinery will be kept maintained

- Waste water will be treated through waste treatment plant that will be installed within the industry
- Proper SOPs will be followed with proper schedule along with the HSE conditions
- Area will be restored with native plants. A proper tree plantation plan will be formulated to save the environment
- Solid waste will be handed over to contractors and agreement will be made.
- Noise will be controlled by adopting proper measures
- PPEs will be provided to workers during working
- Firefighting equipment's and system will be installed
- Safety signs will be placed at all locations where required
- Hygienic conditions will be ensured and proper quality will be maintained by quality control testing.
- First aid facilities will be made available

4.8- Disturbance to other Site Users

The site is not used by others as it is the property of M/s Service Industries Limited users is out of question. Industry will not be involved to emit offensive odor, noise and other objectionable pollutants/pollution so there will be no environmental pollution issues to the nearby industries.

4.9- Availability of Essential Services

Water supply, drainage and sewerage disposal systems are present at proposed site.

4.9.1- Water Supply

Water is needed for cleaning, fire protection and for drinking purpose. Minimum one day's reserve will be kept at the project site. Water will be tested for chemical and bacterial contamination.

4.9.2- Waste Water

Waste water will be treated in septic tanks and then directed to drainage system.

4.9.3- Communication Infrastructure

The project site is well served by road network.

4.10 - Availability of Construction Materials

The contractors either provide the construction materials like cement, steel and bricks at the site on as required basis or these are procured by the proponent. All the construction materials are locally available.

4.11 - Skilled and Unskilled Labor

These workers are available at economical rates all the time. The project provides the jobs to the local residents as well as to those from the suburban areas.

Extensive operational & maintenance training will be imparted to staff through well-defined training program before and during system commissioning.

4.12 - Traffic Issues

Vehicle access is required especially for transportation. The site is well served with the road network. Heavy traffic is allowed in industrial Estate. The traffic issues at any stage of project life cycle will not arise.

4.13- Main Environmental Issues

Main environmental issues associated with project are as follow.

- Waste water due domestic activities.
- Fire due to short circuits and other activities.
- Solid waste generation due to domestic activities.
- Noise pollution from generator.
- Health hazards

4.14- Assessment of Potential Impacts

4.14.1- Assessment Criteria

The impacts were assessed in the light of criteria given as under: -

- Magnitude or degree of impact

- Time and duration of impact
- Likelihood of impact occurrence
- Sensitivity of impact
- Risk related to impact

4.14.2- Types of Negative Impacts

4.14.2.1- Minor Impacts

These are of minor intensity. For mitigation of the minor impacts routine and limited actions are required.

4.14.2.2- Moderate Impacts

These impacts need specific and additional mitigation measures.

4.14.2.3- Major Impacts

These impacts have severe adverse impact. These are intolerable. All possible preventive and multiple control measures are adopted to minimize their intensity and duration.

4.15- Impacts on Physical Environments

4.15.1- Groundwater Quality and Level

The proposed project would not affect the quality and level of groundwater. Projected impact is nil.

4.15.2- Land Utility

It will increase significantly since the project has been planned to be constructed on the existing unused area.

4.16- Impacts on Biological Environments

4.16.1- Flora

The project site is devoid of any significant vegetative cover. Only few plants are present. Nil impact is envisaged.

4.16.2- Fauna

The fauna including wildlife species do not exist at the project site. The impact will be nil.

4.17- Impacts on Socio-economic Environments

4.17.1- Security

Because of presence of security guards round the clock the security at the project site will improve as well as in its vicinity. Impact will be moderate positive.

4.17.2- Land Value

Land value in the surrounding area will increase due to completion of the present project. Impact will be moderate positive.

4.17.3- Resettlement Issues

The project does not involve resettlement issues. There is no requirement of resettling a single person. Impact is nil.

4.17.4- Dislocation of Population

The project does not involve dislocation of the people. There is no requirement of resettling a single person. Impact is nil.

4.17.5- Loss of Property/Infrastructure

No movable or immovable property and infrastructure of public and private sectors will be lost or damaged during construction and operation stages. Impact will be nil.

4.18- Mitigation Measures

4.18.1- General

The project will not cause any significant negative impact on the local environment during site selection and design stage. The project may face minor negative impacts during site development and construction stages. These can be mitigated by adopting suitable measures as given in the following:

4.18.2- Site Development Stage

4.18.3- Generation of Dust

Generation of dust will be minimized by adopting the following steps:

- Careful loading and unloading of construction materials.
- Sprinkling of water at construction site and surrounding areas.

4.18.4- Generation of Noise

Unwanted noise can be reduced by the steps given as under:

- Avoid using forbidden horns at the site.
- Do not throw heavy equipment and construction materials in haphazard manner.

4.18.5- Local Flooding

Immediate repair and maintenance of water supply pipes and sewers in case of any defect will be undertaken. The area does not fall in flood zone.

4.18.6- Outbreak of Fire

Keep the firefighting equipment at the site in good working condition.

4.18.7- Safety

- Safety of the workers and others will be ensured.
- Privacy of the neighbors will not be disturbed.

4.19- Corporate Social Responsibility (CSR)

CSR means “the continuing commitment by business to behave ethically and contribute to economic development while improving quality of life of the workforce and their families as well as of the local community and society at large. CSR Committee of M/s Service Industries Limited entrusted with task of identifying areas where the Management of storage godown by M/s. Service Industries Limited could participate positively to the development and improvement of better society in the project area. The Committee's mandate is to initiate, facilitate, coordinate and monitor CSR projects of the Company.

4.20- Structural Stability

While carrying out the detailed designing of the project building structural, engineering, safety and seismic considerations have been taken into account to make it structurally viable and environment friendly. Project proponent has obtained structural stability certificate for the project's structures.

4.21- Undertaking

The proponent has committed to comply with the relevant construction by-laws/ safeguards and the environmental enactments for the environmental preservation. Project proponent has given Undertaking and Affidavit respectively.

CHAPTER: 05 - ENVIRONMENTAL MANAGEMENT & MONITORING PROGRAM

5.1- Purpose and Objectives of the EMP:

The primary objectives of the EMP are to:

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

5.2 - Management Approach:

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

5.3 - Institutional Responsibilities/Capacity

Following functionaries will be involved in the implementation of EMP:

- Project Proponent
- HSE/Project Manager
- In-Charge Administration
- Supervisor of project
- Environmental Engineer

5.4 - Training Schedules

Training for the management/contractors/engineers and workers on environmental aspects of the project will be arranged. It will be imparted by a team of experienced trainers.

5.5 - Training of building contractor

Training of building contractor & workers will be the part of the TORs regarding the construction of the building. The provisions given in EIA Report Chapter 6 Screening of Potential Environmental Impacts & Their Mitigation Measures will be followed.

TORs will be including the training and submission of reports in the following area:

1. Handling of Machineries in a safe way
2. Use of PPEs
3. Maintenance of vehicles and submission of Environmental Monitoring Reports
4. Maintenance of Water Consumption records
5. Testing of water and waste water and submission of Environmental Monitoring Reports
6. Placement of safety signs/boards during construction
7. Sprinkling of water on the roads and dusty tracks
8. Monitoring of generator emissions

Training regarding all other aspects of HSE will be ensured by the contractor during the construction phase.

5.6- Responsibility of EMP

Overall responsibility for implementation of EMP will be that of project proponent. He will appoint an HSE/Project Manager of relevant qualification. HSE/Project Manager will act as Environmental Manager and will manage the all HSE condition at the PEQS.

5.7- Environmental Technical Assistance and Training Plan

In order to raise the level of professional and managerial staff, there is a need to upgrade their knowledge in the related areas. HSE/Project Manager should play a key role in this respect and arrange the training programs.

HSE/Project Manager will provide training to staff and workers about the best environmental management practices at the construction site and affective implementation of the EMP.

The training modules will include air, noise and water pollution monitoring, social awareness, Environmental Laws, Punjab Environmental Quality Standards (PEQS), Usage of personal protection equipment's, and health and safety related issues on the construction site.

The HSE/Project Manager will train all workers & staff in basic sanitation and health care issues (e.g., how to avoid malaria and transmission of Sexually Transmitted Infections (STI) HIV/AIDS and in general health and safety matters, and on the specific hazards of their work. Training should also consist of basic hazard awareness, site specific hazards, safe work practices, and emergency procedures for fire, evacuation.

HSE/Project Manager will arrange Training on monthly or quarterly basis regarding health & safety, hygiene, firefighting and first aid.

Table – Mitigation Measures

Serial	Environmental Issues/ Impacts	Mitigation Measures
PLANNING, SITE SELECTION AND DESIGN STAGE		
1	Observance of administrative and legal formalities	Obtain environmental approval from EPA Punjab and all relevant petroleum-related NOCs (Civil Defense, Explosives Department, etc.).
2	Acquisition of land	The proposed land is the legal property of the project proponent.
3	Loss of environmentally sensitive areas	No sensitive areas are present near the project site. Compliance with PEQS at the boundary wall will be ensured to avoid impacts on nearby industries/settlements.
4	Changes in traffic pattern	No major change in traffic pattern is expected as only a limited number of vehicles will access the site daily for transportation of petroleum products. Traffic safety signage will be installed

ENVIRONMENTAL IMPACT ASSESSMENT
M/S SERVICE INDUSTRIES LIMITED

5	Potential conflicts with stakeholders	Neighboring industries/communities were consulted; no objections were reported. Continuous stakeholder engagement will be ensured.
6	Resettlement issues	No resettlement issues are involved in the project
7	Project Design	Structure stability and soil bearing assessment carried out. • Design includes fire hydrants, firefighting arrangements, emergency exits, and assembly points. • Adequate ventilation and passive cooling to prevent vapor accumulation. • Safe storage tanks/barrels with impermeable flooring to avoid seepage.

SITE DEVELOPMENT STAGE

1	Erosion due to stripping and site clearance	Sprinkling of water on road side or dusty tracks
2	Generation of dust	• Controlled loading/unloading of construction material and regular sprinkling of water on-site.
3	Generation of noise	• Avoid using forbidden horns at the site. • Do not throw heavy equipment and construction materials in haphazard manner. • Avoid unnecessary horn use; maintain machinery; schedule work during daytime only.

4	Local flooding/ponding	Immediate repair and maintenance of water supply pipes and sewers in case of any defect will be undertaken.
5	Outbreak of fire	Firefighting equipment must be maintained at the site in good working condition.
6	Safety	• Safety of the workers and others must be ensured. • Privacy of the neighbors must not be disturbed.
7	Labor issues	Employ the local labor as far as possible Wages of the labor should be as per Government policy

CONSTRUCTION STAGE

1	Minor erosion of land	• There are two types of erosions: 1. Wind Erosion 2. Water erosion • It is recommended to construct the boundary wall first that will reduce the soil erosion due to wind and chances of water erosion due to water flow from the adjacent will be reduced also. • Clearing of land should be step wise; vegetation should be removed only from the area where main building will be developed. • Add more vegetation, restore the land by more plantation
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		• Sprinkle water on dusty tracks is recommended
2	Contamination of land and water	Hazardous substances like oil, fuel, etc. should be kept on concreted surface. Essential services like water supply, sewerage disposal and solid waste management must be in working condition.
3	Impacts of dust, noise and flue gases on neighbors	Sprinkle water on dusty tracks is recommended Avoid using forbidden horns at the site. Do not throw heavy equipment and construction materials in haphazard manner. Proper tunings of vehicles and machinery must be ensured. Schedule construction timings should be implemented for minimum disturbance to neighbors. Continuous Environmental monitoring must be ensured as per proposed monitoring plan.
OPERATIONAL STAGE		
1	Contamination of land and water sources	Continuous vigilance on maintenance of services Tarpaulin sheets must be placed to avoid leaching of oil into ground
2	Fire breakouts	Training of workers regarding flammable substances will be ensured. SOPs of fire prevention will be adopted like forbidden of smoking, regular testing of electricity infrastructures and regular testing of gas supply system to the industry.

		Firefighting equipment must be kept in working condition at site
3	Safety/security concerns	Safety of the workers and others will be ensured. Privacy of the neighbors will not be disturbed.
4	Malfunction of utilities	It is proposed to appoint maintenance engineer with technicians like plumber and electrician for smooth operation of utility services.
5	Occupational Health, Safety and Environment	• Regular medical check-ups must be ensured to improve the working condition and efficiency of workers. • Relevant safety devices like belts, gloves and testers must be strictly used by the operators at the work site. • Safety of management, workers and visitors must be ensured. • Observance construction and safety codes must be ensured. • Provision of emergency exits must be ensured.
6	Production of Solid Waste	• Area for solid waste must be reserved within the subject project. • The solid waste must be managed on regular basis. • The domestic waste will be disposed-off in environment friendly way.

5.8- Equipment Maintenance Detail

The subject project is the construction of building for the storage of ambient products by M/s Service Industries Limited. The company will maintain the records for Health Safety & Environment and will hire HSE manager to check and deal with the HSE issues. The company shall maintain PPEs, medical facilities, firefighting Equipment's as fire buckets, fire hydrants and fire extinguishers and records for their periodic fillings or replacement.

5.9- Environmental Budget

The cost which is required to effectively implement the mitigation measures is important for the sustainability of the Project in operation stage of the Project.

