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**EXECUTIVE SUMMARY**

**TITLE & LOCATION OF THE PROJECT**

Subject project for which this Environmental Impact Assessment (EIA) Study has been conducted is the Already established pharmaceutical unit under the name of M/s GoldSheff Nutraceuticals (Pvt.) Ltd located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore, over an area of 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT. M/S GoldSheff Nutraceuticals (Pvt.) Ltd has successfully obtained a license from the Drug Regulatory Authority of Pakistan. Certificate is attached as **Annexure-J**.

**PROJECT CAPACITY:**

The production capacity of each product in pharmaceutical unit is given below:

<b>Sr.no</b>	<b>Products</b>	<b>Production Capacity/Month</b>
1	Tablet	4 million/ month (can be blistered/Packed in bottles)
2	Syrup	4 Lac/month
3	Sachet	2 lac sachet packs (1*10)/month
4	Dry Milk Powder	100k Tin packs/month
5	Cream	1 lac tubes/month

**CATEGORY OF THE PROJECT:**

The said Project; i.e., Already Established pharmaceutical unit falls under Schedule-II category B (Manufacturing and Processing), Clause 2 (Chemical manufacturing unit, including pharmaceuticals and cosmetics), under Punjab Environmental protection (Review of IEE/EIA) Regulations, 2022, hence such projects require submission of EIA Report to obtain Environmental Approval, under Section 12 of Punjab Environmental Protection Act

1997. TORs of the study under clause 5 (f) of policy and procedure for the filing, review and approval of environmental assessment are annexed as **Annexure-A** with this EIA report.

## LOCATION

Subject unit is located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

The Location Coordinates are:

- **31°17'26.80"N**
- **74° 9'45.58"E**

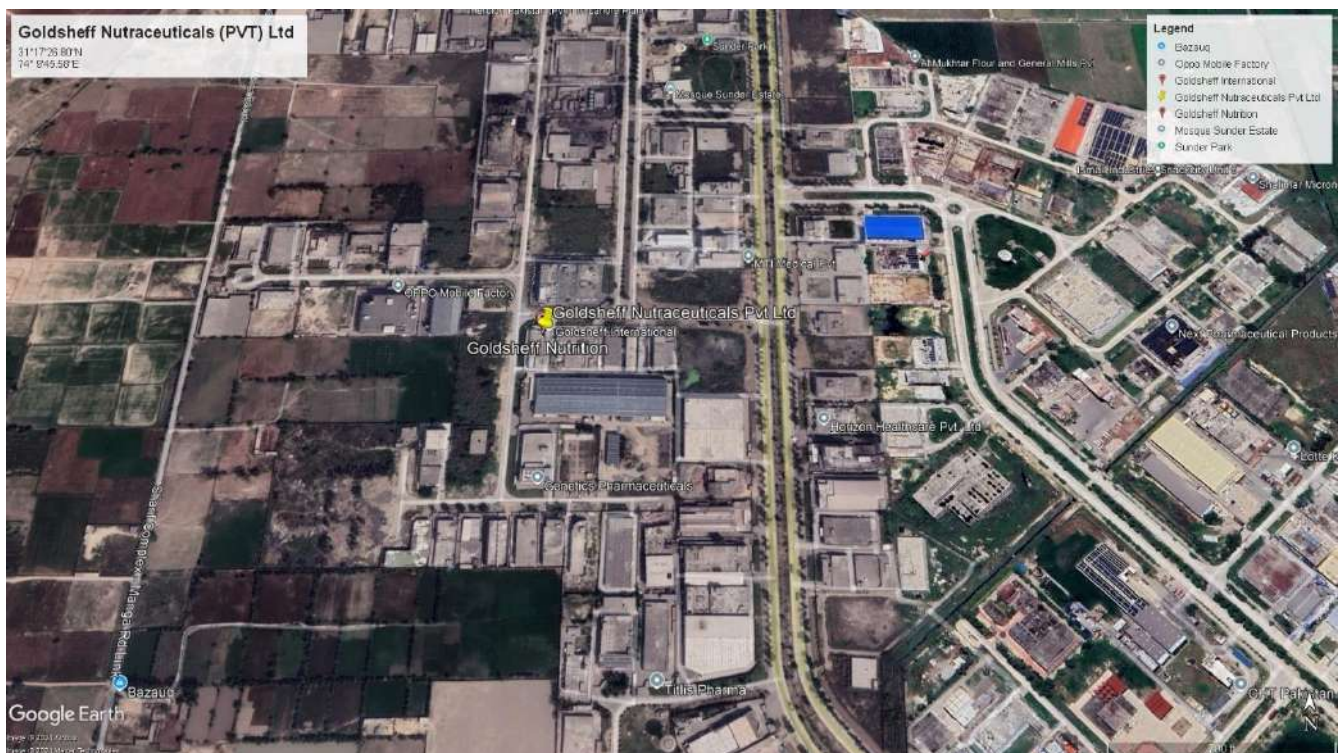
Project land coordinates are as follows:

**North = Access Road**

**South = Industrial Unit**

**East = Industrial Unit**

**West = Access Road**



**Figure: Aerial View of The Said Project**

## NAME OF THE PROPONENT

Name: Mr. Bilal Ahmad

CNIC# 35202-4516885-5

Mailing Address: Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore

For further details, CNIC of the proponent and other relevant documents are attached with this report as **Annexure B**.

### **NAME OF ORGANIZATION PREPARING THE REPORT:**

Environmental Services of Pakistan (ESPAK)., as independent consultants, has been appointed by the proponent to conduct Environmental Impact Assessment Study.

Company office address: Office No. 731, Shah Jilani Road, Block 2 Sector D1 Lahore.

Contact No: 0312-0839999

For detail company profile see the Chapter # 1 “Introduction

### **STUDY TEAM**

#	Name of Team Members	Designation	Qualification
1	Maham Ahsan	Environmentalist	M.S Environmental Science
2	Ali Ramzan	Environmentalist	B.S Environmental Sciences
3	Asma Akram	Environmentalist	M.S Environmental Science
4	Taha Nadeem	Environmentalist	B.S Environmental Sciences
5	Shahzad Ahmad Khan	Project Manager	MBA Marketing

### **A BRIEF OUTLINE OF THE PROPOSAL**

Name of the project:	Already established pharmaceutical unit under the name of M/s GoldSheff Nutraceuticals (Pvt.) Ltd
Location of the project:	Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore
Proposed Area:	Total area of the plot is 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT.
Nature of Project:	Nature of the project is establishment of pharmaceutical industry for production of

	<ol style="list-style-type: none"> <li>1. Tablets</li> <li>2. Syrups</li> <li>3. Sachets</li> <li>4. Dry Milk Powder</li> <li>5. Cream</li> </ol>																		
Cost of the project:	The Cost of operation is 7 million rupees.																		
Project process:	The process cycle of production is based on Granulation, Compression/Encapsulation and Packing (Blister Packing) of medicines.																		
Production capacity	<p>The production capacity of each product in pharmaceutical unit is given below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr.no</th> <th style="text-align: center;">Products</th> <th style="text-align: center;">Production Capacity/Month</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Tablet</td> <td>4 million/ month (can be blistered/Packed in bottles)</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Syrup</td> <td>4 Lac/month</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Sachet</td> <td>2 lac sachet packs (1*10)/month</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Dry Milk Powder</td> <td>100k Tin packs/month</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Cream</td> <td>1 lac tubes/month</td> </tr> </tbody> </table>	Sr.no	Products	Production Capacity/Month	1	Tablet	4 million/ month (can be blistered/Packed in bottles)	2	Syrup	4 Lac/month	3	Sachet	2 lac sachet packs (1*10)/month	4	Dry Milk Powder	100k Tin packs/month	5	Cream	1 lac tubes/month
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4	Dry Milk Powder	100k Tin packs/month																	
5	Cream	1 lac tubes/month																	
Power Requirement:	Power requirements of the project is being fulfilled by WAPDA with transformer of 360 K.W has been installed to full fill the energy requirement.																		
Labor/ Workforce:	During Operation: 20-25 persons (approximately).																		
Water Requirement:	During the operational phase of the project approx. 1728m <sup>3</sup> /day water will be required for project process and domestic purposes.																		
Solid waste:	During operation: 360-400 kg/day domestic and project related waste.																		

**THE MAJOR IMPACTS**

In order to identify all the activities associated with the project during operation phase with potential to cause adverse environmental impacts and harm a thorough review has been conducted. Project does not have any significant adverse impacts on the nearby community and on environment. Overall, the project has 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.

**Table: Summary of Environmental impacts of the project during the operational phase and their mitigation measures:**

Potential Impact	Criteria for determining Significance	Key Mitigation Measures
<p><b>Gaseous Emissions-</b></p> <p>During the operational phase of the project, gaseous emissions from project site generator (if use) may affect the air quality of the project area.</p>	<p>PEQS for Ambient Air</p>	<p>Industry should ensure the PEQS compliance and should not be allowed to emit hazardous pollutants.</p> <p>Proper tuning of generator should be done to avoid the excessive gaseous emission from the generator.</p> <p>Vehicle emissions inspection should be done on regular basis.</p> <p>Sprinkling should be done on the unpaved area to avoid dust pollution/ particulate matter.</p>
<p><b>Noise-</b></p> <p>Noise due to industrial activity, machinery and generators can be a nuisance for the workers in the working area.</p>	<p>OSHA Standards</p>	<p>Activities generating high levels of noise should be minimized at the project site.</p> <p>Personal Protective Equipment PPEs including Ear muffs, Ear plugs and other noise abating equipment will be provided to the workers and other staff in case of noise at the project site.</p> <p>Generator should be covered with canopy (if</p>

		<p>use).</p> <p>Proper maintenance and tuning of the vehicles should be done.</p> <p>Sound proof rooms should be built for generators to be installed at the project site to control the noise.</p> <p>Speed restriction of 40 km/h should be imposed on all vehicles.</p>
<p><b>Discharge of wastewater-</b></p> <p>The discharge of untreated municipal wastewater may be a negative impact of the subject project.</p>	<p>PEQS for Municipal Effluents (mg/l, unless otherwise defined)</p>	<p>Each industry should construct its own wastewater treatment facility to treat its industrial and municipal wastewater before its final disposal.</p> <p>Domestic and industrial waste water will be drained out in nearby local drain after treatment in wastewater treatment facilities.</p> <p>Municipal wastewater must be treated before its discharge.</p> <p>Compliance of PEQS for Municipal and Liquid Industrial Effluents should be ensured.</p> <p>Monitoring should be conducted as per PEQS and reports should be submitted to EPA.</p>
<p><b>Health &amp; Safety Issues-</b></p> <p>Different operational activities at the project site may cause health and safety issues for workers if precautionary measures will not be adopted.</p>	<p>OSHA Standards</p>	<p>Proper training of workers and staff should be conducted to avoid the accidents.</p> <p>Use of PPEs should be implemented at workplace.</p> <p>First aid measures/medical facility should be provided at the project site.</p> <p>Safe drinking water must be provided to workers, staff, and poor people of the area.</p> <p>Water consumption records should be maintained.</p> <p>Safety signs &amp; boards should be placed</p>

		during operational activities.
<p><b>Solid waste management-</b>                  If solid waste will not be managed properly, it may cause negative impacts.</p>	Exposure to potentially hazardous waste; Generation of excessive waste; Recyclable waste and reusable waste are discarded; Littering; Improper disposal.	A solid waste management division should be formulated to deal with the proper disposal of solid waste, supervised by HSE Manager, SW Manager, and other related personnel. Project related waste i.e. cardboard boxes, blister packs, Containers, Plastics, aluminum foil should be properly collected and should be handed over to contractors. Industrial ecology practices will be adopted wherever possible. 7 R's of sustainability are recommended to achieve. Industrial solid waste should also be managed in scientific way.

### **PROPOSED ENVIRONMENTAL MONITORING**

To oversee the environmental performance of the project through its lifecycle 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. Monitoring for following Environmental Parameters is recommended:

- **AMBIENT AIR**

Monitoring for ambient air should be conducted during operational activities of the project and report should be submitted to EPA Punjab.

- **NOISE**

Regular monitoring for noise level should be maintained periodically during operation phases of the project and report should be submitted to EPA Punjab as per rule.

- **WATER QUALITY**

Regular monitoring of water quality should be conducted during operational phases of the project and report should be submitted to EPA Punjab. Record should be maintained regarding the underground water pump and consumption.



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Recommendation: Environmental Monitoring data log book should be maintained by the project proponent.

## **CHAPTER # 1**

### **INTRODUCTION**

This Section of the report provides an overview of the rationale of the Project, objective of project, requirement of the project, purpose of the report and approach adopted to conduct the Environmental Impact Assessment Study.

#### **PURPOSE OF THE REPORT**

Environmental Impact Assessment (EIA) report is being submitted to the Environmental Protection Agency (EPA), Government of the Punjab, Lahore for the compliance of Section 12 of Punjab Environment Protection Act-1997 (Amended 2012) for obtaining No Objection Certificate (NOC). 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.

#### **IDENTIFICATION OF THE PROJECT AND PROPONENT**

The proponent has been submitting this EIA report, the said project is already established and the proponent wants to get Environmental approval for said unit under the name of M/s GoldSheff Nutraceuticals (Pvt.) Ltd.

#### **PROPONENT:**

Name: Mr. Bilal Ahmad

CNIC# 35202-4516885-5

Mailing Address: Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

For further details, CNIC of the proponent and other relevant documents are attached as **Annexure-B.**

### **DETAILS OF CONSULTANT**

Environmental Services of Pakistan (ESPAK)., as independent consultants, has been appointed by the proponent to conduct Environmental Impact Assessment Study.

Company office address: Office No. 731, Shah Jilani Road, Block 2 Sector D1 Lahore.

Contact No: 0312-0839999

### **BRIEF DESCRIPTION OF NATURE, SIZE AND LOCATION OF PROJECT**

Subject project is already established pharmaceutical unit by M/s GoldSheff Nutraceuticals (Pvt.) Ltd at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore. Total area of the plot is 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT. The Cost of operation is 7 million rupees. The process cycle of production is based on Granulation, Compression/Encapsulation and Packing (Blister Packing) of medicines.

### **LOCATION**

Subject unit is located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore

The Location Coordinates are:

- **31°17'26.80"N**
- **74° 9'45.58"E**

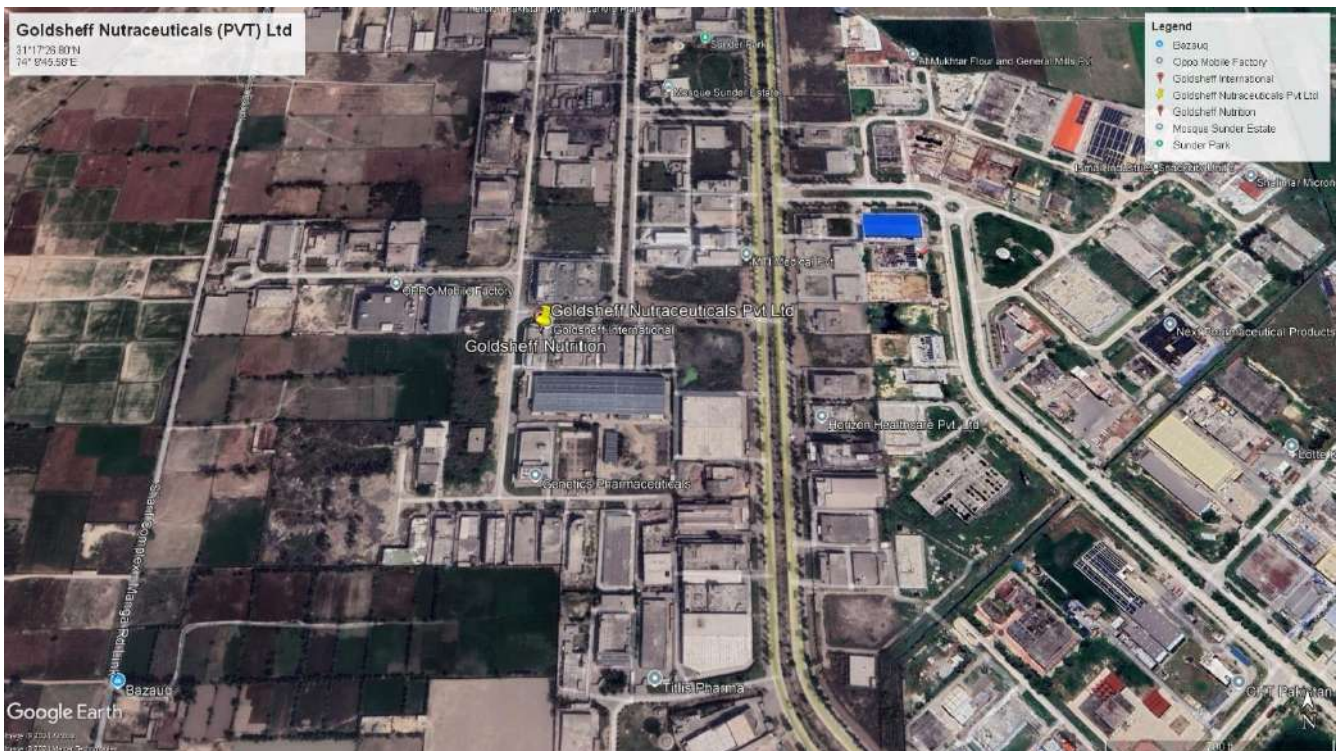
Project land coordinates are as follows:

**North = Access Road**

**South = Industrial Unit**

**East = Industrial Unit**

**West = Access Road**



**Figure 1: Aerial view of the project site**

## SCOPING

### SPATIAL AND TEMPORAL BOUNDARIES OF ENVIRONMENTAL ASSESSMENT

The project falls in Industrial area of district Sundar. This project spans at the area of 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT. Various Industrial Units are already present around the vicinity of the project corridor. The main road along with the project site is Sundar Industrial Estate Road. The following map shows the spatial and temporal boundaries of the project. For further details, Google earth map of the project on A3 page is attached as **Annexure-E** and layout as **Annexure C** with the report.

### IMPORTANT ISSUES AND CONCERNS RAISED DURING CONSULTATION

Important issue and concerns raised by the community during consultation include the impact of waste water released from the treatment plant that may impact the nearby community. The Proponent ensured that process related and domestic wastewater is generated from the said unit that is treated in septic tanks first that is within limits of the PEQS and then disposed of into the nearest drain of Sundar. Hence will not cause any issues to the community The community was also concerned about employment for local people. The proponent made sure

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that maximum job opportunities for plant management and unit operation are provided to the residents.

### **SCREENING**

The said Project; i.e., Already Established pharmaceutical unit falls under Schedule-II category B (Manufacturing and Processing), Clause 2 (Chemical manufacturing unit, including pharmaceuticals and cosmetics), under Punjab Environmental protection (Review of IEE/EIA) Regulations, 2022, hence such projects require submission of EIA Report to obtain Environmental Approval, under Section 12 of Punjab Environmental Protection Act 1997.

## **CHAPTER # 2**

### **ANALYSIS OF ALTERNATIVES**

This Chapter deals with the analytical overview of different alternatives that have been considered. The analysis has been carried out critically so as to justify the need of the Project and to select the most feasible alternative. Besides the economic viability; environmental sustainability and social soundness of the proposed Project has also been considered while analyzing different alternatives.

#### **THE NO PROJECT ALTERNATIVE**

Adopting zero-alternative would mean abandoning all the potential that the site offers to investor(s), contribution to government revenue and even local community livelihoods' improvement.

#### **LOCATION/SITE ALTERNATIVES**

To fulfill the commercial aspects of the project under reference of this EIA Report, it is to be sited at a place where commercial processing 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 other related facilities.

Keeping these requirements and their feasibility and other basic infrastructural requirements, the selected site is ideally suited for the subject unit.

#### **ALTERNATIVE SITE**

No Alternative site has been considered due to insignificant environmental impacts. The proposed site fulfills the site selection criteria of Drug Regulatory of Pakistan, Ministry of health.

#### **REASONS OF REJECTION**

The reasons of rejection of this site are:



- High cost of land
- Nearby human settlements
- Due to the ownership conflict of surrounding land
- No proper communication facility
- Fauna & Floral Species are present at this site in abundance.

### **MODIFIED CONSTRUCTION TECHNOLOGY ALTERNATIVES**

As the said project is already established pharmaceutical unit, there are no construction technology alternatives rather some alteration/renovation of the building will be done

### **TECHNOLOGY ALTERNATIVES**

The company imported brand new machinery from renowned international manufacturers of the world as well as from local market. Machinery is based on latest available technology to produce high quality medicines. The machines are having pollution remove technologies built in. Therefore, it the best option to use that technology.

## CHAPTER # 3

### DESCRIPTION OF THE PROJECT

#### TYPE AND CATEGORY OF THE PROJECT:

Subject project is already established pharmaceutical unit under the name of M/S GoldSheff Nutraceuticals (Pvt.) Ltd located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore. The process cycle of production is based on Granulation, Compression/Encapsulation and Packing (Blister Packing) of medicines. The total cost of the project operations is 7 million rupees and Total area of the plot is 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT. The production capacity of each product in pharmaceutical unit is given below:

<b>Sr.no</b>	<b>Products</b>	<b>Production Capacity/Month</b>
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2	Syrup	4 Lac/month
3	Sachet	2 lac sachet packs (1*10)/month
4	Dry Milk Powder	100k Tin packs/month
5	Cream	1 lac tubes/month

The project falls under category of Chemical Projects mentioned in Schedule-II, Category (B), Clause (2) of Punjab Environmental protection (Review of IEE/EIA) Regulations, 2022, hence such projects require submission of EIA Report to obtain Environmental Approval, under Section 12 of Punjab Environmental Protection Act 1997.