Company has been allocated the Environmental Budget for the Training, maintenance and management of Environment is 200,000/- quarterly that will include filling and maintenance of equipment's, restoration, plantation, and availability of PPEs, strategic planning to cope with any emergency situation and formulate the disaster management plan to cope with natural disaster. Any equipment or devices failure or replacement will not be included in this budget.

HSE training	On quarterly basis
Maintenance and management of environment	On regular basis
Maintenance of Machinery/ Equipment	On regular basis
Restoration	As per requirement
Plantation	During the operation phase
Availability of PPEs	During construction and operation
Strategic planning to cope with any emergency	As per policy
Formulate the disaster management plan to cope with natural disaster	As per policy

Environmental Management Plan (EMP) – Storage Godown by M/s Service

S. No.	Environmental Parameter / Element	Mitigation Measure to be Taken During Construction	Mitigation Measure to be Taken During Regular Operations	Responsibility
PHYSICAL ENVIRONMENT				
1	Waste Water	Wastewater from domestic/construction sources will be discharged into septic tanks for treatment before draining into nearby drains.	Wastewater from washing, cleaning, and domestic activities will be treated in septic tanks at PEQS levels. No untreated effluent will be released. Septic tanks will be maintained, monitored, and cleaned periodically. Quarterly environmental monitoring as per EPA-PEQS Rules 2001.	Environmental / HSE Manager
2	Health & Safety	Advance notice to people before work starts. Machinery will not be left unattended. Safe driving practices adopted. Basic health facilities for workers.	Workers' training on health & safety, firefighting, and hygiene. Use of PPEs, first aid, shift rotation, and ventilation. Safety signs, emergency assembly point, firefighting system, clean floors, and safe drinking water provided.	Environmental / HSE Manager

**ENVIRONMENTAL IMPACT ASSESSMENT
M/S SERVICE INDUSTRIES LIMITED**

3	Water Supply	Ensure no construction activity tampers with water supply system.	Ensure water supply system remains intact. Provide safe drinking water to staff and workers.	Environmental / HSE Manager
4	Solid Waste	Construction waste segregated and disposed at designated sites by certified contractors. Waste not accumulated onsite. Solid waste bins used; waste reused for landscaping/road maintenance.	All domestic and project solid waste stored in bins and handed over to contractors. Proper waste management system implemented.	Environmental / HSE Manager
5	Noise	Vehicles tuned, operators trained. Ear plugs provided. Baseline noise level monitoring conducted (Annexure-D).	No activity causing extraordinary noise permitted. Generators placed in acoustic enclosures. PPEs provided. Noise monitoring as per EPA-PEQS Rules 2001.	Environmental / HSE Manager
6	Gaseous Emissions & Dust	Transport of materials as per HSE rules. Dust suppression by sprinkling. Vehicles and equipment tuned and maintained. Ambient air quality monitored (baseline attached).	Limited emissions during operations. Generators used only in emergency with stacks. Dust scrubbers if required. PPEs (masks) provided. Monitoring as per EPA-PEQS Rules 2001.	Environmental / HSE Manager

**ENVIRONMENTAL IMPACT ASSESSMENT
M/S SERVICE INDUSTRIES LIMITED**

7	Soil Erosion	Site mostly free of dense vegetation. Rainwater drainage planned to avoid erosion.	Plantation carried out in consultation with authorities. Rainwater drainage system constructed.	Environmental / HSE Manager
8	Traffic Issues	Regulate number of vehicles to avoid congestion. No parking on road/footpaths.	Designated parking for staff and visitors. No roadside parking permitted.	Environmental / HSE Manager
9	Trash Burning	No trash burning allowed inside or outside site.	No trash burning allowed inside or outside site.	Environmental / HSE Manager
BIOLOGICAL ENVIRONMENT				
10	Flora & Fauna	Site is devoid of protected species.	Awareness programs for protection of fauna & flora. Indigenous plantation. Ban on hunting.	Environmental / HSE Manager
SOCIO-ECONOMIC IMPACTS				
11	Resettlement	No resettlement issues due to project.	No resettlement issues during operation.	Environmental / HSE Manager
12	Change in Culture & Language	Employ local people to preserve culture and improve communication.	Same measure continued for operations.	HR Manager

ENVIRONMENTAL IMPACT ASSESSMENT
M/S SERVICE INDUSTRIES LIMITED

13	Education	Project proponent to initiate educational awareness program.	Educational support and school fee assistance for workers' children.	Proponent
14	Health	Provide first aid facilities and medical checkups for workers.	Commit to first aid, social security, and medical checkups for workers.	Proponent
15	Culture & Norms	Maximum local employment to preserve local culture.	Same measure continued for operations.	Proponent
16	Gender Inequality	Ensure women's involvement in decision-making and equal employment opportunities.	Ensure women's involvement and equal opportunities in suitable roles.	Proponent

Pak Green Laboratory team conducted the monitoring for environmental parameters i.e., Noise level at open plot, Ambient Air, ground water supply, and for waste water from drain. Laboratory reports are annexed

5.9- Proposed Monitoring plan to assess the output of EMP

5.9.1- Aim of Monitoring

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

5.9.2- Objectives of Monitoring

Salient objectives of the environmental monitoring program are as under:

- To ensure effective surveillance of the environmental parameters at various stages of the project development
- To enable the management, undertake the required mitigation measures when needed
- To ensure compliance with the PEQS and legal obligations

5.9.3- Environmental Monitoring Cell (EMC)

EMC of the project undertake monitoring of the Safety, Health and Environmental Aspects. It ensures implementation of EMP and appraises the General management of the unit on fortnightly basis.

5.9.4- Training of Monitoring Staff

Training of the monitoring staff arranged at site and off site. Special cadres will be run about functioning of the project and apparatus including the firefighting and first medical aid.

5.10- Monitoring of Quality

The EMC will arrange monitoring of the quality of air, water, noise and waste water on quarterly or monthly basis from any EPA Certified/approved laboratory if required.

5.11- Monitoring Plan

- The monitoring is carried out in accordance with PEQS.
- Monitoring program is undertaken for compliance of mitigation measures.
- Monitoring for various parameters is done before the construction phase as per direction from EPA.

Following aspects need to be monitored regarding the subject project.

- ✓ Air quality
- ✓ Water quality
- ✓ Noise level
- ✓ Management of utility services including firefighting, water supply, sewerage disposal, electric supply and solid wastes.

M/s Pak Green Laboratories has conducted the monitoring for ambient air quality, water quality and noise at the proposed site for the Environmental Impact Assessment study.

5.12- Proposed EMP Reporting and Reviewing Procedures

To oversee the environmental performance of the project through its lifecycle to enforcing the PEQS an Environmental Monitoring Program should be formulated which ensures effective surveillance of the environmental parameters at various stages of the project development and compliances with PEQS and legal obligations.

HSE manager is responsible for reviewing the performance of the project with respect to the guidelines mentioned in EMP related to following aspects:

- Health and safety
- fire safety arrangements,
- emergency evacuation plan
- emergency preparedness response
- provision of PPEs to workers

Internal audits should be done on biannual basis to check to the project performance with respect to the guideline proposed in EMP Environmental Monitoring data log book should be maintained by the project proponent.

CHAPTER: 06

STAKEHOLDERS PARTICIPATION

Public discussions were held with the inhabitant of the surrounding area. They are quite positive to the project and see the project as growing business and accomplishing towards the steel demands in the area in local and in country as whole. The people observe strong positive impacts regarding employment, business and structural development due to this project. EIA findings depict that people perceive overall positive social and economic impacts by the project. Their attitude towards the project is highly optimistic. Majority of the people are convinced for development in the area and they correlate this progress with the pace of their social mobility. This section deals with the social acceptability of the project. Consultation with the stakeholders is a tool for managing two-way communication between the project proponent and the affected public. Its goal is to improve decision making and build understanding by actively involving individuals, groups and organizations, which have stake in the project. This involvement increases project's long-term viability and enhances its benefits to locally affected people and other stakeholders. It gives the feeling of an ownership to the local population and public indolent is also helpful in smooth implementation and success of the project.

In order to evaluate the socioeconomic and environmental impacts, filed surveys are extremely essential. In addition to the surveys at the preliminary stage, consultation with the community and their active participation plays a vital role in successful implementation of the project. To identity the different types of stakeholders and ascertain their perceptions about the proposed project social survey was conducted. Informal group discussions were also held as an additional tool for obtaining feedback from the stakeholders that are being discussed in the following pages.

6.1 - Objectives of Consultation

Public consultation plays a vital role in studying the effects of the project on the stakeholders and in the successful implementation and execution of the subject project. Public involvement is a compulsory feature of environmental assessment, which leads to better and more acceptable decision making. The objective of the consultation with stakeholders is to help verify the environmental and social issues that have been presumed to arise and to identify those which are not known or are unique to the construction of the proposed unit.

The important general objectives of the consultation process are:

- Information dissemination, education and liaison;

- Informing the stakeholders about the subject project
- Providing an opportunity to local public to raise their views and helping in more sensitive considerations for the formation of mitigation measures for the subject project
- Providing those involved in the planning stage with an opportunity to ensure that the benefits of the proposal are maximized and that no major impacts have been overlooked
- It provides an opportunity to local public to influence the design of project in a positive manner
- Increasing public confidence in front of proponent, reviewers and decision makers
- Identification of problems and needs of the stakeholders and public
- Providing better transparency and accountability in decision making stage;
- Reducing conflicts through early identification of contentious issues and working on them to find acceptable solutions
- Reaction, comment and feedback of stakeholders on project;
- Developing proposal which are truly sustainable;

6.2- Methodology of consultation:

The EIA team carried out public consultations at various locations around the Project Site. The stakeholder's consultation during this phase of the work targeted the project area, administrative and private offices, Govt. offices, shops, etc. near the Project area:

- Selection of the stakeholders for consultation, reconnaissance of the project site and initial discussions with the neighboring factory workers, residents, shopkeepers, drivers etc.
- Environmental consultants and social specialists and documenting the opinions of the stakeholders expressed during the meetings etc.

6.3- Stakeholder identification:

Stakeholders considered at all levels according to the importance of the project. They are at provincial, district and village level. The process of consultation is an ongoing process which continues during the project life cycle and even after the submission of this environmental assessment report and so on. Therefore, three-tier approach was adopted. Stakeholders were identified, categorized and consulted at provincial (EPD Punjab, Irrigation department, Agriculture department, Wildlife department etc.), district level (EPD, Irrigation department, Agriculture department, Wildlife department etc.) & village level (Direct & indirect affectees and Locals)

Consultations with government, provincial and district level departments were carried out through meetings and visits while consultations with locals, villagers, neighbors and directly affected peoples were under taken during baseline study of the area.

Consultations were held with the followings;

6.4- District Level:

1. Environmental Protection Department, Lahore
2. Agriculture Department, Lahore
3. Forest Department, Lahore
4. Wildlife Department, Lahore
5. Irrigation Department, Lahore

6.5- Local level

1. Neighboring workers
2. Shopkeepers
3. Traders
4. Drivers

6.6- Consultations:

A series of public consultations were required to get the feedback/ concerns of the different departments, industries, local public, PAPs, and general public residing near the subject area.

6.7- Proponent

Possible impacts and mitigation measures related to the proposed project were discussed with the project proponent and management. They assured to take all suggested mitigation measures to control any discrepancy arose by the project and to make the project environmentally friendly.

6.8- Responsible Authority

Management of storage of petroleum products Methyl Ethyl Ketone and Toluene is the responsible authority to take all measures throughout the life cycle of the project.

6.9- Other departments and agencies

For the impact analysis detailed meetings were held with the management of petroleum products, local community, education institutes, health institutes, hospital and NGOs. Issues were discussed that may affect the environment and also the implementation of proposed

project. All possible mitigation measures were considered and incorporated in the Environmental Management Plan.

Scoping sessions, focused group discussion and way side consultations were held with the relevant stakeholders in the area. The purpose of such consultations is to obtain the feedback from the relevant persons.

6.10- Environmental Practitioners and Experts

Team of M/s Pak Green visited the project site, had discussions with stakeholders and consulted with the local people to evaluate the project socio-economic impacts. People of the area belong to different professions like mostly belong to employment, own businesses, doctors, some in abroad, in Army, teaching, in agriculture, etc. Women were also consulted for their point of view regarding the betterment of the area by this project, some of them communicated but according to social value of the area they mostly hesitate to communicate comfortably and get pictured. People were provided with the massive information about the project and have positive remarks regarding the project development.

6.11- Affected & Wider Community

There is no affected community present in the radius of our study area. PGEE team has consulted with the inhabitants of the area. They provided positive remarks regarding the proposed project. Stakeholders' participation Performa's and socioeconomic questionnaire were get filled by the inhabitants to evaluate the project socio-economic impacts.

6.11.1- Sample size

15 sample sizes were selected by the team of consultants for conducting the socioeconomic survey. Questionnaires are attached as Annexure.

6.11.2- Statistical Analysis

SPSS 19.0 has been used for the statistical analysis of the data collected during the visit of study site villages through questionnaires.

6.11.3- Result and discussion

Local people were asked their opinion about the project and the possible pollution that maybe caused due to the project. Following results were obtained from the project;

6.11.4- Discussion

The respondents of the survey were asked about the most common diseases in the area. Most common disease in the area was Flu that was the response of 60 % people 27 % people gave the response water borne diseases as the most common disease in the area.