#### OBJECTIVES OF THE PROJECT

Objectives of the construction of the subject project are:



- To establish the business for the proponent.
- To contribute to the national economy of the country.
- Compensate to help poverty by providing employment.

### LOCATION AND SITE LAYOUT OF THE PROJECT:

Subject unit is located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

The Location Coordinates are:

- **31°17'26.80"N**
- **74° 9'45.58"E**

Project land coordinates are as follows:

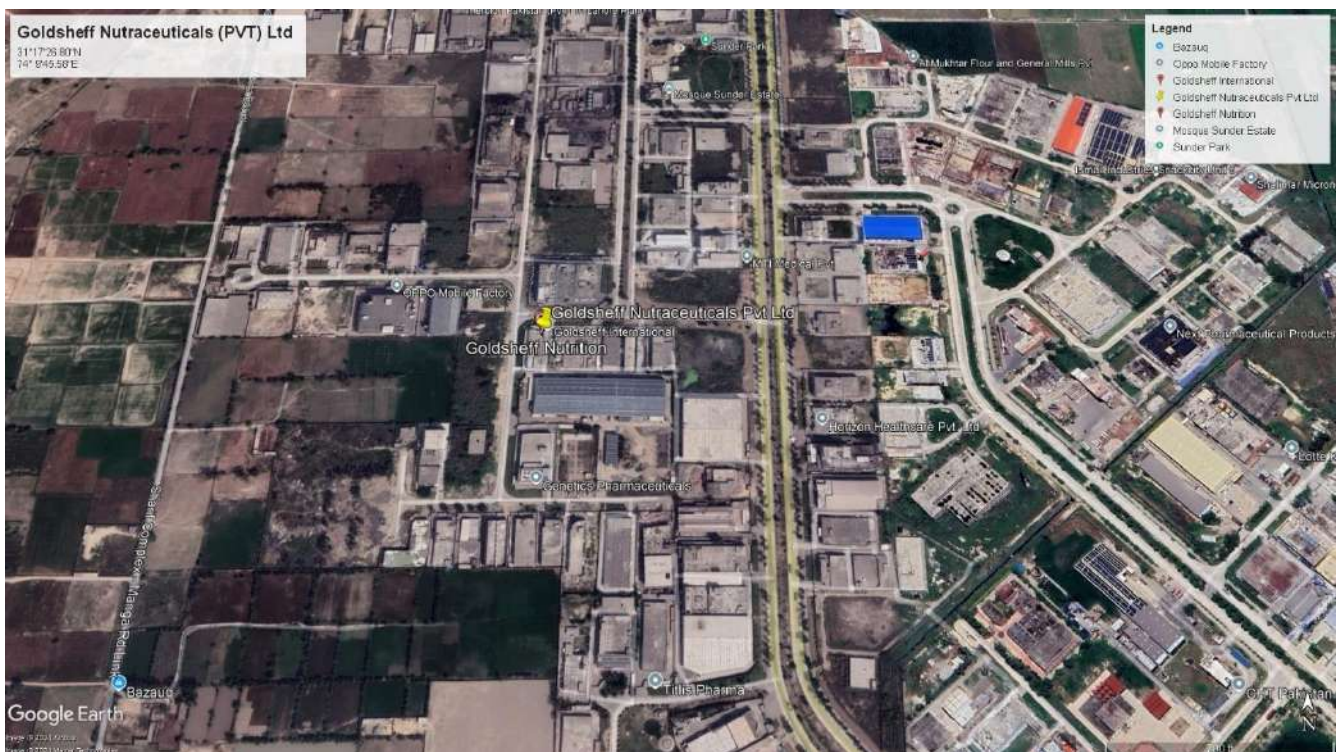
**North = Access Road**

**South = Industrial Unit**

**East = Industrial Unit**

**west = Access Road**

For further details, layout map of the project is attached as **Annexure C**.



### LAND USE ON SITE

Subject project is already established medicinal formulation unit. Area of the unit is industrial because unit is present at Sundar Industrial Estate.

### ROAD ACCESS

Manga Raiwind Road is present on to access the project, because subject project is present in Sundar Industrial Estate.

### VEGETATION FEATURES OF THE PROJECT

The project does not have any significant vegetation features because surrounding of the area is clear.

### COST AND MAGNITUDE OF THE OPERATION

Subject project is the already established pharmaceutical unit in district Lahore. The Cost of operation is 7 million rupees, which will include the cost of machineries, purchasing of raw material, its processing in unit and provision of electricity. There are no other associated activities with regard to the subject project.

### SCHEDULE OF IMPLEMENTATION

The project site is already established pharmaceutical unit.

### DESCRIPTION OF THE PROJECT:

The subject project for which this Environmental Impact Assessment Study has been conducted is already established pharmaceutical unit under the name of M/S GoldSheff Nutraceuticals (Pvt.) Ltd. at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore. The project activities involve the manufacturing of Tablets, Syrups, Sachets, Dry Milk Powder, Cream, over an area of 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT.

### DETAILED PROCESS

The said project is already established pharmaceutical unit located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore. The Subject site of GoldSheff Nutraceuticals (Pvt.) Ltd had been already under the possession of the owner. Sundar industrial estate possession letter attached as **Annexure-B** and Transfer Letter are attached as **Annexure-F**.

The process cycle of production is based on Granulation, Compression/Encapsulation and Packing (Blister Packing) of medicines. The water is used for production of syrup and line

washing purpose. The process related wastewater is treated through the wastewater treatment facility. About 20-man power is required during operation phase of this said pharmaceutical unit. The said project will have modern air cleaning system (Heating Ventilation and Air Conditioning System) for control of dust and vapors during operation phase.

### **COMPONENTS OF SAID PROJECT:**

- Tablets
- Syrups
- Sachets
- Milk
- Cream

### **RAW MATERIAL:**

Materials used in the pharmaceutical industry given below:

- Agnus Cactus
- Algae Calcium Carbonate
- Boron
- Chamomile Extract
- Caster Oil Powder
- Cinnamomum Zeylanicum
- Chondroitin Sulphate
- Copper Sulphate
- Citicoline
- Flaxseed Oil Powder
- Green Tea Extract
- Glucosamin
- Small Honey
- Hyaluronic Acid
- Iodine
- Lactase Enzyme
- Lycopene
- Mearoot
- Amomum Subulatum

The list of raw materials is attached as **Annexure-G** with this report.

### **MACHINERY:**

The list of machinery is attached as **Annexure-H** with this report.

### **PRODUCT DETAIL:**

Product detail of GoldSheff Nutraceuticals (Pvt.) Ltd is as follows.

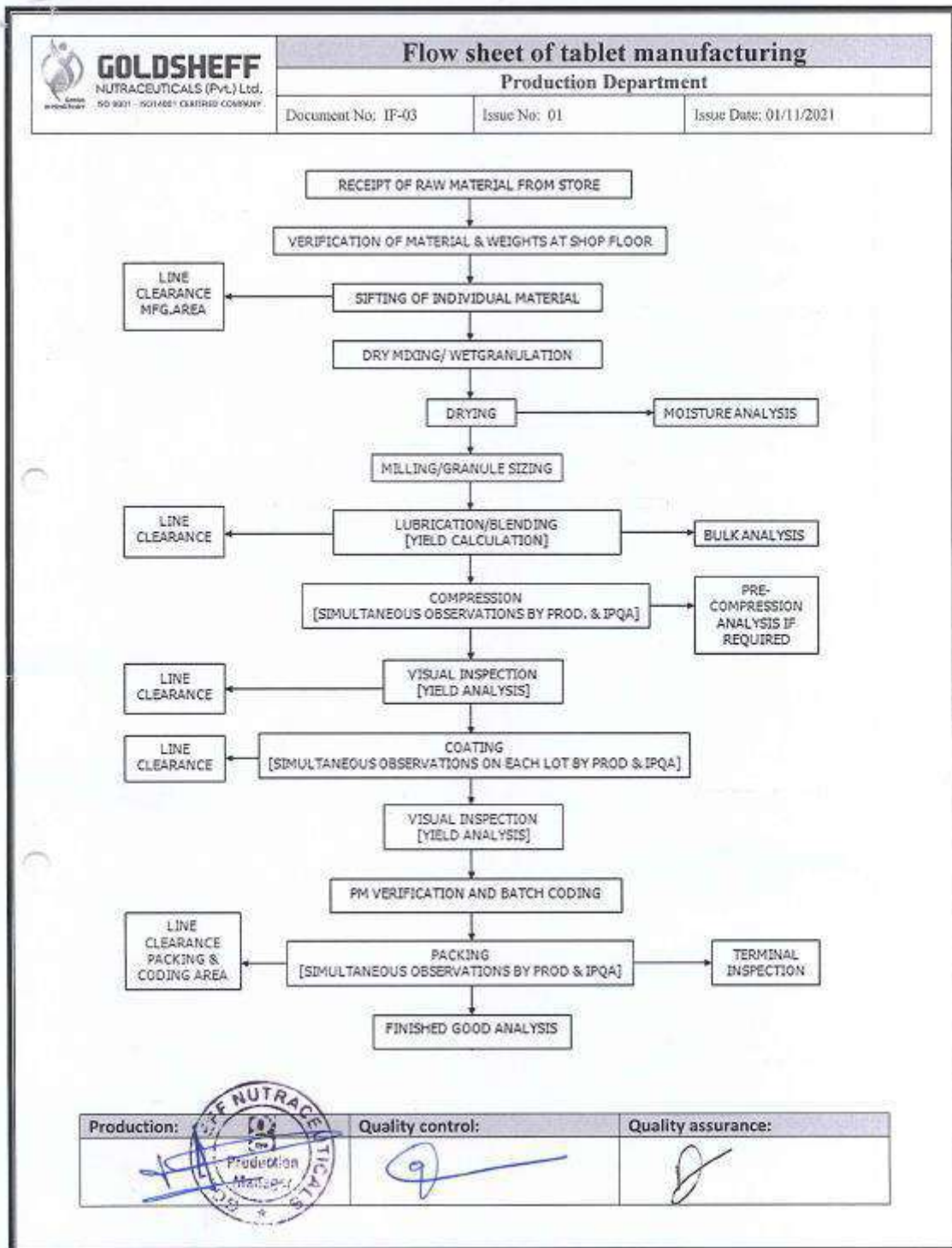
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**FINAL PRODUCTS**

- |                   |
|-------------------|
| • Tablets         |
| • Syrups          |
| • Sachets         |
| • Dry Milk Powder |
| • Cream           |

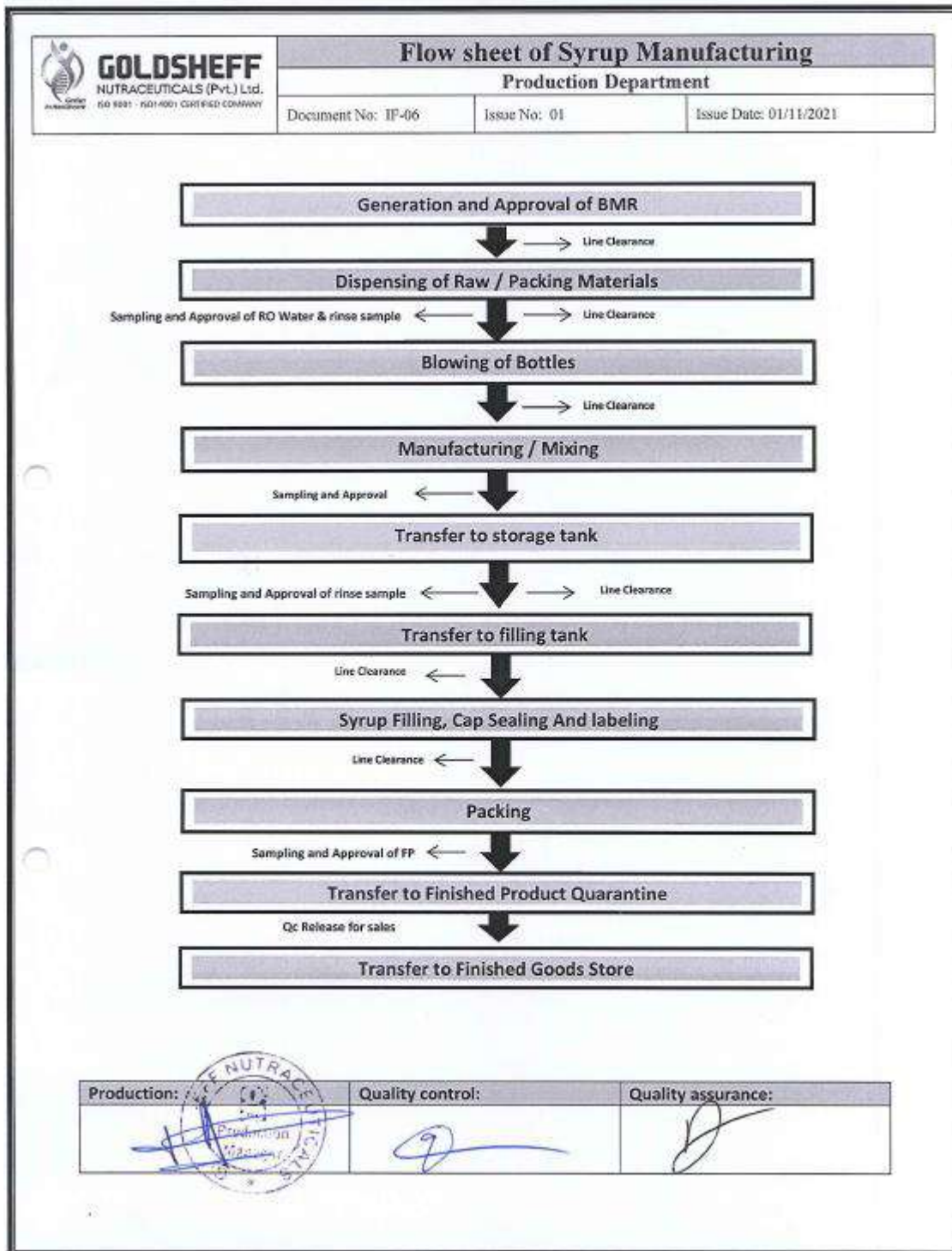
**PROCESS FLOW:**




**FLOW PROCESS OF TABLET MANUFACTURING:**



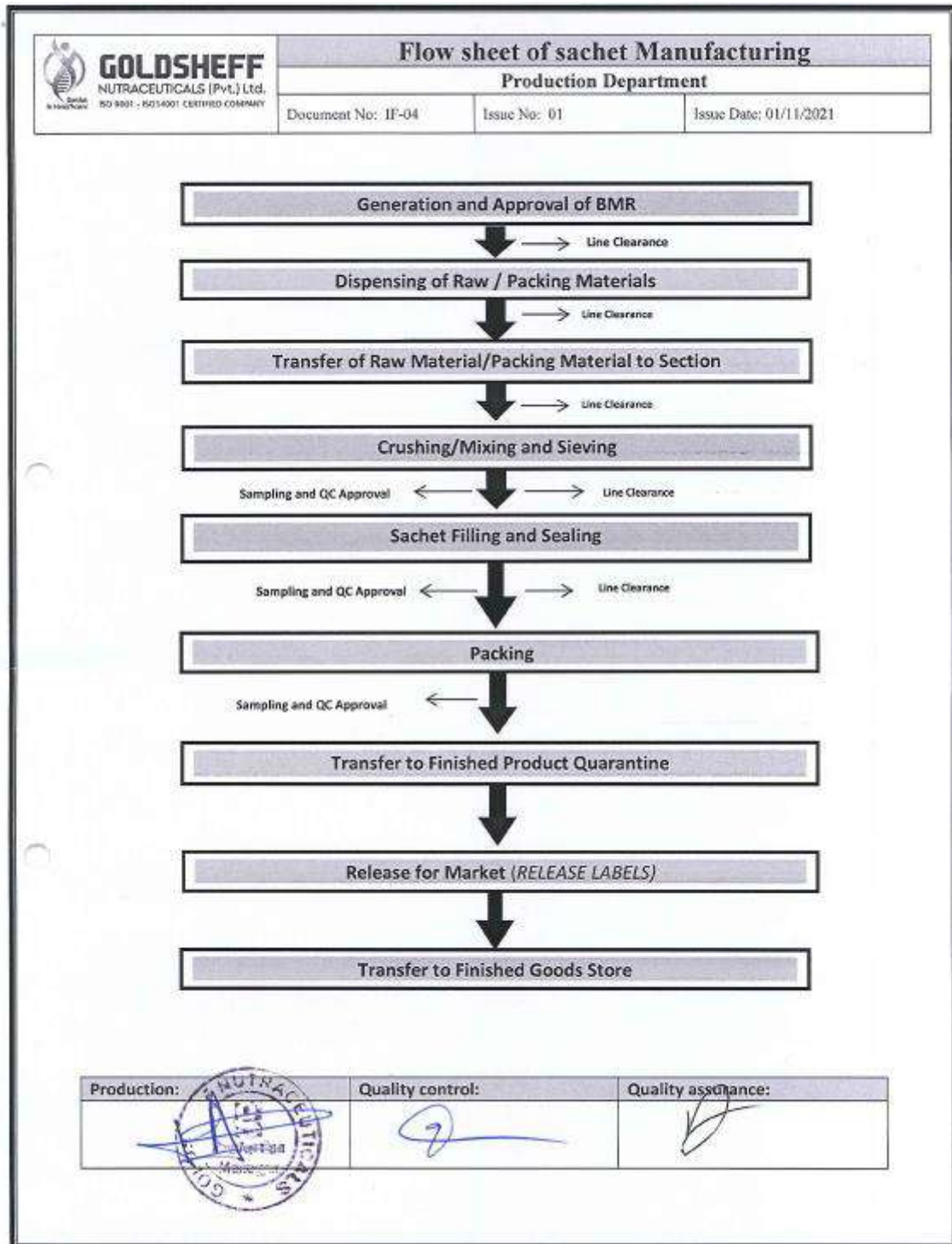
<b>Production:</b>	<b>Quality control:</b>	<b>Quality assurance:</b>
		