6.11.5- Knowledge about environment

How many participants have
Knowledge of Environmental Pollution

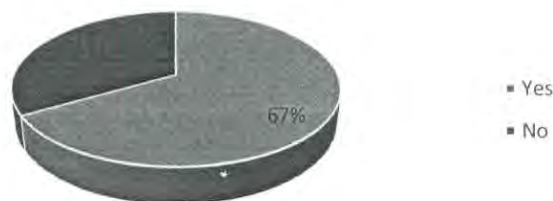


Figure- Knowledge about environment

6.11.6- Discussion

67 % of the respondents have the knowledge about the environment pollution, this is because most of the people living are educated and aware about their surroundings.

6.11.7- Opinion regarding project being source of pollution

Source of Env Pollution



Figure Opinion regarding project being source of pollution

6.11.8- Discussion

The respondents were asked about their opinion the project being a source of pollution. 67% person people said no in response to this question and 33% people said yes. As there are industrial unit already present near the project site this project will not cause any significant amount of pollution, furthermore effluent treatment and air control devices will be installed within the project facility.

6.11.9- Opinion regarding increase in job opportunities



Figure Opinion regarding increase in job opportunities

6.11.10- Discussion

67% people believed that this project will increase job opportunities in the area and 33% people did not think this project will increase job opportunities of the area. 10, 000-12,000 will be employed during the operation phase of the project.

6.11.11- Type of impacts due to project

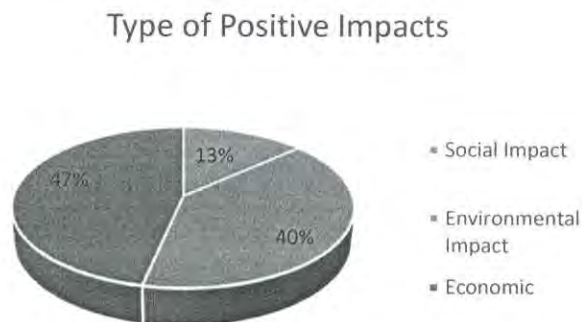


Figure Type of impacts due to project

6.11.12- Discussion

The respondent was asked which type of impacts they believed will be caused due to the project 40% people believed that positive impacts related to environment as the proponent ensured that he will manage air and water pollution caused by the project. 47% believed that Economic impacts will be caused due to the project as the project will provide job opportunities to the locals. While 18% of the people believed that socially positive impacts will be caused due to the project as project will uplift the living standards of the area.

6.11.13- Opinion regarding project



Figure Opinion regarding project

6.11.14- Discussion

All the survey respondents were in the favor of the project as the project will provide huge amount of job opportunities to the locals and uplift the living standards of the people living in this area.

CHAPTER: 07

CONCLUSION AND RECOMMENDATIONS

Based on the study conducted for Environmental Impact Assessment (EIA) of the project, the following conclusions are made:

7.1 - CONCLUSIONS

- The EIA study reveals that the project is economically viable, socially acceptable and environment friendly.
- On completion of the project, the project proponents will sale products in local market.
- It will generate additional jobs during construction and operation phases.
- Project is environmentally friendly and pollution free
- The proponent has committed to implement the project in the environment friendly manner.
- Project proponent has ensured to install the waste water treatment system to treat the domestic waste water prior to discharge into drain or use for irrigation purposes.
- Project proponent has ensured to adopt the proper solid waste management system.
- Proponent has ensured to adopt all the necessary measures to control any impact if resulting from the project.
- Project proponent has ensured to provide the safe drinking water to all workers and staff.
- The proponent has committed to implement the project in the environment friendly manner.
- Proponent of storage godown intends to register the project with local Government.
- Project Proponent has already prepared and implemented very comprehensive Emergency Preparedness and Response Standard Operating Procedures.
- Project Proponent has already prepared and implemented very comprehensive Security and Fire Fighting Standards Operating Procedures.

7.2 - Main environmental issues are as under:

- Noise during operation and construction.
- The Domestic solid waste.
- Sewage during operation and construction phase.
- Gaseous emissions during construction and operation phase.
- Health and safety issues during construction and operation phase.

7.3 - RECOMMENDATIONS

- In view of the comprehensive screening process and findings of the present study there is no need of conducting further investigations.
- Tree plantation inside the unit and near the unit is recommended.
- Wet scrubbers will be installed at stacks to achieve PEQS.
- The untreated wastewater will not be reused for irrigating the vegetation and lawns or drained out into drain without treatment.
- Any seepage and leakage will be controlled through proper mitigation measures
- Sound proof room will be constructed for generator to control the sound of it.
- Water treatment system will be installed in case of any waste water discharge
- Use of narcotics and smoking will be prohibited during working, filling or handling of fuel.
- PPEs will be provided to workers such as gloves, masks, etc.
- Proper solid waste management system will be adopted
- Safety signs, safety boards, exit arrows etc. will be placed on site.
- Machinery will never be left in running condition.
- First Aid measures, health & safety Equipment (PPEs) will be provided to workers.
- Fire Fighting equipment & system will be installed in case of fire hazards.
- Floor will be kept clean without slippery to avoid any hazard.

- Electric wires, D.Bs will be kept covered & closed
- Shift Rotation, proper ventilation will be provided to workers in case of thermal stress.
- High standards of bio-security and safety will be enforced during operation stage. Safety of the workers will be top priority for the management.
- The management of subject project will continue to assist the local communities as a corporate/social responsibility.

The present EIA report is enough to meet the administrative and legal framework. Therefore, the environmental approval may be accorded for the present project.

Annexure

TORs

Terms of Reference (TOR)

Environmental Impact Assessment (EIA) for the Proposed Extension by Constructing Petroleum Products Storage Godown At Khewat No. 17, 20, 44, 99, 124, 130, 130, 142, 144, 148, 156, 263, Khatooni No. 17, 20, 100, 105, 138, 144, 148, 153, 156, 158, 162, 170, 276, Mouza Adowal, Tehsil & District Gujrat

1. Introduction of the Project

This document outlines the Terms of Reference (TOR) for conducting the Environmental Impact Assessment (EIA) for the **by Constructing Petroleum Products Storage Godown At Khewat No. 17, 20, 44, 99, 124, 130, 130, 142, 144, 148, 156, 263, Khatooni No. 17, 20, 100, 105, 138, 144, 148, 153, 156, 158, 162, 170, 276, Mouza Adowal, Tehsil & District Gujrat**

The subject project involves the proposed extension of construction of a raw chemical products storage godown over an area of 359 Kanals (45 acres) with a storage capacity of 88604.38 Liters. It will be used to store materials like lubricants and oils under ambient conditions. The estimated project cost is PKR 50 million, and the facility will include basic safety and storage infrastructure.

This EIA will assess the project's potential environmental impacts during the **construction and operation phases** and propose mitigation measures to ensure compliance with the **Punjab Environmental Protection Act, 1997 (amended 2022)**.

2. Name and Address of the Proponent

Proponent Details

- **Proponent Name:** Arif Saeed
- **Address:** GT Road Gujrat
- **CNIC:** 35202-2835725-9

3. Objectives of the EIA Study

The primary objectives of the EIA study are:

1. Regulatory Compliance:

- To ensure that the project complies with the environmental regulations outlined in the Punjab Environmental Protection Act, 1997 (amended 2022) and other applicable guidelines.

2. Environmental Impact Assessment:

- To identify and evaluate potential environmental impacts associated with the project during the construction and operational phases.

3. Mitigation Measures:

- To propose effective mitigation measures to minimize or eliminate adverse environmental impacts.

4. Environmental Management:

- To develop an Environmental Management Plan (EMP) for ongoing monitoring and management of environmental aspects throughout the project lifecycle.

5. Sustainability:

- To promote the sustainable use of resources and the adoption of eco-friendly practices by using renewable biomass fuels.

4. Project Impacts and Mitigation Measures

4.1 Anticipated Environmental Impacts

The following potential impacts will be assessed:

Construction Phase:

- **Air Quality:** Dust emissions and particulate matter generation.
- **Noise Pollution:** Noise from construction activities and machinery.
- **Solid Waste:** Generation of construction debris.
- **Water Quality:** Contamination from construction runoff.

Operational Phase:

- **Air Quality:** Minor emissions may occur from transport vehicles used for loading and unloading.
- **Water Pollution:** Accidental spills of oils or lubricants could contaminate surface or groundwater.

- **Solid Waste:** Small amounts of packaging waste and contaminated materials may be generated.
- **Noise Pollution:** Low to moderate noise may result from vehicle movement and handling operations.
- **Occupational Health & Safety:** Risks include fire hazards, chemical exposure, and slip incidents.

4.2 Proposed Mitigation Measures

To address the anticipated impacts, the following mitigation measures will be proposed:

Construction Phase:

- **Air Quality:** Regular sprinkling of water, covering stockpiles, and proper transportation practices.
- **Noise Pollution:** Installation of noise barriers and maintenance of equipment.
- **Solid Waste Management:** Segregation, recycling, and proper disposal of construction debris.
- **Water Quality:** Installation of sedimentation pits to manage runoff water.

Operational Phase:

- **Air Quality:** Limit vehicle movement and ensure regular maintenance of transport vehicles.
- **Noise Pollution:** Restrict operations to daytime and maintain machinery to reduce noise.
- **Water Pollution:** Store chemicals in sealed containers and install spill containment systems.
- **Solid Waste Management:** Segregate, label, and dispose of waste according to hazardous waste guidelines.
- **Occupational Health & Safety:** Provide PPE, fire safety systems, and regular safety training.

5. Scope of Work

The EIA study will include:

- **Baseline Environmental Assessment:** Collection and analysis of data on air, water, noise, soil, and biological resources in the project area.
- **Stakeholder Consultation:** Engagement with local communities, regulatory bodies, and other stakeholders to identify concerns and address them in the study.
- **Environmental Impact Assessment:** Evaluation of potential impacts on the physical, biological, and socio-economic environments.
- **Development of an EMP:** Preparation of an Environmental Management Plan, including monitoring mechanisms and reporting protocols.
- **Documentation and Reporting:** Submission of a detailed EIA report to EPA Punjab for review and approval.

6. Reporting and Submission

The consultant will prepare and submit a comprehensive EIA report to the proponent and relevant authorities. The report will include:

1. Executive Summary.
2. Description of the Project.
3. Regulatory Framework.
4. Baseline Environmental Conditions.
5. Environmental Impacts and Mitigation Measures.
6. Environmental Management and Monitoring Plan (EMP).
7. Stakeholder Participation.
8. Conclusion and Recommendations.

This TOR sets the foundation for ensuring a thorough environmental examination, aligning with regulatory requirements and promoting the sustainability of the proposed biomass boiler project.

CLIENT RESPONSIBILITY

- Proponent will be responsible to nominate a senior officer as Coordinator who will be responsible for all coordination activities as required by the Consultants and to whom the Consultants will refer for information and assistance. All correspondence between the Consultants and the CLIENT will be routed through the Coordinator.
- Consultants will require free access to all relevant information available with the Client
- The report developed for the CLIENT shall be the property of the CLIENT and the Consultants shall adhere to confidentiality morally as well as legally.
- Client will provide relevant documents as:
 - Signed application on company letter head
 - Pay Order in favor of DG EPA as review fee 30,000/-
 - Undertaking on Stamp Paper as per EPA Format
 - Affidavit on Stamp Paper as per EPA Format
 - Copy of NIC of proponent
 - Duly filled and Sign Schedule IV
 - Details of firefighting Equipment's
 - Layout Maps of the project
 - Other NOCS/Certificates from other concerned departments (if any)
 - Any other relevant documents/details required by the consultant.

Signatures: _____

Environmental Consultant
Pak Green Enviro-Engineering
Pvt. LTD.

Signatures: _____

Client: Mr. Arif Saeed
M/s Service Industries Limited

Annexure

SECP Document

A071962



SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN
[DUPLICATE]
CERTIFICATE OF INCORPORATION

No.130-49 of 1956-1957

I hereby certify that SERVICE INDUSTRIES LIMITED is this day incorporated under the Companies Act, VII of 1913 and that the company is Limited, as a Private Company Limited by shares.

Given under my hand at Lahore this 20th day of March, 1957 (one thousand nine hundred & fifty seven).*

Fee Rs. 581/- (Rupees five hundred & eighty one only).