**FLOW PROCESS OF SYRUP MANUFACTURING**

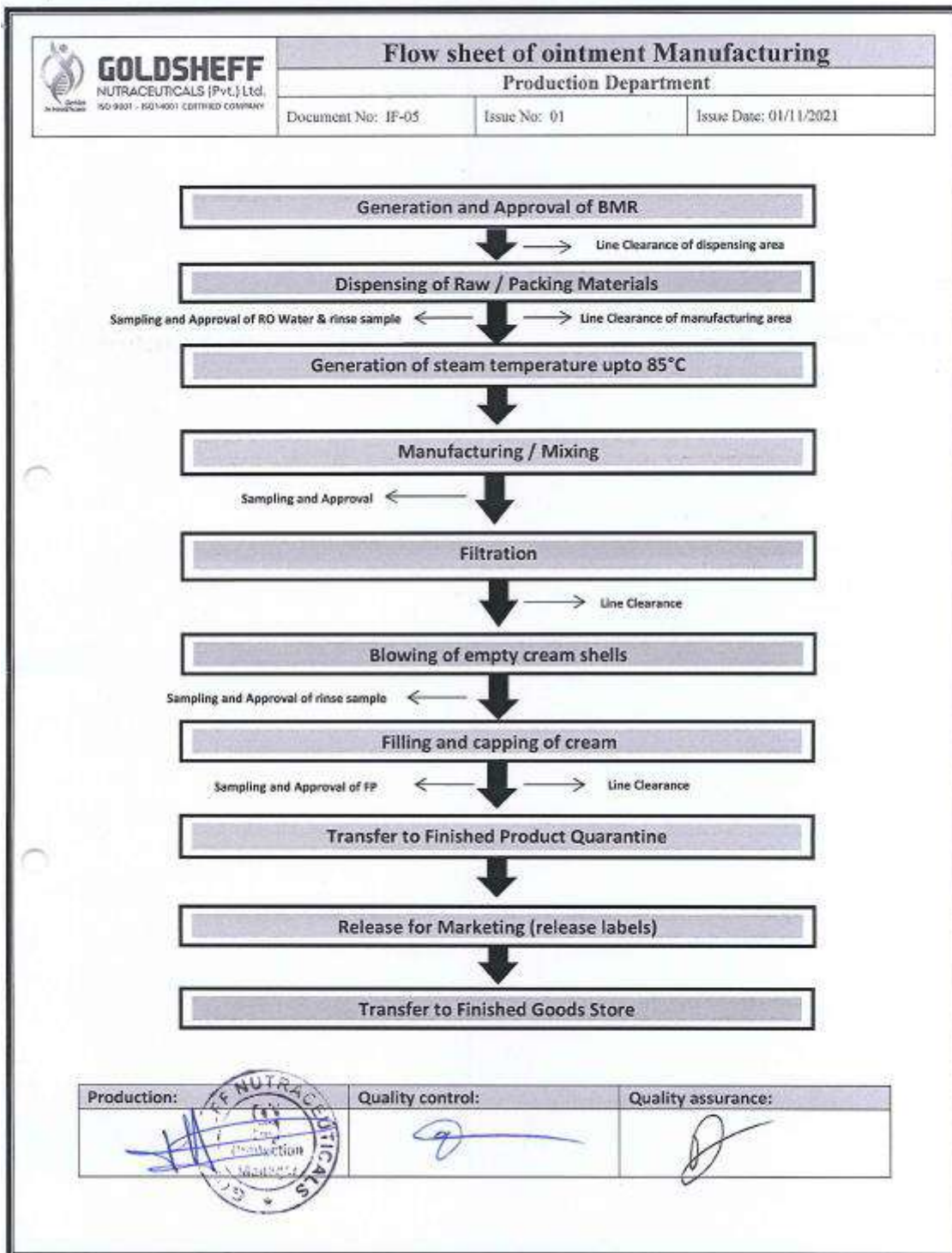





<b>Production:</b>	<b>Quality control:</b>	<b>Quality assurance:</b>
		

**FLOW PROCESS OF SACHET MANUFACTURING:**

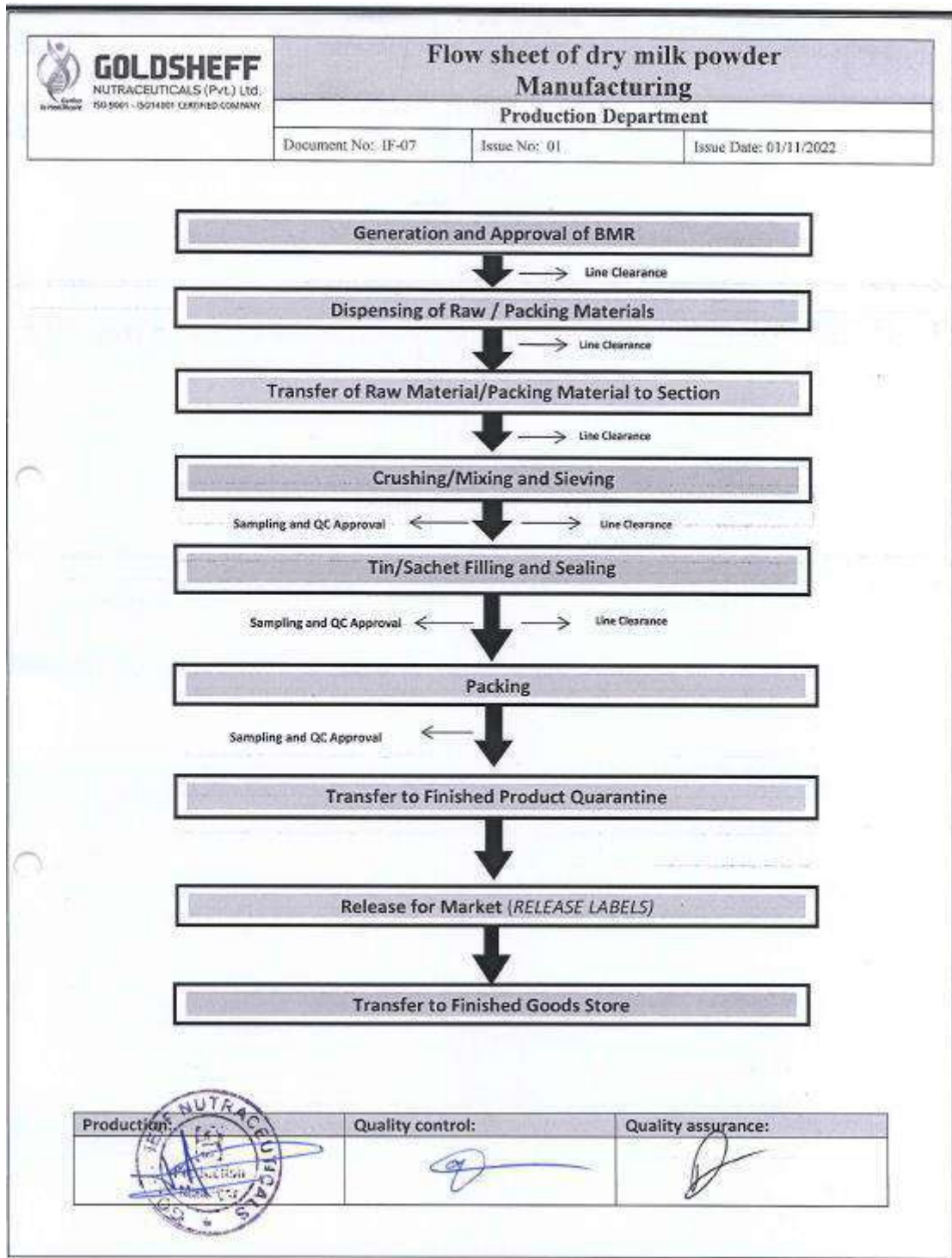


**FLOW PROCESS OF OINTMENT MANUFACTURING:**



<b>Production:</b>	<b>Quality control:</b>	<b>Quality assurance:</b>
		

**FLOW PROCESS OF DRY MILK POWDER MANUFACTURING:**



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Flow charts of the manufacturing of different products of M/S GoldSheff Nutraceuticals Pvt Ltd are attached as **Annexure-I**.

### **WATER REQUIREMENTS:**

During the operational phase of the project water will be used according to batch requirement. Also, domestic wastewater will be generated from the site.

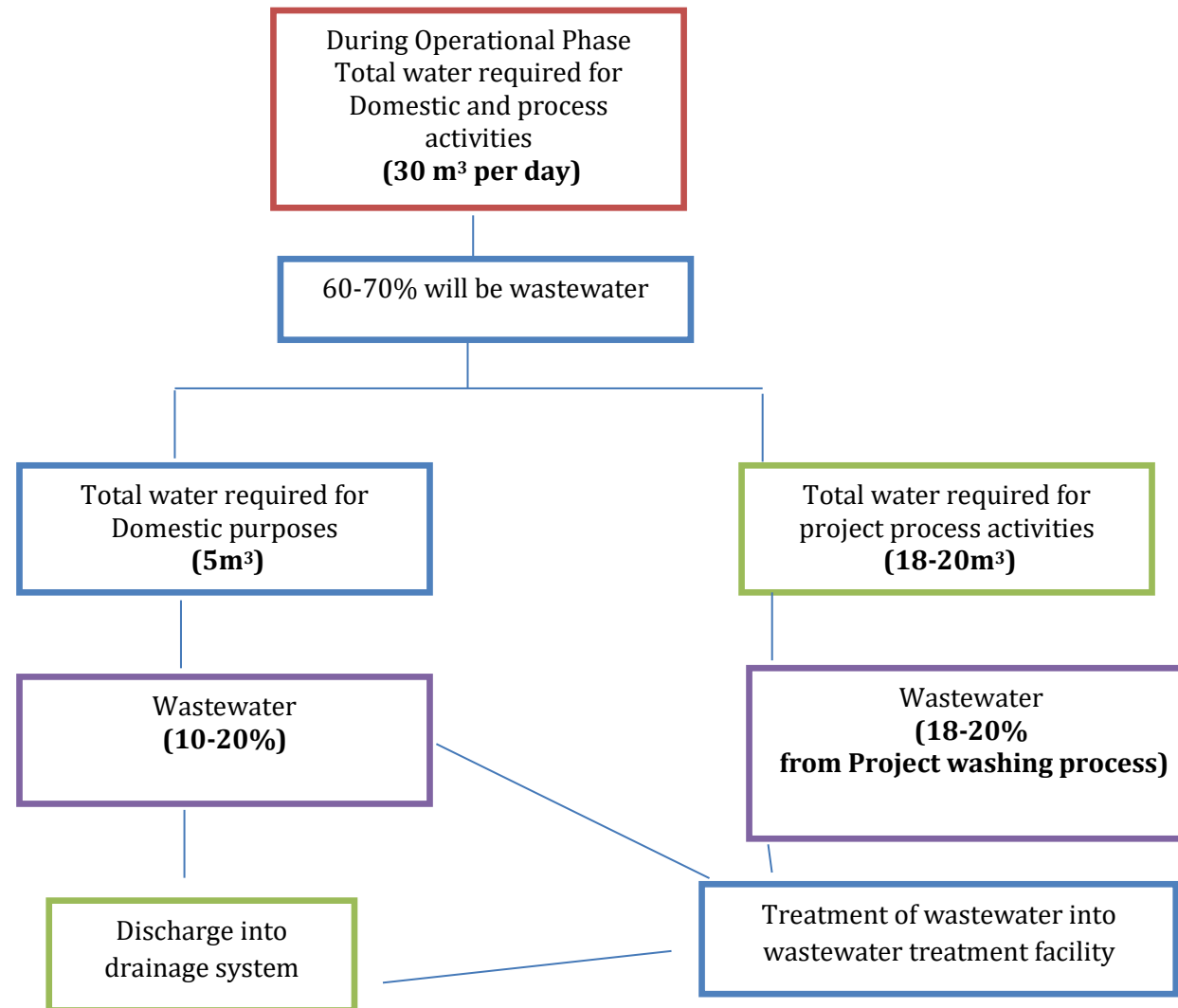
### **WASTE WATER TREATMENT:**

60-70% of the used water is the waste water which is treated through the wastewater treatment facility. After treatment wastewater is disposed of in nearby drain of Sundar industrial estate. And no wastewater is disposed of into local drain without having treatment.

### **WASTEWATER DRAIN:**

The project site is located at Sundar Industrial Estate. After the treatment the wastewater is disposed of in the nearby drain.

**Estimated Water Balance:**



**Estimated water balance**

### **SOLID WASTE:**

According to an estimate, approx. 560 kg/day domestic and project related solid waste produced during the operation phase of the project (based on solid waste generation rates of 0.45 kg/capita/day urban waste generation). Project related waste is handed over to local contractor.

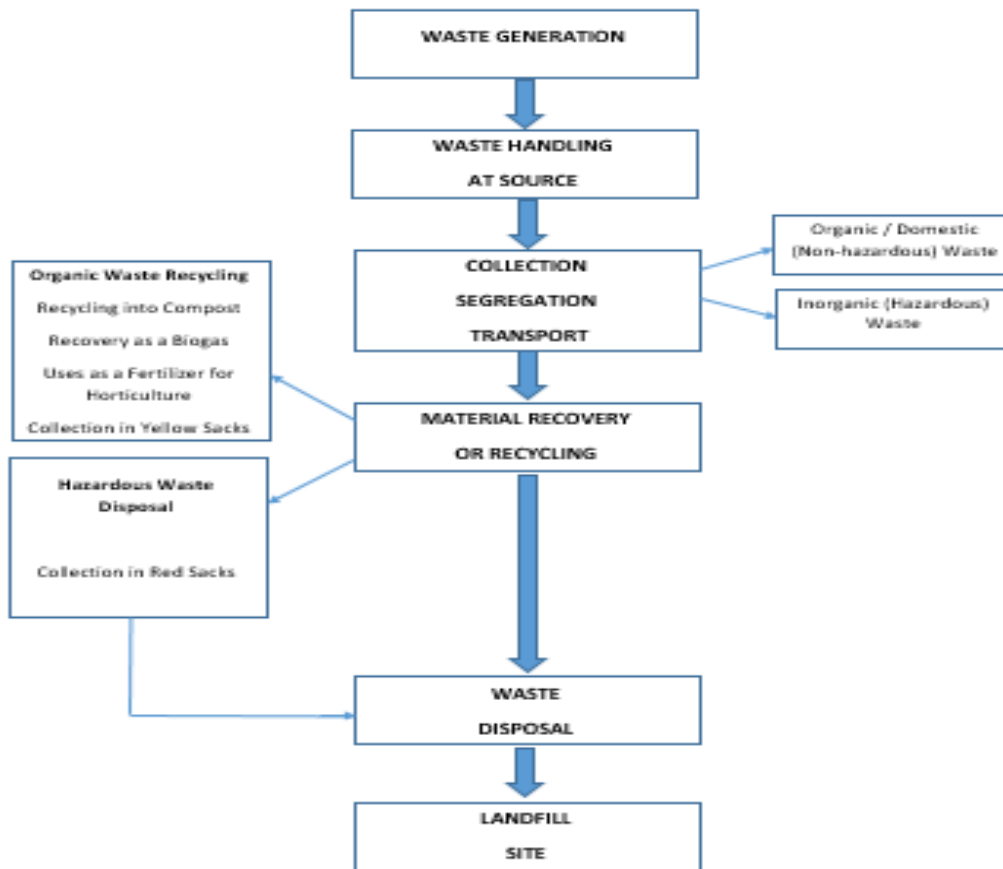
### **SOLID WASTE MANAGEMENT SYSTEM/PRACTICES**

The Solid waste is managed in proper way by following operations:

- Placement of separate waste bins for domestic and project related waste in all working halls and designated points.
- Collection of waste from all the working halls at one designated point by the sanitary workers on daily basis.
- Collected waste is handed over to the solid waste contractors for its final disposal, from this point.

### **FLOW CHART OF SOLID WASTE MANAGEMENT PLAN:**

**SOLID WASTE MANAGEMENT FLOW DIAGRAM**



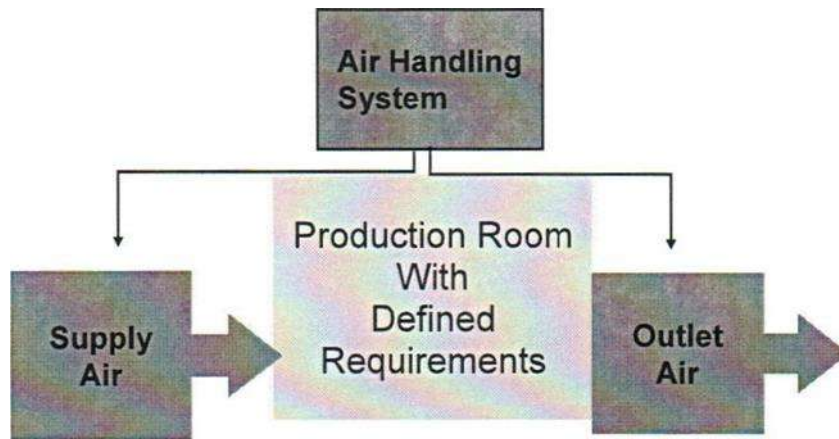
**VENTILATION SYSTEM FOR MAINTENANCE OF INDOOR AIR QUALITY:**

Roof overhangs, window size and placement, and overall building shape is designed in a way to ensure good ventilation. The placement of porches, garages, trees is also be ensured throughout the project activities.

**TREATMENT SYSTEM FOR INDOOR AIR QUALITY:**

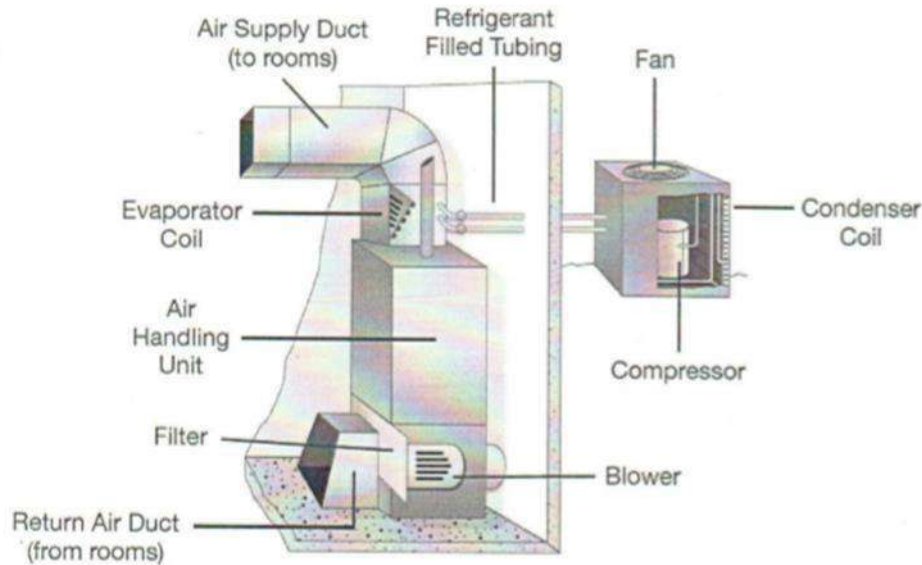
The manufacturing process environment is critical for product quality in pharmaceutical units. It depends on following factors.

- Light
- Temperature
- Humidity
- Air movement
- Microbial contamination
- Particulate contamination
- Uncontrolled environment can lead to product degradation



### **HEATING VENTILATION AND AIR CONDITIONING SYSTEM (HVAC):**

This system is used to provide heating and cooling services to buildings. HVAC is an important part of residential structures such as single-family homes, apartment buildings, hotels and senior living facilities, medium to large industrial and office buildings such as skyscrapers and hospitals, on board vessels, and in marine environments, where safe and healthy building conditions are regulated with respect to temperature and humidity, using fresh air from outdoors. Ventilation is the process of exchanging or replacing air in any space to provide high indoor air quality which involves temperature control, oxygen replenishment, and removal of moisture, odors, smoke, heat, dust, airborne bacteria, carbon dioxide, and other gases. Ventilation removes unpleasant smells and excessive moisture, introduces outside air, keeps interior building air circulating, and prevents stagnation of the interior air. The said pharmaceutical unit have HVAC system in Production area.it maintained the temperature and air quality of process area during winter and summer season.



P.P: View of HVAC system diagram

#### **HEPA Filter:**

High-efficiency particulate matter arresting or high-efficiency particulate air, is a type of filter. It can remove wide range of airborne contaminants, including fine dust, smoke and vapors. Aluminum filter along with HEPA filter is installed before air duct with removal efficiency 99.99%.it captured fine dust, air born contaminants and vapors.



P.P: View of HEPA Filter

#### **MITIGATION MEASURES TO CONTROL THE EMISSIONS OF GENERATORS:**

- i) Firstly, usage of the generator made up of latest and environment friendly technology is being ensured at the unit.
- ii) Standard fuel is being used in the generator.

- iii) Proper and regular tuning of the generator is done.
- iv) Double glazed glass and thick walls canopy of the generators has been installed which will limit the emissions of the noise.

All these measures will ensure the PEQS compliance of generators and emissions will not exceed the limits.

### **PARKING AREA**

Parking area has been made available within the unit for cars, motorcycles, trucks etc.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Following PPEs are provided to the workers in the unit:

- Dust Mask
- Ear Plugs
- Safety Boots
- Safety Gloves
- Safety Belt
- Helmet
- Goggles

### **TYPES OF PPES USED DURING OPERATIONAL ACTIVITIES**

<b>Protection</b>	<b>Occupational Hazards</b>	<b>PPEs</b>
Head Protection	Falling objects, inadequate height clearance, and overhead power cords	Helmets with or without electrical protection
Hand protection	Hazardous material, cuts or lacerations, vibrations, extreme temperatures	Synthetic or Rubber gloves, leather, insulating material etc.
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation	Glasses, shield protective, etc.
Hearing protection	Noise, ultra sound	Hearing protectors like ear plugs, ear muffs
Respiratory protection	Dust, fogs, fumes, gases, smokes, vapors, oxygen deficiency	Facemasks or air supply

Body protection	Extreme temperatures, hazardous materials, biological agents, cutting and laceration	Aprons, insulating clothing etc. of appropriate materials
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The unit is secured with the presence of security guards round the clock which improves the security of the project site and also in its vicinity.

### **INDUSTRIES:**

Project is present in Industrial area and many industries are present around the unit.

### **POWER SOURCES AND TRANSMISSION:**

Estimated power requirements of the unit are provided by WAPDA.

### **AVAILABLE FACILITIES**

Available facilities at unit are:

- Electric supply from WAPDA
- Solid Management (SWM)
- Line and cellular telephone facilities
- Water supply, sewerage disposal and drainage systems

### **RESTORATION / REHABILITATION PLAN**

All possible precautions are 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 termite proofed.

All measures are undertaken for ensuring occupational safety, security and clean environment in the project area. Ornamental trees and flower plants are planted on inside peripheral of the unit premises to restore the land.

### **GOVERNMENT APPROVALS REQUIRED BY THE PROJECT:**

All the approvals had been obtained by the project proponent and their copies are attached with this EIA report. All relevant approvals are attached as **Annexure-K**.

## **CHAPTER # 4**

### **DESCRIPTION OF ENVIRONMENT**

This section describes the baseline conditions, which cover the existing Physical, ecological and socio-economic environment of the project as well as study area. Data was collected by reviewing secondary data and field survey.

#### **PHYSICAL ENVIRONMENT:**

##### **TOPOGRAPHY & GEOGRAPHY**

The geography of Lahore comprises the various features relating to the land and climate of Lahore, Pakistan. Lying between 31°15'—31°45' N and 74°01'—74°39' E, Lahore is bounded on the north and west by the Sheikhpura District, on the east by Wagah, and on the south by Kasur District. The Ravi River flows on the northern side of Lahore. Lahore city covers a total land area of 1014 km<sup>2</sup> and is still growing.

The topography of the site is almost flat and slopes upward gently from north to south i.e. moving upwards when reaching the canal and vice versa.