[Signature]
26/may/2020

(-Sd-)

(Assistant Registrar)

Joint Stock Companies, Lahore Region



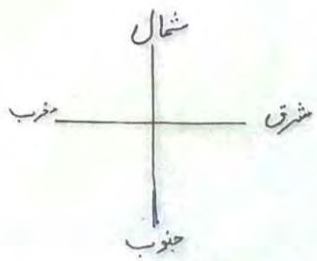
[Signature]
(SYED IFTIKHAR UL HASAN NAQVI)
Additional Registrar of Companies

[This is a duplicate certificate issued today on 11-03-2020 by me]

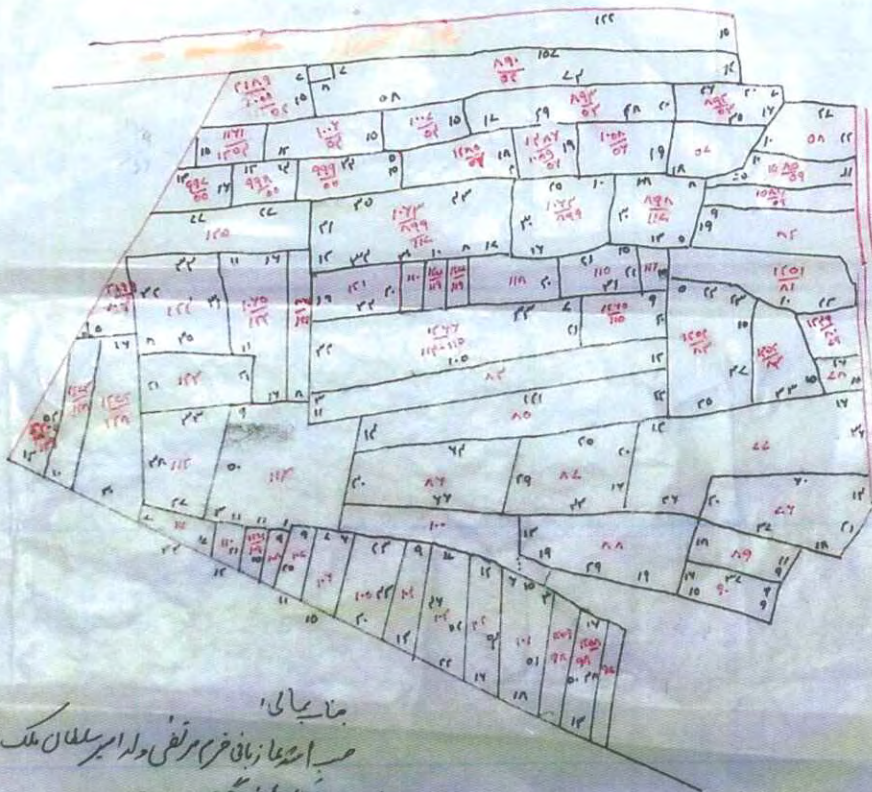
LA-ARL/18076-#11/3/2020

Annexure

AKS Shajra & Land Docs



نقل عکس شکر و یک کلبه و مضافه عادی مال عسکری ضلع محمد نجر



جانب پالی
مب استعاضاتی فرم مرتضیٰ ولد امیر سلطان ملک / م / آخر
سوی آئند سکونت گزید
نقل مطابق اصل ہے اور مصدقہ جہاد مال پالی

غلام فرید
مستحق
مستحق

ریاست ۲۵۹
21-3-17

۱	۲	۳ (الف)	۴ (ب)	۵ (ج)	۶ (د)	۷ (هـ)	۸ (و)	۹	۱۰
نام مالک	نام مالک معتمد والدہ	کوائف مالک	نام مالک	نام مالک	نام مالک	نام مالک	نام مالک	نام مالک	نام مالک
۱۷	۱۷	سردیس اندر سردیس	سالم	۴-۱۸	۱۰۱	۱۸-۴	۱۰۱	۱۸-۴	۱۰۱
۲۰	۲۰	سردیس اندر سردیس	سالم	۳۵-۶	۳۵-۶	۳۵-۶	۳۵-۶	۳۵-۶	۳۵-۶
۹۴	۱۰۰	سردیس اندر سردیس	سالم	۷-۱۹	۷-۱۹	۷-۱۹	۷-۱۹	۷-۱۹	۷-۱۹
۹۹	۱۰۵	سردیس اندر سردیس	سالم	۲-۱۳	۲-۱۳	۲-۱۳	۲-۱۳	۲-۱۳	۲-۱۳
۱۲۴	۱۳۸	سردیس اندر سردیس	سالم	۳-۸	۳-۸	۳-۸	۳-۸	۳-۸	۳-۸

130	144	سرور حسن اندلسی مذکور	هفت سالم	16-1	مقبوضه سرور حسن اندلسی عمید مجرات	77	1-16	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
134	148	سرور حسن اندلسی مذکور	هفت سالم	3-11	مقبوضه دانت	قلم 2	11-3	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
139	153	سرور حسن اندلسی مذکور	هفت سالم	17-8	مقبوضه سرور حسن اندلسی عمید مجرات	قلم 3	17-10	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
142	156	سرور حسن اندلسی مذکور	هفت سالم	7-7	مقبوضه سرور حسن اندلسی عمید مجرات	قلم 3	7-7	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
144	158	سرور حسن اندلسی عمید مجرات مذکور	هفت سالم	13-7	مقبوضه دانت	113	13-7	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
148	162	سرور حسن اندلسی مذکور	هفت سالم	12-9	مقبوضه سرور حسن اندلسی عمید مجرات	قلم 4	12-9	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	
156	170	سرور حسن اندلسی مذکور	هفت سالم	3-15	مقبوضه سرور حسن اندلسی عمید مجرات	102	3-15	مقبوضه
		۳ (ب) قومی شایقی کاروانبر					سالم	

[illegible][illegible]

SERVICE INDUSTRIES LIMITED



HEAD OFFICE
Service House
2, Main Bulevard
Lahore-54662 (Pakistan)

Tel: PABX
5751000 to
5751050
Fax: 5711077
5712109
5710593

The Deputy Commissioner,
Gujrat

Ref: SIL-G/IR/2/2021
Date: 13-Mar-2021

Subject: Submission of Land documents

NO (P)

Dear Sir,

In continuity of our application for provision of sanctioned building plan of Service Industries Ltd, we are submitting you below documents for your review and further proceeding at your end.

- Copy of conveyance Deed Dated: 3-Sep-1978
- Copy of Award # 1, Dated: 16-Mar-1961
- Copy of Award # 14 Dated: 12-Oct-1964
- Copy of Fard, Land Measuring 357K-12M
- Copy of Land confirmation by DC Gujrat to Secretary -- BOR Lahore
- Copy of Page # 23, 24 and 54 of Gujrat ODP 1999-2024

Now it is very humbly requested you by accepting these documents, sanctioned building plan of service industries ltd my very kindly be issued to the applicant

For and on behalf of

Service Industries Ltd


Zeeshan Iqbal
Manager Industrial Relations



OFFICE OF THE
MUNICIPALITY OFFICER
PUNJAB FOWARA CHOWK
GUJARAT
Phone No. 2160151
No. 2 Dated 01/01/2017

To, Shri. B. S. Chaudhary
Shri. B. S. Chaudhary

Subject: Demand Notice

Reference on the subject noted above.
It is inform you that the following building for conversion fee assessment officer official, according to the schedule rate for financial year 2017-18 rules 2009.

929887
@ 15/2/2017
Shri. B. S. Chaudhary
Shri. B. S. Chaudhary

Shri. B. S. Chaudhary
Shri. B. S. Chaudhary
Shri. B. S. Chaudhary

In the light of above assessment, you are required to pay the conversion fee of amounting to Rs. --- in MT account No. PFC/08/001/03 Punjab Fowara Chowk, Gujarat. If at any later stage it is found that the amount deposited less than the actual then you will be responsible for the same.

Collecting Officer Official
MO (D) Branch,
MO, Gujarat

Municipal Officer (Training)
Municipal Corporation
GUJRAT

CS, 10014 = 374 753

FORM L.A. & C.R. 30
RECEIPT FORM

(See Rule 25)

Form CS, 10014 Dated 20-5-17
Shri. B. P. Singh (Signature)
Shri. B. P. Singh (Name)

Amount of rupees 3149435/-
Three Lakhs Fourteen Thousand Nine Hundred and Thirty Five Rupees only

Amount of Rs. 3149435/-
Three Lakhs Fourteen Thousand Nine Hundred and Thirty Five Rupees only

37530874 16.5.17
12227821
 (Office Stamp Showing Name and Designation)

The original will be given to the payer and the duplicate shall be retained for checking by the audit.

Online NTN/STRN Inquiry

Printed On: 3/19/2021 10:08:26 AM

Registration No 0222346
Reference No 0222346-5
STRN 0301640000173
ST Registered On 01-MAY-92
Name SERVICE INDUSTRIES LTD
Category Company - Company formed and registered under the Companies Ordinance, 1984 or any other law repealed thereunder
PP/REG/INC No. 0000864
Email ija***mad***rvis.com
Cell 00923**493**63
Address Servis House, 2-Main, Gulberg, Lahore Gulberg Town
Registered On 30-OCT-1995
Tax Office LTO LAHORE
Registration Status Income Tax: Active , Sales Tax: OPERATIVE

Sr.	Business/ Branch Name	Business/ Branch Address	Principal Activity
1	Service Industries LTD, Unit 2, 10KM Sheikhpura Road, Muridke	2ND FLOOR, SERVIS HOUSE, 2-MAIN GULBERG, Lahore Gulberg Town	152000- Manufacturing/Manufacture of footwear/Manufacture of footwear
2	Service Industries Ltd., Unit 1, 10 KM Sheikhpura Road Muridke	Service Industries Ltd., Unit 01, 10 KM, Sheikhpura Muridke	477100-Wholesale and retail trade; repair of motor vehicles and motorcycles/Retail sale of other goods in specialized stores/Retail sale of clothing, footwear and leather articles in specialized stores
3	SERVICE INDUSTRIES LTD., G.T. ROAD GUJRAT	26KM MULTAN ROAD, NEAR SHAMSHAD HOUSE, OPP. MURAKA TELEPHONE EXCHANGE, LAHORE, Lahore Iqbal Town	221100- Manufacturing/Manufacture of rubber products/Manufacture of rubber tyres and tubes, retreading and rebuilding of rubber tyres

Annexure

Certificate Of Waste Disposal

A-AZIZ & SONS -1

DEALS IN ALL KIND OF SCRAP

NTN NO: 1179785-1

Proprietor

Licenses No/ 21AD/EPA/GRT/2022

Ref No: _____

Date: _____

Aman Ullah

0333-6040457

0302-6266082

0300-0338004

CERTIFICATE OF DISPOSAL

Source: Service Industries Limited FW Gujrat
Location: G.T Road Gujrat
AAS-1 Waste Note No: 19030

DETAILS OF WASTE

Description

Leather Waste	100.12 Kg
Cardboard Waste	4.65 Kg
Chemical Waste	316.20 Kg
Plastic Waste	19.22 Kg
Mechanical Waste	5.52 Kg
Medical Waste	0.120 Kg
Electrical Waste	66.0 Kg

Total Weight Received 511.83 Kg

Date of Receiving the Waste: 14-02-2024

Completion of Work: 15-02-2024

COMMENTS

Total Material is disposed of successfully.

(I certify, on behalf of A-AZIZ & SONS, relative to the waste material described in this document, that the material was handled and subsequently disposed of in accordance with all applicable local rules and regulations of EPA Punjab.



HSE Manager

Bankers: UBL. BOP. Bank Alfalah. Meezan Bank

Address: Umer Farooq Town Link Shadiwal Road Gujrat



Service Industries Limited

Occupational Health, Safety & Environment Policy Statement & Commitment

Service Industries Limited Footwear Gujrat a leading Footwear manufacturer values employees' health and safety and affirms that its employees have the right to work in a safe, secure, and healthy environment. SIL ensures that its infrastructure, assets, and operations are managed in accordance with applicable HSE, emergency response, and sustainability requirements as well as additional compliance and voluntary obligations.

In fulfilment of this commitment, SIL shall maintain a continuous effort to:

- Exhibit visible leadership at each level and ensure necessary resources, trainings and infrastructure are in place for aiming HSE excellence.
- Ensure that our entity meet or exceed applicable HSE laws, regulations, standards and other requirements.
- Protecting the environment, preventing pollution, and improving the environmental footprint.
- Set objectives and targets to safeguard humans & assets, protect environment and conserve energy & natural resources.
- Ensure that Contingency Plans are in place for business continuity.
- Providing safe and healthy working conditions to prevent work-related injuries and illness.
- Controlling occupational health and safety risks and hazards, applying the hierarchy of controls.
- Supplying appropriate protective equipment to provide employees with a healthy and safe working environment.
- Improve HSE system by continually focusing on Leading Indicators and disseminating lessons learned from Lagging Indicators.
- Assess HSE KPIs regularly & share performance accordingly.
- Promoting and supporting employee and leadership participation in IMS activities.
- Comply with **Customers/Vendors Code of Conduct** to which SIL Footwear Gujrat subscribe.

Through observance of this policy, we aim to assist in protecting the environment and the overall wellbeing of our stakeholders, specifically our employees, clients, shareholders, contractors, customers, and communities.



Asif Hussain
Business Head

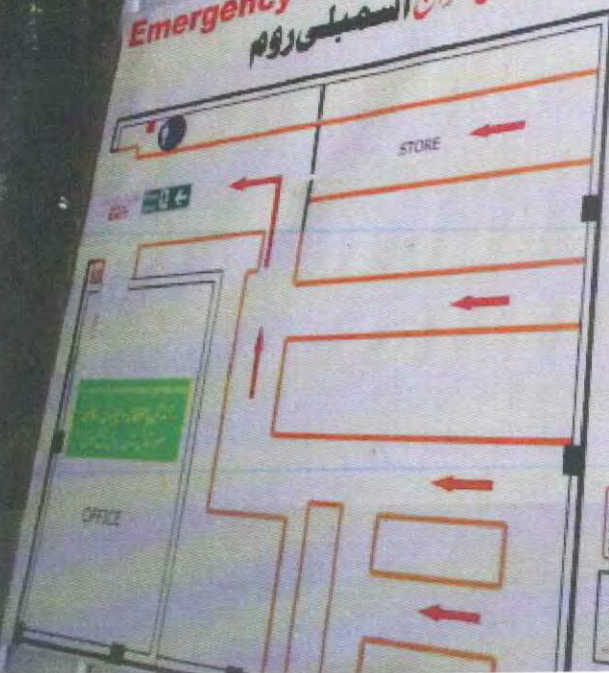
Annexure

Evacuation Plan

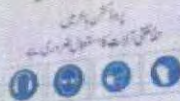
Emergency Evacuation Safety Plan

خاکہ برنگائی اخراج اسامبلی روم

Servis
Service Industries Limited



SAFETY STARTS WITH
yQu!



'OUR GOAL'
NO
ACCIDENTS

NO
SMOKING



انجمنیت نامہ نمبر	
321	نور علی
232	سید علی

ایمر جنسی نمبر	
18	نور علی
1122	نور علی
1122	نور علی
9290009	نور علی
3510751	نور علی
9280104	نور علی
3713503	نور علی
3532161	نور علی
(083)	نور علی

ناتراکشن

ناتراکشن کے تحت تمام عملیات کو مکمل طور پر کنٹرول کیا جائے گا۔

29/06/2022 10:41

Annexure

Domestic Wastewater Discharge Management

Compliance Report: Domestic Wastewater Discharge Management

Introduction

Service Industries Limited is one of the largest footwear manufacturing industries in Pakistan. The footwear division comprises of various manufacturing processes ranging from mixing of rubber compound to molding of Ethyl Vinyl Acetate as well as Poly Urethane soles. The objective of this report is to highlight the fundamentals of wastewater management such that this very literature can be of assistance for legal and administrative purposes

Project Description

The water that is used for toilet purposes is termed as 'black water'. Disposal of black water is of critical importance in any industry due to their risks associated with hygiene as well as health and safety in an indirect manner. The Service Footwear Industry makes sure that smooth procedure must be carried out in discharging the wastewater out of the factory into the drainage which is currently being managed under the administration of Town Municipal Authority (TMA). The black water brought to a single location (pit) through pipelines. This water is then pumped through 15 Horse Power (HP) sludge pumps towards the drain at the flow rate of approximately 1080 Gallons per minute (GPM).

Wastewater Characteristics

➤ Volume:

According to literature, a single human consumes about 185L in 24 hours. In theoretical terms, if it is assumed that 2500 workers utilize the washrooms in a day, then the total volume of black water become about 122,200 Gallons.

In practical terms, the operation timing of sludge pumps is the best indicator of the water being wasted due to toilet related activities. Typically, a single 15HP sludge pump is sufficient to pump out the entire blackwater for the day. The pumping of the discharge water is intermittent and it has been calculated that the sludge pump runs about 1 hour in whole day. Since the capacity of pump is already established, the volume of discharged water can be calculated as;

$$\text{Volume of Discharged Water} = 1080 * 60 = 64800 \text{ Gallons/day}$$

➤ Type of Wastewater:

The nature of discharge is mostly sanitary wastewater. During rainfall, the rainwater also adds up into the pool thereby increasing the volume in certain occasions. In order to efficiently drain the mix of black and rain water, two pumps (3HP and 15HP) are also installed in parallel. The Biological Oxygen Demand (BOD) of blackwater is very high, proving a significant amount

organic matter in it. The blackwater also contains considerable amount of Nitrogen and Phosphorus.

Compliance

The Service Industries Limited, being a reputable corporate group, clearly state and affirm its intentions to comply with all the regulations associated with TMA for the appropriate and proper discharge of wastewater into their drainage system such that no conflict of interest shall occur due to this process. The company ensures full cooperation with the governmental body in this situation.

Conclusion

This report has outlined the key aspects of wastewater management at Service Industries Limited, focusing on the discharge of black water from toilet facilities. The findings highlight a daily volume of approximately 64,800 gallons, primarily composed of sanitary wastewater with high BOD and significant nitrogen and phosphorus content. Rainwater occasionally mixes with the black water, necessitating additional pumping capacity.

In conclusion, Service Industries Limited is committed to responsible wastewater management and seeks continued permission from the Town Municipal Authority (TMA) to discharge black water into their drainage system, adhering to all regulations and cooperating fully with any monitoring or inspections. This report serves as a foundation for ongoing discussions with the TMA and ensures transparency in the company's wastewater practices.



03 Nov 2016

NO OBJECTION CERTIFICATE

A/O. Dated: 10/11/2016

This is to certify that Tehsil Municipal Administration, Gujarat has no objection to Service Industries Ltd. disposing of their effluent water into the drain situated at GT Road, Gujarat subject to compliance with all relevant environmental regulations and guidelines.

We have thoroughly assessed the proposed disposal of effluent water by Service Industries Ltd. into the aforementioned drain and have found that it meets the necessary criteria for environmental safety and public health standards. Additionally, we have ensured that the disposal process will not pose any significant risk or harm to the surrounding environment or community.

Service Industries Ltd. is advised to adhere strictly to all applicable laws, regulations and guidelines governing the disposal of industrial effluent water. Any deviation from these regulations may result in the revocation of this No Objection Certificate.

For any further inquiries or clarifications, please feel free to contact our office.

Sincerely,

Tehsil Municipal Administration, Gujarat

Chief Officer

Tehsil Municipal Administration

Annexure

Other Relevant NOC



GOVERNMENT OF THE PUNJAB
ENVIRONMENTAL PROTECTION AGENCY
National Hockey Stadium, Gate No. 10
Ferozepur Road, Lahore



NO. DD (EIA)/EPA/F-128(IEE)1214/2016/13
Dated: 03 /01/ 2017

To

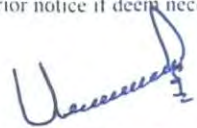
Mr. Ghulam Muhammad,
Proponent.
M/s Service Industries Limited (Warehouse / Godown)
H. # 8/10, Area 4-D, Nazimabad,
Karachi.

Subject: **DECISION OF EPA PUNJAB FOR THE PROJECT OF "CONSTRUCTION OF WAREHOUSE / GODOWN FOR STORAGE OF FOOTWEAR, AT SERVICE INDUSTRIES LIMITED, G.T. ROAD, GUJRAT"**

1. Description of Project: Construction of Warehouse / Godown for storage of Footwear over an area of 101970 sft at Service Industries, Gujrat.
2. Location of Project: Service Industries, G.T. Road, Gujrat.
3. Date of filing of IEE: 04.03.2016.
4. EPA Punjab has reviewed the Initial Environmental Examination Report (IEE) and considered Site Inspection Report received from District Officer (Environment), Gujrat vide letter No. 4087/DO(E)/E, A/GRT dated 11.04.2016. EPA Punjab has also considered the recommendations of Committee of Experts (Meeting dated 23.11.2015), recommendations of EA Committee (Meeting dated 14.12.2016) and other relevant record.
5. Environmental Protection Agency, Punjab accords approval for construction / installation of your aforesaid project subject to the following conditions:
 - i. The proponent shall ensure compliance of Punjab Environmental Quality Standards (PEQS).
 - ii. The proponent shall follow building by laws and the construction plan approved by the competent authority including seismic, structural and geotechnical analysis.
 - iii. Height of the building shall be in accordance with the plan approved by the Competent Authority.
 - iv. Camping sites shall be located at suitable distance away from any settlement to avoid disturbance to the local people. Sewage generated from camping sites shall be treated in septic tanks. These shall be constructed at a suitable distance from any permanent or seasonal water source. Septic tanks shall not be located in the areas where high ground water table exists.
 - v. Mitigation Measures suggested in the IEE Report and Environmental Management Plan (EMP) shall be strictly adhered to minimize any negative impacts on soil, ground water, air and biological resources of the project area. The proponent shall depute staff to monitor compliance of EMP.
 - vi. Monitoring shall be carried out during the entire period of the project activities. Monitoring reports of the whole operation shall be submitted to EPA, Punjab on monthly basis.
 - vii. The proponent shall not discharge untreated wastewater and shall not inject waste water into underground water.
 - viii. The proponent shall ensure that strict and efficient health and safety measures are in place for protection of workers backed by a comprehensive emergency response system while working on super structure.
 - ix. The proponent shall dispose of solid waste in a proper scientific way.
 - x. The proponent shall ensure safety of the surrounding buildings, community and workers during excavation of foundations.
 - xi. The proponent will care about noise issues during construction and operation stage of the project.
 - xii. The proponent shall take measures for rain water harvesting in the building design.
 - xiii. The proponent shall not place the construction material openly.
 - xiv. The proponent shall avoid the disturbance of the traffic flow due to heavy traffic during construction and operational phases.

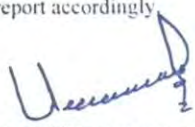


- xv. The proponent shall plant at least 1000 trees of minimum height of 6-7 feet in consultation with the District Officer (Environment).
- xvi. The proponent shall appoint Environmental manager (having relevant qualification and experience) for the project and shall convey his name along with his complete Mailing Address and Phone Numbers.
- xvii. The proponent will make proper parking arrangements during and after construction.
- xviii. The set back area shall be kept clear and there shall be no encroachment.
- xix. The proponent will install standby power generator (if required) adopting sound proofing techniques and it shall be equipped with chimney with proper height to discharge the hot gases / smoke.
- xx. The proponent shall do proper landscaping after completion of the project.
- xxi. The design of the building shall be environmental friendly and the proponent will use techniques to make the building environmental friendly and energy efficient.
- xxii. The proponent shall provide a copy of this letter and a copy of Initial Environmental Examination (IEE) Report to the contractor for his information and compliance of conditions / measures suggested in these documents in letter and spirit.
- xxiii. The proponent shall redress the objection / concerns of neighbours / stakeholder on priority basis (if any at any stage).
- xxiv. The proponent shall not store hazardous flammable material and shall be responsible in case of any accident.
- xxv. The proponent shall provide proper fire fighting arrangements and emergency exist in the building and shall obtain clearance in this respect from the Director General, Rescue 1122 prior to the commencement of construction work.
- xxvi. The proponent shall follow the SOPs regarding dengue larvae eradication and shall ensure removal of stagnant water on daily basis.
5. The proponent shall be liable for correctness and validity of information supplied to this department by the environmental consultant.
6. The proponent shall be liable for compliance of Regulations 13, 14, 18 and 19 of IEE/EIA Regulations, 2000, regarding approval, confirmation of compliance, entry, inspections and monitoring.
7. This approval is accorded only for the construction phase of the project. The proponent shall apply for confirmation of compliance under Regulation 14 of IEE / EIA Regulation, 2000 by submitting Environmental Management Plan for operational phase along with compliance status report of the Environmental Approval of the construction phase of the project.
8. Any change in the approved project shall be communicated to EPA, Punjab and shall be commenced after obtaining the approval.
9. This approval shall be treated as null and void if all or any of the conditions mentioned above, is/are not complied with. This approval does not absolve the proponent of the duty to obtain any other approval or consent that may be required under any law in force and is subjudice to legal proceedings in any legal fora / court.
10. This approval shall be valid (for commencement of construction) for a period of three years from the date of issue under Regulation 17 of IEE / EIA Regulations, 2000.
11. This approval can be withdrawn at anytime without any prior notice if deem necessary in the public / national interest.


 ASSISTANT DIRECTOR (EIA)
 for Director General, EPA, Punjab
 Ph: (042)99232228 26/3/17

NO. & DATE EVEN.

A copy is forwarded to District Officer (Environment), Gujrat w.r.t his letter No. 4087/DO(E)/EPA/GRT dated 11.04.2016. He is requested to ensure compliance of the conditions mentioned in the Environmental Approval and to furnish compliance status report accordingly.


 ASSISTANT DIRECTOR (EIA)
 for Director General, EPA, Punjab
 26/3/17

Annexure

Lab Reports and Validations



LAB 208
17025



ENVIRONMENTAL MONITORING & ANALYSIS REPORT

SERVICES INDUSTRIES LTD. GUJRAT

- Ambient Air Monitoring
- Noise Level Monitoring
- Light Intensity Monitoring
- Vehicular Emission Monitoring
- Drinking Water Analysis
- Wastewater Analysis

Reference No.: AES-FMO-SI-147/2024

Dated: 02 July, 2024

Asian Environmental Services Pvt. Ltd.

has prepared this report as per prerequisites of client.

Any other individual using the content of this document shall do so at their own liability.

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Document No. AES/LMS/FRM-110 | Date of Issue 01 April, 2022 | Revision No. 01

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LAB 208
17025



Client Details

Name of Contact Person	Hamza Bin Sohail
Designation	DM HSE
Contact No.	0336-4116726
Email	
Address	Service Industries Ltd. GT Road, Gujrat, Pakistan

AES Details

AES Director	Mr. Aleem Butt
Contact No.	0300-0303616
Email	info@asianenvirolab.com
Address	C-3, Jhelum Block, Green Forts-II, Lahore

Aleem Butt

Director, Asian Environmental Services



Document No: AES/LMS/FRM-110 Date of Issue: 01 April, 2022 Revision No: 01



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DRINKING WATER ANALYSIS REPORT

Sample Detail

Reference No. AES-FMO-SI-147/2024-DW-149 Reporting Date 02-07-2024
Nature of Sample Drinking Water Sampling Method Reference AES/LMS/QSP-014
Grab/Composite Grab Sample Collected by AES
Sampling Date 25-06-2024 Sample Receiving Date 26-06-2024
Analysis 02-07-2024 Lab Temp & Humidity 25.3°C & 52%
Completion Date 02-07-2024 Lab Temp & Humidity 42°C & 14%
Ambient Temperature & Humidity at the Time of Sampling
Sample ID AES-FMO-DW-149/2024 Sampling Location Pump Room
Client Detail Services Industries Ltd. Gujrat



Drinking Water Analysis Results					
Parameter	Analysis Method	PEQS	Result	MU (CL95%)	Remarks
Lab Analysis					
Color*	SMWW 2120 C	≤ 15 TCU	0	N.A.	Optimal
Taste*	SMWW 2160 C	Non-Objectionable	Non-Objectionable	N.A.	Optimal
Odor*	SMWW 2150 B	Non-Objectionable	Non-Objectionable	N.A.	Optimal
Turbidity*	SMWW 2130 B	< 5 NTU	0	N.A.	Optimal
Total Hardness (as CaCO ₃)**	SMWW 2340 C	< 500 mg/L	108	± 5.1421	Optimal
Total Dissolved Solids (TDS)**	SMWW 2540 C	< 1000 mg/L	290	± 8.0226	Optimal
pH**	SMWW 4500 H* B	6.5- 8.5	7.76	+ 0.04	Optimal
Aluminum (Al)	SMWW 3111 B	≤ 0.2 mg/L	<0.005	N.A.	Optimal
Antimony (Sb)	SMWW 3114 B	≤ 0.005 mg/L	<0.005	N.A.	Optimal
Arsenic (As)	SMWW 3114 B	≤ 0.05 mg/L	<0.005	N.A.	Optimal
Barium (Ba)	SMWW 3113 B	0.7 mg/L	<0.0035	N.A.	Optimal
Boron (B)	SMWW 3113 B	0.3 mg/L	<0.02	N.A.	Optimal
Cadmium (Cd)	SMWW 3113 B	0.01 mg/L	<0.006	N.A.	Optimal
Chloride (Cl) **	SMWW 4500 Cl B	< 250 mg/L	07	± 1.73	Optimal
Chromium (Cr)	SMWW 3113 B	≤ 0.05 mg/L	<0.004	N.A.	Optimal
Copper (Cu)	SMWW 3111 B	2.0 mg/L	0.164	N.A.	Optimal
Cyanide (CN)*	SMWW 4500 CN F	≤ 0.05 mg/L	0	N.A.	Optimal
Fluoride (F)**	SMWW 4500 F C	≤ 1.5 mg/L	0.47	± 0.0505	Optimal
Lead (Pb)	SMWW 3114 B	≤ 0.05 mg/L	<0.005	N.A.	Optimal
Manganese (Mn)	SMWW 3113 B	≤ 0.5 mg/L	<0.015	N.A.	Optimal
Mercury (Hg)	SMWW 3114 B	< 0.001 mg/L	<0.001	N.A.	Optimal
Nickel (Ni)	SMWW 3113 B	≤ 0.02 mg/L	<0.02	N.A.	Optimal
Nitrate (NO ₃)**	SMWW 4500 NO ₃ D	≤ 50 mg/L	0	± 0.048	Optimal
Nitrite (NO ₂) *	SMWW 4500 NO ₂ B	≤ 3.0 mg/L	0.36	N.A.	Optimal
Selenium (Se)	SMWW 3114 B	0.01 mg/L	<0.01	N.A.	Optimal
Residual Chlorine (Cl ₂) *	SMWW 4500 Cl B	0.5 mg/L	0	N.A.	Optimal
Phenolic Compounds (as Phenols) *	SMWW 5530 D	NGVS mg/L	0	N.A.	Optimal

Page 1 of 2

Signature
02/07/24



Document No. AES/LMS/FRM-110 Date of Issue 01 April, 2022 Revision No. 01

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DRINKING WATER ANALYSIS REPORT

Sample Detail

Reference No.	AES-FMO-SI-147/2024-DW-149	Reporting Date	02-07-2024
Nature of Sample	Drinking Water	Sampling Method Reference	AES/LMS/QSP 014
Grab/Composite	Grab	Sample Collected by	AES
Sampling Date	25-06-2024	Sample Receiving Date	26-06-2024
Analysis		Lab Temp & Humidity	25.3°C & 52%
Completion Date	02-07-2024		
Ambient Temperature & Humidity at the Time of Sampling			42°C & 14%
Sample ID	AES-FMO-DW-149/2024	Sampling Location	Pump Room
Client Detail	Services Industries Ltd. Gujrat		



Drinking Water Analysis Results

Parameter	Analysis Method	PEQS	Result	MU (CL95%)	Remarks
Zinc (Zn)	SMWW 3113 B	5.0 mg/L	0.030	N.A.	Optimal
Microbiological Analysis					
Total Coliforms*	SMWW 9222 B	0 CFU/ 100 mL	0	N.A.	Optimal
Fecal Coliforms *	SMWW 9222 D	0 CFU/ 100 mL	0	N.A.	Optimal

*Parameters are approved from Punjab Environmental Protection Agency

**Parameters are accredited from Pakistan National Accreditation Council.

The reported expanded uncertainty is based on combined standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

Abbreviations:

PEQS = Punjab Environmental Quality Standards

TCU = True Color Unit

NTU = Nephelometric Turbidity Unit

Remarks:

Optimal = Compliance with Permissible Range

Low = Less Than Permissible Range

SMWW = Standard Methods for the examination of Water and Wastewater

N.A. = Not Available

MU = Measurement Uncertainty

CFU = Colony Forming Unit

NGVS = No Guideline Value Set

Marginal = Close to Extreme Edge

High = Exceeds from Permissible Range

Report Disclaimer

- The remaining portion of the sample (s) will be disposed off after 15 days after the issuance date of report from the laboratory unless otherwise instructed (Condition Apply).
- This report shall not be reproduced in part/parties.
- The provided results relate only to the sample provided/collected.
- Values reflect the testing results; decision for usage of report totally depends on client.

Analyzed By *GA* 2/7/24



Reviewed By *MA*
(TM) 02/07/24

Approved By *MA*
(QM) 2/07/24

-----End of Report-----

Page 2 of 2

Document No. AES/LMS/FRM 110, Date of Issue 01 April 2022, Revision No. 01



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ENVIRONMENTAL MONITORING & ANALYSIS REPORT

SERVICES INDUSTRIES LTD. GUJRAT

- Ambient Air Monitoring
- Noise Level Monitoring
- Light Intensity Monitoring
- Vehicular Emission Monitoring
- Drinking Water Analysis
- Wastewater Analysis

Reference No.: AES-FMO-SI-147/2024

Dated: 02 July, 2024

Asian Environmental Services Pvt. Ltd.

has prepared this report as per prerequisites of client.

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LAB 208
17025



Client Details

Name of Contact Person	Hamza Bin Sohail
Designation	DM HSE
Contact No.	0336-4116726
Email	
Address	Service Industries Ltd. GT Road, Gujrat, Pakistan

AES Details

AES Director	Mr. Aleem Butt
Contact No.	0300-0303616
Email	info@asianenvirolab.com
Address	C-3, Jhelum Block, Green Forts-II, Lahore

Aleem Butt

Director, Asian Environmental Services



Document No. AES/LMS/FRM-110 Date of Issue 01 April, 2022 Revision No. 01



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Ensuring Quality and Sustainability



LAB 208
17025



Light Intensity Monitoring Report

Monitoring Detail

Reference No. AES-FMO-SI-147/2024-LX-01 Reporting Date 02-07-2024
Monitoring Date 24-06-2024 Instrument LUX Meter
Name of Client Services Industries Ltd. Gujrat

Monitoring Point	Unit	Minimum Lux Level	Maximum Lux Level	Average Lux Level
Cutting Area	LUX	714	726	720
Closing Line		622	629	625.5
Lasting Area		449	461	455
PU Desma 2 & 5		877	881	879
Desma 3 & 4		617	622	619.5
Calza		854	859	856.5
GUSBI Hall		549	556	552.5
Lasting Area 2		492	496	494
Pressing Department		499	509	504
White Mixing		286	291	288.5

Page 1 of 1

Monitored By



Reviewed By
(TM)

Approved By
(QM)

Document No. AES/LMS/ERM-110, Date of Issue 01 April, 2022, Revision 13.01



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Ensuring Quality and Sustainability



LAB 208
17025



ENVIRONMENTAL MONITORING & ANALYSIS REPORT

SERVICES INDUSTRIES LTD. GUJRAT

- Ambient Air Monitoring
- Noise Level Monitoring
- Light Intensity Monitoring
- Vehicular Emission Monitoring
- Drinking Water Analysis
- Wastewater Analysis

Reference No.: AES-FMO-SI-147/2024

Dated: 02 July, 2024

Asian Environmental Services Pvt. Ltd.

has prepared this report as per prerequisites of client.

Any other individual using the content of this document shall do so at their own liability.

The client is responsible for lawful usage of this reported data.

Document No. AES/LMS/FRM-111 Date of Issue 01 April 2022 Revision No. 01



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Ensuring Quality and Sustainability



LAB 208
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Email	
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Email	info@asianenvirolab.com
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Aleem Butt

Director, Asian Environmental Services



Document No: AES/LMS/FRM-110 Date of Issue 01 April, 2022 Revision No: 01



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Ensuring Quality and Sustainability

Ambient Air Monitoring Location-01

NEAR MAIN GATE

Gujrat



Page 1 of 5

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LAB 208
17025



Ambient Air Monitoring Report

Monitoring Details

Reference Number: AES-FMO-SI 147/2024-AA-01 Sampling Point: Near Main Gate
Date of Monitoring: 24-06-2024 to 25-06-2024 Monitoring Coordinates: 32°35'11" N 74°03'18" E

Sr. No.	Time	CO (mg/m ³)	NO (µg/m ³)	NO ₂ (µg/m ³)	NO _x (µg/m ³)	SO ₂ (µg/m ³)
1	15:00	0.35	4.76	10.91	15.67	14.89
2	16:00	0.51	8.98	12.62	21.59	12.02
3	17:00	0.89	7.48	14.48	21.96	16.46
4	18:00	0.29	3.65	10.44	14.09	7.58
5	19:00	0.81	8.99	16.37	25.36	8.36
6	20:00	1.19	11.93	5.90	17.82	15.93
7	21:00	0.64	8.99	11.68	20.67	9.40
8	22:00	0.37	6.60	7.75	14.35	12.28
9	23:00	0.26	1.84	3.14	4.97	0.00
10	00:00	0.87	3.50	5.86	9.36	4.96
11	01:00	0.41	5.94	11.21	17.15	11.23
12	02:00	0.29	3.80	11.49	15.29	6.27
13	03:00	1.43	9.13	4.81	13.94	9.40
14	04:00	1.12	6.09	7.47	13.56	5.15
15	05:00	0.71	6.84	8.56	15.41	0.00
16	06:00	1.29	8.96	5.24	14.20	7.05
17	07:00	0.64	6.02	11.06	17.08	8.36
18	08:00	0.51	8.34	13.39	21.73	4.18
19	09:00	1.07	4.49	21.91	26.41	9.40
20	10:00	0.33	2.60	20.58	23.17	12.28
21	11:00	1.12	4.86	17.54	22.40	7.58
22	12:00	1.78	7.53	10.03	17.56	13.58
23	13:00	1.38	5.85	14.89	20.74	11.28
24	14:00	0.56	4.31	13.35	17.66	8.18
Average Concentration		0.78	6.31	11.28	17.59	8.99

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Page 2 of 5

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LAB 208
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Ambient Air Monitoring Report

Monitoring Details

Reference Number: AES-FMO-SI 147/2024-AA-01 Sampling Point: Near Main Gate
Date of Monitoring: 24-06-2024 to 25-06-2024 Monitoring Coordinates: 32°35'11" N / 74°03'18" E

Parameters	Units	Monitoring Duration	LDL	Average Obtained Concentration	PEQS	Remarks
Nitrogen Dioxide (NO ₂) *	µg/m ³	24Hours	1.00	11.28	80.0	Optimal
Nitrogen Oxide (NO)*	µg/m ³	24Hours	1.00	6.31	40.0	Optimal
NO _x *	µg/m ³	24Hours	1.00	17.59	-	-
Sulphur Dioxide (SO ₂) *	µg/m ³	24Hours	1.00	8.99	120.0	Optimal
Carbon Monoxide (CO)*	mg/m ³	24Hours	0.01	0.78	05.0	Optimal
Particulate Matter (PM ₁₀) *	µg/m ³	24Hours	1.00	92	150	Optimal
Particulate Matter (PM _{2.5}) *	µg/m ³	24Hours	1.00	22	35	Optimal
Total Particulate Matter (TSP)	µg/m ³	24Hours	1.00	141	500	Optimal

*Parameters are approved from Punjab Environmental Protection Agency

Abbreviations:

LDL= Lower Detection Limit

PEQS= Punjab Environmental Quality Standards

µg/m³ = Micro Gram per Meter Cube

mg/m³ = Milli Gram per Meter Cube

Remarks:

Optimal = Compliance with Permissible Range

Marginal = Close to Extreme Edge

High = Exceeds from Permissible Range

Low = Less Than Permissible Range

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Ambient Air Monitoring Report

Monitoring Details

Reference Number: AES-FMO-SI-147/2024-AA-01 Sampling Point: Near Main Gate
Date of Monitoring: 24-06-2024 to 25-06-2024 Monitoring Coordinates: 32°35'11" N 74°03'18" E

Sr. No.	Time	Ambient Temperature °C	Wind Direction	Wind Velocity m/s	Humidity %	Pressure (mm of Hg)
1	15:00	43	SW	5.3	28	756.60
2	16:00	43	W	3.0	28	756.40
3	17:00	43	NW	3.6	30	755.80
4	18:00	41	NW	1.9	34	755.30
5	19:00	40	NW	1.4	35	755.10
6	20:00	39	NW	1.7	35	754.70
7	21:00	37	NW	2.5	37	754.80
8	22:00	36	SW	2.5	39	753.60
9	23:00	35	S	4.2	41	753.30
10	00:00	34	S	5.3	41	753.10
11	01:00	33	S	4.2	41	752.50
12	02:00	33	SW	4.2	44	751.80
13	03:00	32	SW	4.7	46	751.50
14	04:00	31	SW	3.0	46	751.80
15	05:00	31	S	2.5	46	752.20
16	06:00	33	S	1.7	41	752.70
17	07:00	36	SW	0.8	39	753.30
18	08:00	39	SW	0.3	33	753.80
19	09:00	40	SW	1.9	27	754.30
20	10:00	41	S	1.1	26	754.90
21	11:00	42	S	2.2	21	755.10
22	12:00	43	SW	1.4	20	755.80
23	13:00	44	SW	0.8	19	756.40
24	14:00	44	W	1.7	18	756.70

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Page 4 of 5

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LAB 208
17025



ENVIRONMENTAL MONITORING & ANALYSIS REPORT

SERVICES INDUSTRIES LTD. GUJRAT

- Ambient Air Monitoring
- Noise Level Monitoring
- Light Intensity Monitoring
- Vehicular Emission Monitoring
- Drinking Water Analysis
- Wastewater Analysis

Reference No.: AES-FMO-SI-147/2024

Dated: 02 July, 2024

Asian Environmental Services Pvt. Ltd.

has prepared this report as per prerequisites of client.

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Ensuring Quality and Sustainability



LAB 208
17025



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Name of Contact Person	Hamza Bin Sohail
Designation	DM HSE
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Email	
Address	Service Industries Ltd. GT Road, Gujrat, Pakistan

AES Details

AES Director	Mr. Aleem Butt
Contact No.	0300-0303616
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Aleem Butt

Director, Asian Environmental Services



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Ensuring Quality and Sustainability

Noise Monitoring Report

Monitoring Details

Reference Number	AES-FMO-SI-147/2024-AA-01	Sampling Point	Near Main Gate
Date of Monitoring	24-06-2024 to 25-06-2024	Monitoring Coordinates	32°35'11" N 74°03'18" E

Sr. No.	Time	Noise dB(A)*	PEQS
1	15:00	54	
2	16:00	56	
3	17:00	58	
4	18:00	58	
5	19:00	61	Day Time
6	20:00	63	
7	21:00	65	
8	22:00	65	
9	23:00	67	
10	00:00	64	
11	01:00	61	
12	02:00	58	
13	03:00	53	Night Time
14	04:00	50	
15	05:00	50	
16	06:00	49	
17	07:00	48	
18	08:00	46	
19	09:00	49	
20	10:00	50	Day Time
21	11:00	52	
22	12:00	52	
23	13:00	53	
24	14:00	54	

*Parameters are approved from Punjab Environment Protection Agency.

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LAB 208
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Noise Level Monitoring Report

Monitoring Detail

Reference No. AES-FMO-SI-147/2024-NS-01 Reporting Date 02-07-2024
Monitoring Date 24-06-2024 Instrument Digital Sound Level Meter (Smart Sensor)
Client Name Services Industries Ltd. Gujrat

Monitoring Point	Unit	Monitoring Result			PEQS	Remarks
		Minimum Noise Level	Maximum Noise Level	Average Noise Level*		
Cutting Area	dB (A)	64.5	71.3	67.9	75	Optimal
Closing Line		61.9	67.1	64.5	75	Optimal
Lasting Area		63.3	69.9	66.6	75	Optimal
Lasting Area 2		64.4	71.1	67.7	75	Optimal
PU Desma 2 & 5		59.8	69.9	64.8	75	Optimal
Desma 3 & 4		58.3	67.2	62.7	75	Optimal
Calza		59.7	60.9	60.3	75	Optimal
GUSBI Hall		55.9	57.2	56.6	75	Optimal
Pressing Department		60.4	62.1	61.2	75	Optimal
White Mixing		58.7	59.8	59.2	75	Optimal
East Boundary		62.9	64.7	63.8	75	Optimal
West Boundary		60.9	62.2	61.6	75	Optimal
South Boundary		57.7	58.9	58.3	75	Optimal
North Boundary		60.6	61.4	60.9	75	Optimal

*Parameters are approved from Punjab Environmental Protection Agency.

Abbreviations:

PEQS= Punjab Environmental Quality Standards

Remarks:

Optimal = Compliance with Permissible Range

Low = Less Than Permissible Range

dB(A)= Decibel (Relatable to human hearing)

Mcirghal = Close to Extreme Edge

High = Exceeds from Permissible Range

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ENVIRONMENTAL PROTECTION AGENCY
GOVERNMENT OF THE PUNJAB
National Hockey Stadium, Gate No. 08
Gaddafi Stadium Complex, Lahore



4889

Validation for Monitoring / Sampling of Stack Emission, Noise, Ambient air, Vehicular emissions
(Read conditions of certificate along with Regulation 9(1)(d) of CELR, 2000)

Cautions Related to scope, use & legal foundation of Validation

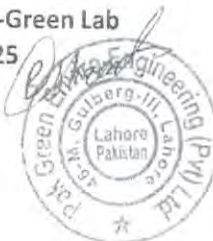
1. The Validation is quality control check under Regulation 9(1)(d) for sampling & monitoring.
2. The Sampling / monitoring performed under Regulation 3(a) by Technical & Scientific Staff of private Laboratory as allowed through Conditions of Certificate.
3. The Scope of quality check of validation does not cover quality check of results declared with Report.
4. "The validated sampling / monitoring of the tests report is for non-punitive actions such as baseline study EIA/IEE, Self-monitoring, reporting under conditions of EIA/IEE, etc. while the report is not valid for Court cases, EPO, compliance reporting for operational Phase approvals, punitive actions such as Smog prevention & control Rules, 2023, complaint cases, etc". The same shall be exhibit at top of Report during its issuance under Regulation 12.
5. The tests Report cannot be used as evidence against any non-compliance SMR /report issued by EPA official Laboratory.
6. The EPA officer as well as certified Laboratory should also comply directions issued by authority vide letter No. 01-DD(Labs)/EPA dated 25.07.2022 while considering test report.

Nature Of Sample	Stack Emissions	Ambient Air✓	Vehicular Emission	Ambient Noise
Description of monitored source / Site	Ambient Air, Noise Level			
Name and category of Unit	Service Industries Limited - GT road, Gujrat			
Standard Method	NDIR+UV			
Equipment, Model,	AQMS, Noise Meter			
Field Tested Parameters ,	CO, NO, NO ₂	Lab Tested Parameters (Not Validated)	<i>performed Request</i>	
Industrial Gaseous Emissions				
Values of tested Field Parameters: COmg/nM3, NOx ...mg/nM3 , excess air (%age):				
(i) 5 min Ramp Up phase (ii) flow rate & EC Temp. measured during calibration & testing (iii) Data recorded with 15 min interval (iv) complied all QA/QC checks		Yes	NO	NA✓
Stack Particulate Matter (PM) Monitoring / Sampling under USEPA Method 5 / 17				
(i) Sample train is complete (ii) Leak Test Performed (iii) data sheet filled (iv) "K" & "Y" calculated (v) QA/QC complied (vi) suitability of filter ensured		Yes	No	NA✓
Stack SOx sampling as per Method 8 (Thorin Indicator Method)				
(i) Absorbent solution available (ii) Flow rate as per method (iii) sampling as per Method		Yes	No	NA✓
Ambient Air Quality Monitoring by Automatic Monitors for CO, O3, SO2, NOx, PM2.5 & PM10				
Zero/span check is performed (i) CE of NOx 96% - 104.1% , Compliance of Critical Criteria (iii) Compliance of operational Criteria (iv) Comply PEQS measuring technique		Yes✓	No	NA
Ambient Air Sampling of SPM, PM10, Pb by High Volume Sampler				
(i) The flow rate of sampler 1.1m3/min, (ii) Calibration performed		Yes	No	NA✓
Vehicular Emissions & Noise Measurement				
Vehicle emissions and noise measurement performed as per method		Yes✓	No	NA

Remarks:-

[Signature]
Research Officer
Environmental Protection Agency
Punjab Lahore

M-Basharat: Pak-Green Lab
Dated: 16-06-2025





ENVIRONMENTAL PROTECTION AGENCY
GOVERNMENT OF THE PUNJAB
National Hockey Stadium, Gate No. 08
Gaddafi Stadium Complex, Lahore



4889

Validation for Sampling of Wastewater & Drinking Water / Ground water

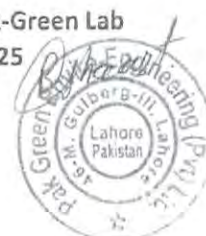
(Read conditions of certificate along with Regulation 9(1)(d) of CELR, 2000)

Nature Of Sample	Waste Water		Drinking Water / Ground Water✓				
Description of Sample source /Site			Ground Water				
Name and category of Project /Unit	Service Industries Limited - GT road, Gujrat						
Standard Method used for Sampling	EPA-1060						
Field Tested Parameters ,	Field Tested parameter	Temp, PH, etc.	Lab Tested Parameters (Not validated)				
Waste Water Treatment facility	Primary	Secondary	Tertiary				
Total WW collected SampleNA	Total Collected Drinking water samples.....01						
Sample Tag for testing parameter is assigned on sample container	Yes✓		NO	NA			
Sample is preserved properly for each testing parameter	Yes✓		NO	NA			
Sample size is adequate for testing the target parameters	Yes✓		NO	NA			
Wastewater Flow Measurement performed to ensure sample representativeness	Yes		NO✓	NA			
No. of Waste Water outlets	Waste Water Flow m ³ /hr from each outlet (Optional)	Water intake m ³ /hr(Optional)	Water Mass balance (Optional)	Sample Type			
			Yes No	Grab✓ Composite			
Parameter	Matrix W WW	Container	Sample Size	Preservation	Yes	NO	NA
Coliform, Total/Fecal	✓	Sterile Container	100mL	Refrigerate 6°C	✓		
Coliform, Total/Fecal, Chlorinated Water	✓	Sterile Container	100mL	0.008% Thiosulphate & cooled 6°C	✓		
Color, Turbidity	✓	P, G	500mL	Cool 6°C	✓		
Hardness, Total	✓	P, G	500ml	HNO ₃ to pH < 2	✓		
Nitrogen, Nitrate + Nitrite, Phenolic Compounds, Oil & Grease, COD, NH ₃		P, G	2000 mL	H ₂ SO ₄ to pH < 2, Cool 6°C			
Metals, General	✓	P, G Rinsed I.I HNO ₃	500mL	HNO ₃ to pH < 2	✓		
Cyanide, Total		P, G	500mL	NaOH to pH > 12, Cool 6°C			
Pesticides, General		Glass	1 Liter	Cool 6°C			
Field Parameters							
Field parameter		PH Meter, Model Make	Measurement Method	Calibrated in Field	Measured value		
pH		AS 218	APHA 4500 B	Yes✓ NO			
Temp							
Cl							

Remarks / Caution: (1) The Validation is quality control check under Regulation 91(d) for sampling & monitoring. (2) The Sampling / monitoring performed under Regulation 3(a) by Technical & Scientific Staff of private Laboratory as allowed through Conditions of Certificate (3) The Scope of quality check of validation does not cover quality check of results declared with Report (4) The validated sampling / monitoring of the tests report is for non-punitive actions such as baseline study EIA/IEE, Self-monitoring, reporting under conditions of EIA/IEE, etc. (5) The tests Report cannot be used as evidence against any non-compliance SMR /report issued by EPA official Laboratory (6) The EPA officer as well as certified Laboratory should also comply directions issued vide letter No. 01-DD(Labs)/EPA dated 25.07.2022 while considering test report.


Research Officer
Environmental Protection Agency
Punjab Lahore

M-Basharat: Pak-Green Lab
Dated: 16-06-2025



Annexure

Google Earth Map & Layout
Map of the Project

Proposed Extension in Service Industries Limited, Gujrat

By Constructing Petroleum/ Raw Chemical Products Storage Godown
Coordinates are given below

- Latitude: 32°35'9.22"N
- Longitude: 74° 3'19.48"E

Legend

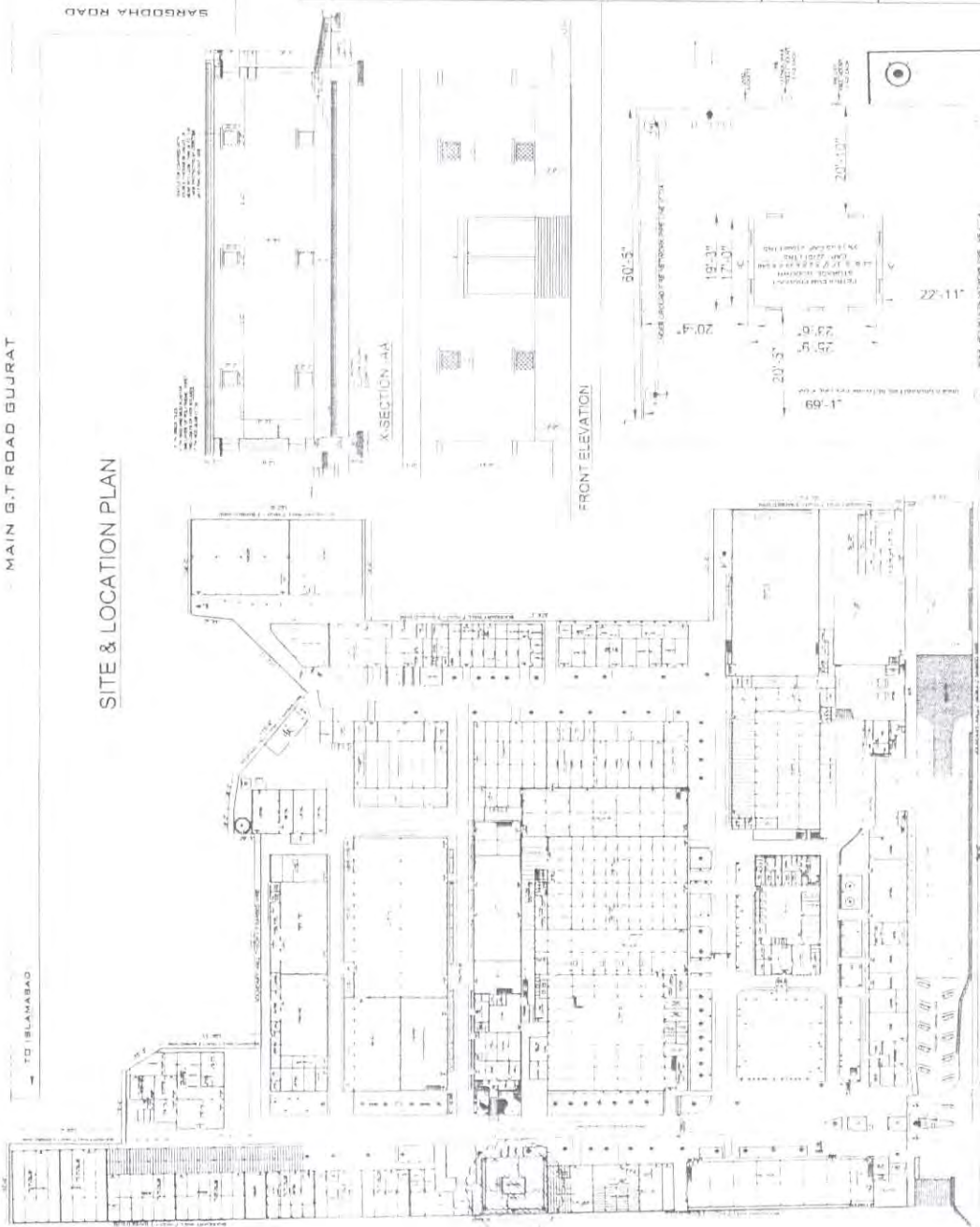
- Ahmed Center
- ▭ Project Boundary



PETROLEUM PRODUCTS FOR STORAGE GODOWN

TANK NO.	SIZE	PRODUCT	TYPE	APPROX. AREA IN SQ. METERS (NET CAPACITY - 1000 LITERS)	DATE
1	10000	HEAVY OIL (JET A-1)	1	10000	1977
2	10000	HEAVY OIL (JET A-1)	2	10000	1977
3	10000	HEAVY OIL (JET A-1)	3	10000	1977
4	10000	HEAVY OIL (JET A-1)	4	10000	1977
5	10000	HEAVY OIL (JET A-1)	5	10000	1977
6	10000	HEAVY OIL (JET A-1)	6	10000	1977
7	10000	HEAVY OIL (JET A-1)	7	10000	1977
8	10000	HEAVY OIL (JET A-1)	8	10000	1977
9	10000	HEAVY OIL (JET A-1)	9	10000	1977
10	10000	HEAVY OIL (JET A-1)	10	10000	1977
11	10000	HEAVY OIL (JET A-1)	11	10000	1977
12	10000	HEAVY OIL (JET A-1)	12	10000	1977
13	10000	HEAVY OIL (JET A-1)	13	10000	1977
14	10000	HEAVY OIL (JET A-1)	14	10000	1977
15	10000	HEAVY OIL (JET A-1)	15	10000	1977
16	10000	HEAVY OIL (JET A-1)	16	10000	1977
17	10000	HEAVY OIL (JET A-1)	17	10000	1977
18	10000	HEAVY OIL (JET A-1)	18	10000	1977
19	10000	HEAVY OIL (JET A-1)	19	10000	1977
20	10000	HEAVY OIL (JET A-1)	20	10000	1977
21	10000	HEAVY OIL (JET A-1)	21	10000	1977
22	10000	HEAVY OIL (JET A-1)	22	10000	1977
23	10000	HEAVY OIL (JET A-1)	23	10000	1977
24	10000	HEAVY OIL (JET A-1)	24	10000	1977
25	10000	HEAVY OIL (JET A-1)	25	10000	1977
26	10000	HEAVY OIL (JET A-1)	26	10000	1977
27	10000	HEAVY OIL (JET A-1)	27	10000	1977
28	10000	HEAVY OIL (JET A-1)	28	10000	1977
29	10000	HEAVY OIL (JET A-1)	29	10000	1977
30	10000	HEAVY OIL (JET A-1)	30	10000	1977
31	10000	HEAVY OIL (JET A-1)	31	10000	1977
32	10000	HEAVY OIL (JET A-1)	32	10000	1977
33	10000	HEAVY OIL (JET A-1)	33	10000	1977
34	10000	HEAVY OIL (JET A-1)	34	10000	1977
35	10000	HEAVY OIL (JET A-1)	35	10000	1977
36	10000	HEAVY OIL (JET A-1)	36	10000	1977
37	10000	HEAVY OIL (JET A-1)	37	10000	1977
38	10000	HEAVY OIL (JET A-1)	38	10000	1977
39	10000	HEAVY OIL (JET A-1)	39	10000	1977
40	10000	HEAVY OIL (JET A-1)	40	10000	1977
41	10000	HEAVY OIL (JET A-1)	41	10000	1977
42	10000	HEAVY OIL (JET A-1)	42	10000	1977
43	10000	HEAVY OIL (JET A-1)	43	10000	1977
44	10000	HEAVY OIL (JET A-1)	44	10000	1977
45	10000	HEAVY OIL (JET A-1)	45	10000	1977
46	10000	HEAVY OIL (JET A-1)	46	10000	1977
47	10000	HEAVY OIL (JET A-1)	47	10000	1977
48	10000	HEAVY OIL (JET A-1)	48	10000	1977
49	10000	HEAVY OIL (JET A-1)	49	10000	1977
50	10000	HEAVY OIL (JET A-1)	50	10000	1977
51	10000	HEAVY OIL (JET A-1)	51	10000	1977
52	10000	HEAVY OIL (JET A-1)	52	10000	1977
53	10000	HEAVY OIL (JET A-1)	53	10000	1977
54	10000	HEAVY OIL (JET A-1)	54	10000	1977
55	10000	HEAVY OIL (JET A-1)	55	10000	1977
56	10000	HEAVY OIL (JET A-1)	56	10000	1977
57	10000	HEAVY OIL (JET A-1)	57	10000	1977
58	10000	HEAVY OIL (JET A-1)	58	10000	1977
59	10000	HEAVY OIL (JET A-1)	59	10000	1977
60	10000	HEAVY OIL (JET A-1)	60	10000	1977
61	10000	HEAVY OIL (JET A-1)	61	10000	1977
62	10000	HEAVY OIL (JET A-1)	62	10000	1977
63	10000	HEAVY OIL (JET A-1)	63	10000	1977
64	10000	HEAVY OIL (JET A-1)	64	10000	1977
65	10000	HEAVY OIL (JET A-1)	65	10000	1977
66	10000	HEAVY OIL (JET A-1)	66	10000	1977
67	10000	HEAVY OIL (JET A-1)	67	10000	1977
68	10000	HEAVY OIL (JET A-1)	68	10000	1977
69	10000	HEAVY OIL (JET A-1)	69	10000	1977
70	10000	HEAVY OIL (JET A-1)	70	10000	1977
71	10000	HEAVY OIL (JET A-1)	71	10000	1977
72	10000	HEAVY OIL (JET A-1)	72	10000	1977
73	10000	HEAVY OIL (JET A-1)	73	10000	1977
74	10000	HEAVY OIL (JET A-1)	74	10000	1977
75	10000	HEAVY OIL (JET A-1)	75	10000	1977
76	10000	HEAVY OIL (JET A-1)	76	10000	1977
77	10000	HEAVY OIL (JET A-1)	77	10000	1977
78	10000	HEAVY OIL (JET A-1)	78	10000	1977
79	10000	HEAVY OIL (JET A-1)	79	10000	1977
80	10000	HEAVY OIL (JET A-1)	80	10000	1977
81	10000	HEAVY OIL (JET A-1)	81	10000	1977
82	10000	HEAVY OIL (JET A-1)	82	10000	1977
83	10000	HEAVY OIL (JET A-1)	83	10000	1977
84	10000	HEAVY OIL (JET A-1)	84	10000	1977
85	10000	HEAVY OIL (JET A-1)	85	10000	1977
86	10000	HEAVY OIL (JET A-1)	86	10000	1977
87	10000	HEAVY OIL (JET A-1)	87	10000	1977
88	10000	HEAVY OIL (JET A-1)	88	10000	1977
89	10000	HEAVY OIL (JET A-1)	89	10000	1977
90	10000	HEAVY OIL (JET A-1)	90	10000	1977
91	10000	HEAVY OIL (JET A-1)	91	10000	1977
92	10000	HEAVY OIL (JET A-1)	92	10000	1977
93	10000	HEAVY OIL (JET A-1)	93	10000	1977
94	10000	HEAVY OIL (JET A-1)	94	10000	1977
95	10000	HEAVY OIL (JET A-1)	95	10000	1977
96	10000	HEAVY OIL (JET A-1)	96	10000	1977
97	10000	HEAVY OIL (JET A-1)	97	10000	1977
98	10000	HEAVY OIL (JET A-1)	98	10000	1977
99	10000	HEAVY OIL (JET A-1)	99	10000	1977
100	10000	HEAVY OIL (JET A-1)	100	10000	1977

LEGENDS	DESCRIPTION	TYPE	QTY
1	FOAM FIRE FIGHTER	1	2 NOS
2	4" FIRE PUMP	1	2 NOS
3	5" FIRE PUMP	1	04 NOS
4	SAND BUCKETS	1	4 NOS
5	FIRE HYDRANT	1	04 NOS
6	FIRE FIGHTER	1	02 NOS



SITE & LOCATION PLAN

GENERAL NOTES

- THAT CERTIFICATE TO THE EFFECT THAT THERE WILL BE NO OPENING IN THE BOUNDARY WALL.
- FROM THE ADJACENT BUILDING TOWARDS THE OIL STORAGE GODOWN.
- THAT CERTIFICATE TO THE EFFECT THAT NO OTHER COMMERCIAL OTHER ACTIVITIES WILL BE RUN AT SITE.
- CERTIFICATE THAT THE STORAGE GODOWN WILL BE MADE OF INFLAMMABLE MATERIAL.
- DOOR DOOR FRAME & VENTILATORS (WOULD) BE OF STEEL.
- CERTIFICATE THAT THE DOOR WILL BE OPEN OUTWARD & VENTILATOR.
- WILL BE PROTECTED IN PROTECTORS REQUIRED SAFETY DISTANCE MAINTAINED ALL TIME AT THE SITE.
- ADEQUATE ARRANGEMENT WILL BE MADE ON THE PREMISES.
- 2" 10" SUM PROVIDED.
- NO NATURAL GAS PIPE LINE EXISTS WITH IN A 50'-0" RADII OF PREMISES.
- THERE IS NO HOSPITAL, SCHOOL OR RESTAURANT AREA NEAR OF THE OIL STORAGE GODOWN.
- NO FIRST FLOOR OR BASEMENT WILL BE CONSTRUCTED AT THE SITE.

TITLE: M/S SERVICE INDUSTRIES LIMITED (FTW).
OWNER SIGN:

ADDRESS: PROPOSED LAYOUT PLAN OF PETROLEUM PRODUCTS STORAGE GODOWN AT KHEWAT NO.17, 20, 44, 99, 124, 130, 134, 139, 142, 144, 148, 156, 263, KHATOONI NO.17, 20, 100, 105, 138, 144, 148, 153, 156, 158, 162, 170, 275, AT MOUZA ADOWAL, TEHSIL & DISTRICT GUJRAT

DRAWN BY: _____ DRAWING NO: DC/2002
CHECKED BY: _____ DATED: 30-08-2025
APPROVED BY: _____

LAYOUT PLAN

DETAIL 01

Annexure

CNIC

propent;

PAKISTAN National Identity Card
ISLAMIC REPUBLIC OF PAKISTAN

Name
Arif Saeed

Father Name
Chaudhry Ahmad Saeed

Gender : Country of Stay
M : Pakistan

Identity Number
35202-2835725-9

Date of Birth
16.11.1967

Date of Issue
28.02.2019

Date of Expiry
28.02.2029

Holder's Signature

35202-2835725-9

QR Code

525541603181
270-S-320222

Registrar General Pakistan

گمشدہ کارڈ ملنے پر قریبی لیڈ بکس میں ڈال دیں

witnesses