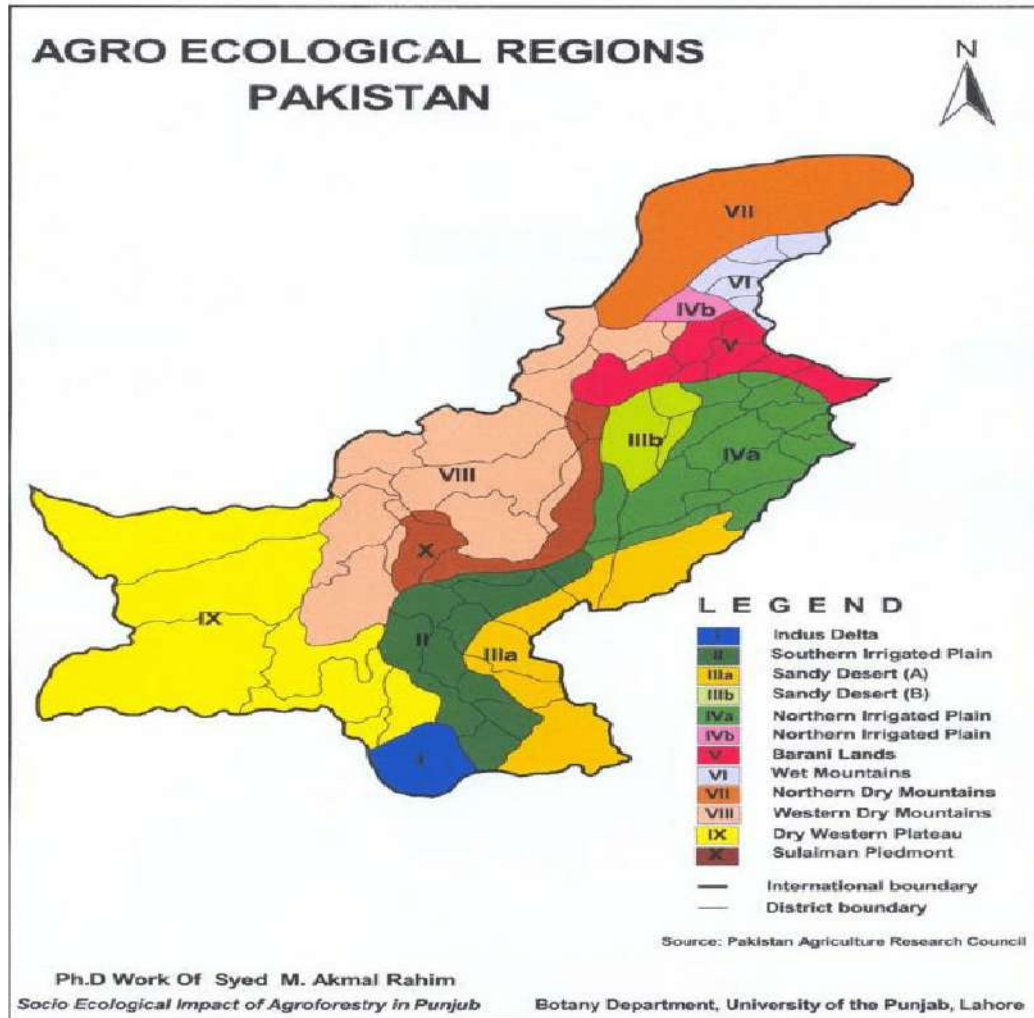
Lahore is the capital of Pakistan's largest province, Punjab; with a population exceeding 10 million, it is a megacity and ranked as the country's second largest metropolis (after Karachi). Collectively, it is also the fifth largest city in South Asia and the 26th largest city in the world in terms of population. As a major urban center of Pakistan, it was graded in 2008 as a city with high sufficiency to become a Gamma world city

##### **LAND-USE**

The land use of the Project Area is mainly industrial as it is industrial estate. Also, it is surrounded by industrial area.

##### **GEOLOGY AND SOILS**

The agro-ecological zones of the country are presented in Exhibit-3.1. The project site falls under Zone-IV (b); the zone generally comprises sandy loam, and clayey loam.



**Figure 0-1: Agro-ecological zones of the country**

Lahore plains are most probably underlain by the Potwar stratigraphy, but it would be deeply eroded. The geotechnical properties and mineralogical composition of the soil, as established during various studies / boring of tube wells for water supply by WASA/LDA confirm that the Lahore soil is composed of silty clay. The major mineral composition for Lahore soil is Quartz, Muscovite and Clinocllore, which shows that the alluvial deposit received sediments from metamorphic origin.

In general, subsurface stratigraphy at the site consists of three basic lithological units as given below:

- Lean Clay/Silty Clay
- Sandy Silt/Silt
- Silty fine Sand/fine Sand

These soils are the alluvial deposits of the recent geologic times. The subsurface stratigraphy is as discussed below:

- The first soil unit of brown silty clay/lean clay forms the topsoil cover at the site at all the locations and generally continues to a depth of 1.0 m-3.5m below top of ground. This stratum contains trace fine sand and trace to little concretions at places. It is present in a soft to a stiff state of consistency and has low to medium plasticity.
- The second soil unit of brownish grey sandy silt/silt underlies the upper silty clay/lean clay stratum. This layer has a thickness of 1.0 to 3.0m and is present in a firm state.
- The third soil unit of brownish grey non-plastic fine silty sand underlies the silt/silty sand stratum. It is present in a loose to medium-dense state.

The lithological distribution of soils consists of slightly cohesive, generally firm to stiff silty clay lean clay from 1.0 to 3.5m depth, followed by firm to stiff sandy silt/silt of 1.0 to 3.0m thickness in turn followed by medium dense silty fine sand. Groundwater is present at a depth of 4.5 to 5.0m below top of ground.

The subsurface generally appears suitable for supporting light to medium loads through spread foundations placed at 1.0 to 2.0m depth. Besides, some isolated weak spots are also expected, which will require special measures to be adopted.

## **SEISMOLOGY**

Earthquake is generated by tectonic process in the upper part of the earth called lithosphere, which is divided into several rigid parts called “Plates”. Due to the movements of these plates, stress build up takes place and result in the deformation of the crustal mass.

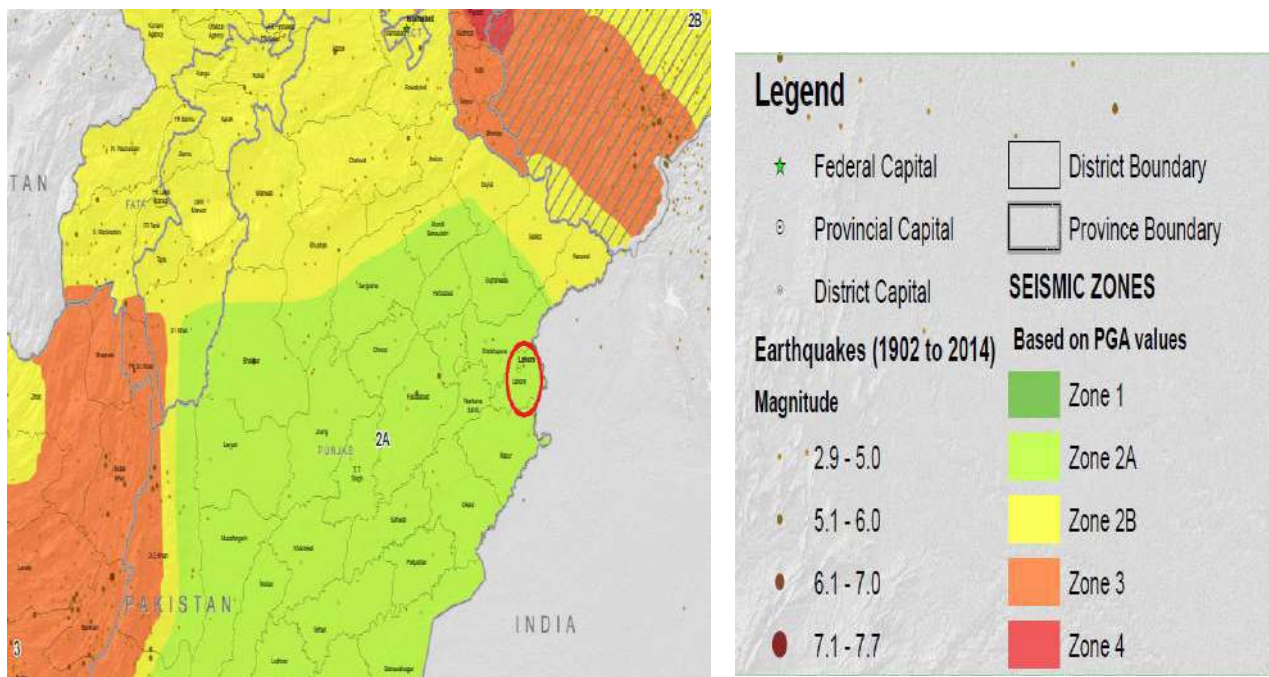
On the basis of Peak Ground Acceleration (PGA) values obtained through Pakistan Seismic Hazard Assessment (PSHA), Pakistan is divided into 5 seismic zones in line with the Uniform Building Code (UBC) 1997.

The boundaries of these zones are defined on the basis as shown in Table 4-1

**Table 0-1: Probabilistic Ground Acceleration (PGA) Values of Seismic Zones of Pakistan**

Horizontal Zone	PGA (g)
1	0.05-0.08
2A	0.08-0.16
2B	0.16-0.24
3	0.24-0.32
4	>0.32

As per Building Code of Pakistan (BCP) 2007 (Seismic Provisions), the proposed Project falls entirely in the zone 2A, which is the regions of moderate seismic risk (Figure). Hence all the applicable provisions related to Soil and Foundations, Structural Design Requirements and with the Structural Concrete of BCP should be considered in the design of the structures.



## CLIMATE

## TEMPORAL DIVISION OF THE COUNTRY

The temporal division of the country is exhibited below:

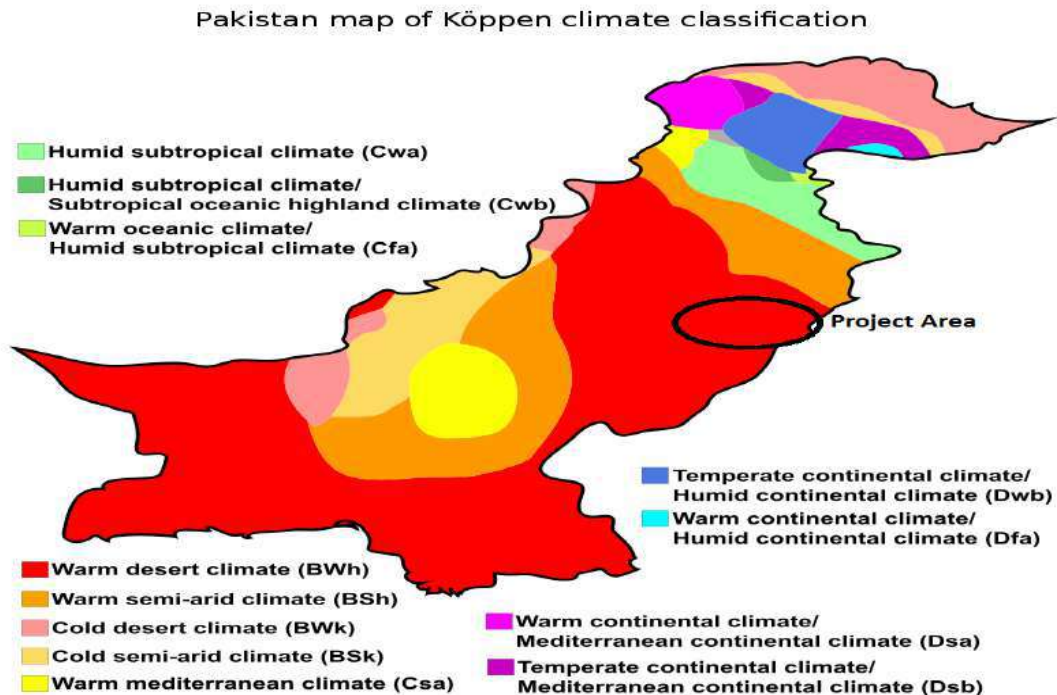


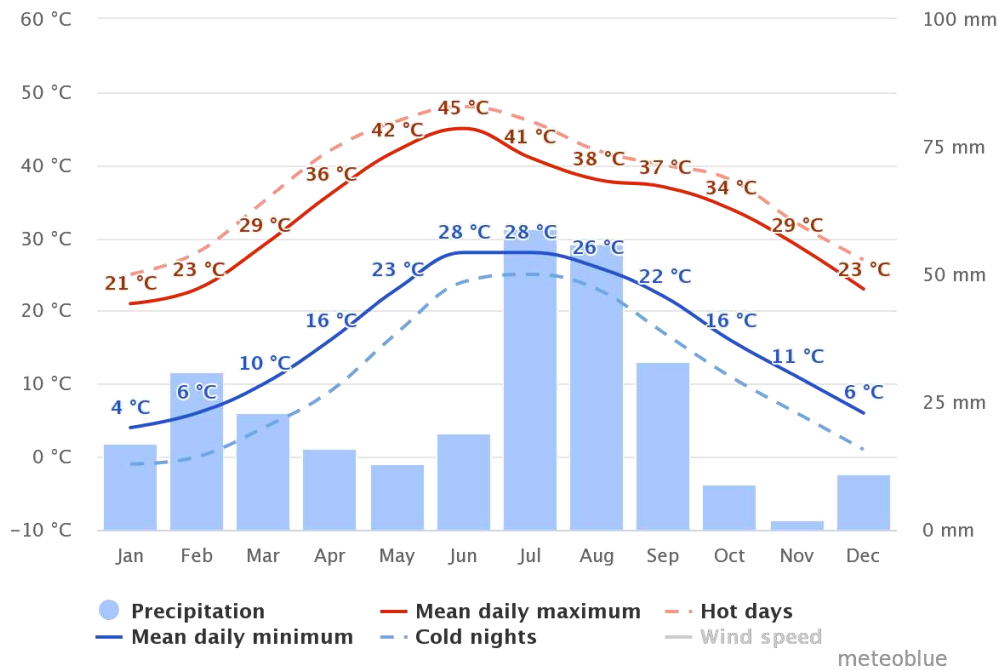
Figure 0-2: Temporal Division of Country

It is noted from the above map that the project site falls under hot long summers and mild short winters.

## TEMPERATURE

### MEAN MAXIMUM TEMPERATURE

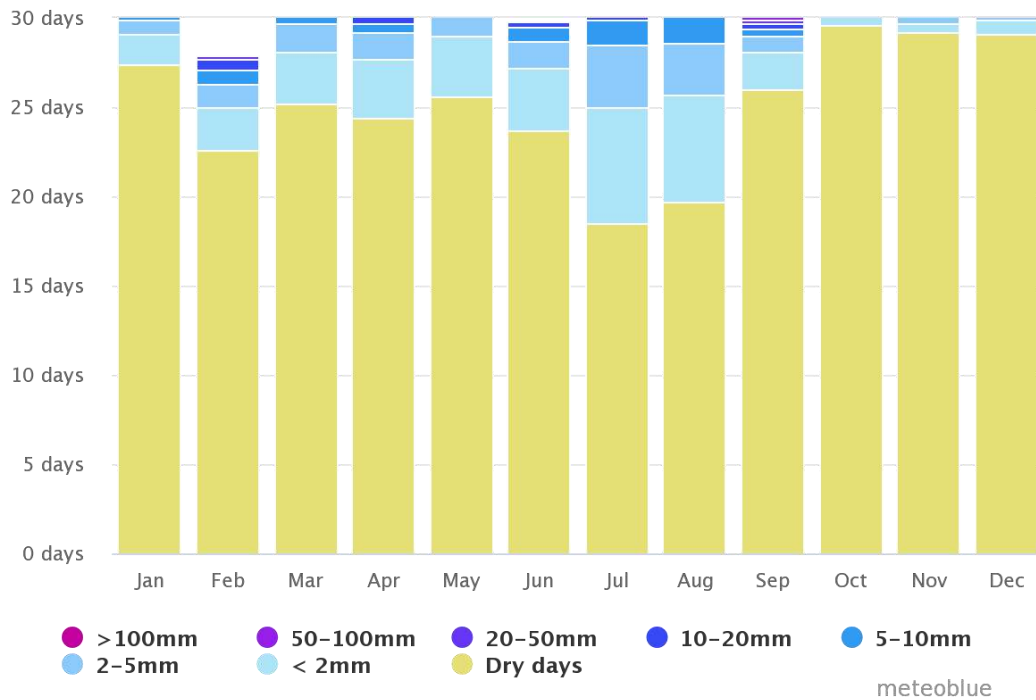
The mean maximum annual temperatures in the country are presented in Exhibit-3.2. It is noticed that the city of Lahore falls under 25-30-degree Centigrade temperature. As such, the location is in a relatively cooler area than southern part of the country.



**Figure 0-3: Mean and Maximum Temperatures**

**RAINFALL**

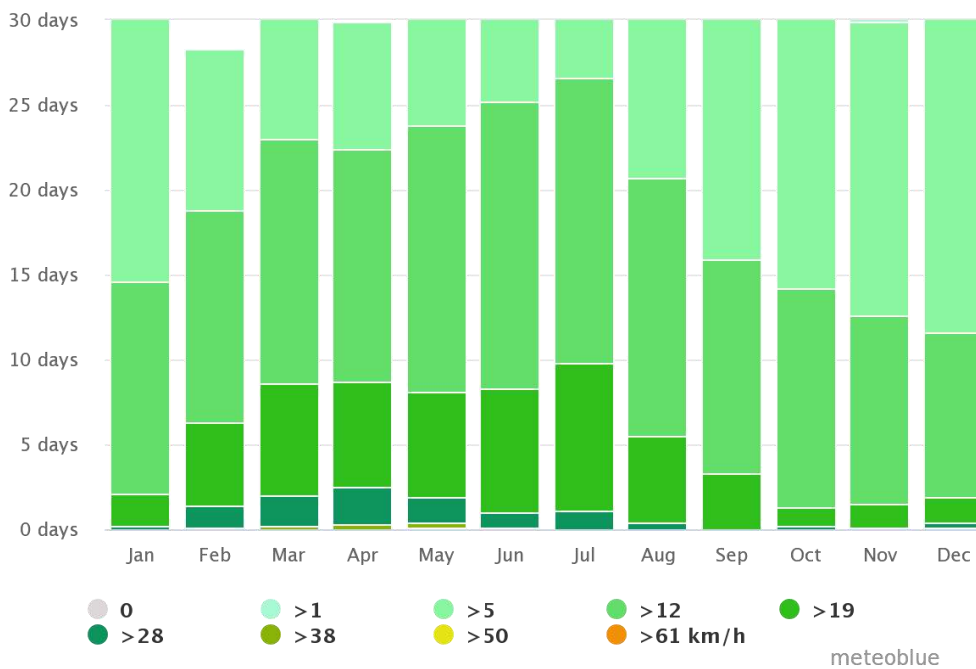
Lahore mainly receives its rainfall during the monsoon season from June till September, and in winter season from December till February. The highest-ever annual rainfall in Lahore was recorded in 2011 when 1,576.8 millimeters (62.08 in) of rainfall was recorded. Lahore received below normal rains in 2009 and normal rains in 2007 and 2010. The following is the Annual rainfall in Lahore since 2007 based on data from the Pakistan Meteorological Department.



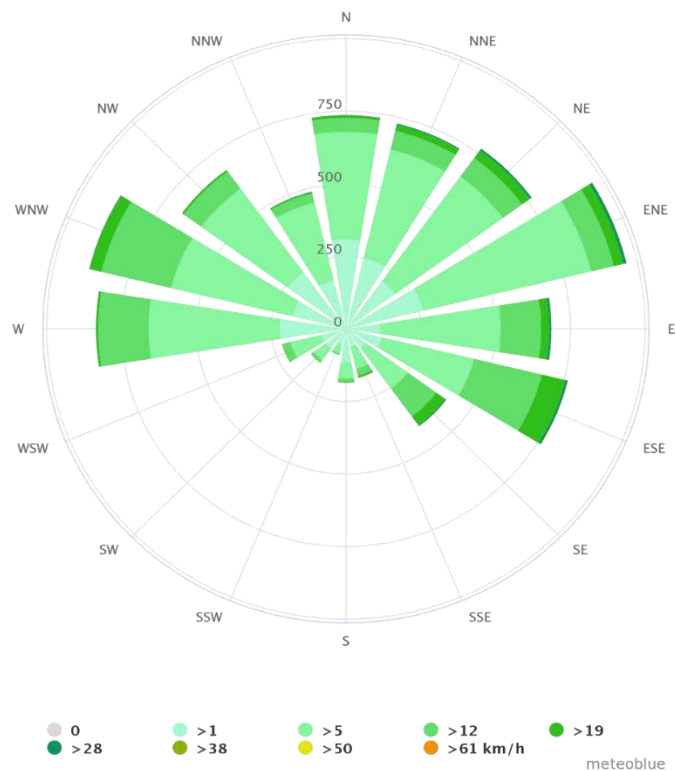
**Figure 0-4: Rainfall Amount**

**WIND DIRECTION**

60% days of the year are calm and 33% days have mean speed of 1-3 knots. Only 6% day's exhibit speed of 4-6 knots and higher. Wind directions are from north-west and south-east during summer and winter respectively. Summer winds bring monsoon rains.



**Figure 0-5: Wind Direction**



**Figure 0-6: Wind Rose**

## **WATER RESOURCES**

### **SURFACE WATER**

No rivers exist in the vicinity; however, storm water drains cross the route for disposal into the Ravi River. Water from River Ravi, flowing on the northwestern side of the city of Lahore, is being used for other purposes other than drinking purposes. River Ravi receives almost all the municipal/ industrial wastes from the city of Lahore. The potential value as a recreational water body and breeding place for fish is threatened by the municipal and industrial pollution.

### **GROUND WATER**

Ground water quality is fresh (defined as acceptable in terms of its salinity). Raw water abstracted from the deep tube wells is believed to be essentially bacteria free. The water quality in the upper 50 meters zone of subsoil is generally brackish.

For city's drinking purposes water is abstracted from groundwater aquifer by means of tube wells located throughout the city. The quality of water is generally adequate for direct consumption. About 83% of city population is consuming groundwater for drinking purposes.

Groundwater is available at a depth ranging between 15 to 23m below the natural surface level. Deep groundwater from a depth of about 210m in the vicinity of the Project Area is being extracted for meeting the domestic and commercial water demands in nearby areas.

Adequate quantity of good quality groundwater is available below a depth of 50m. Water consumption varies significantly and its variation as of industrial units. Usual water consumption pattern for industrial units and data collected from the prospective industrialist will form basis for total water demand.

According to Master Plan-2030 for the city of Lahore, the mean average decline in ground water is about 2.03 feet per year. It is noted that ground water is at a greater depth in the central part of the city where abstraction is more than the re-charge and close to surface waters i.e. Ravi River and Canal, the situation is in the reverse order.

## **ECOLOGICAL ENVIRONMENT**

This section describes the biodiversity existing ecosystem and existing ecological conditions in the Project AOI. This section also enlists the fruit and non-fruit trees (forest trees), wildlife species and identifies those that need protection.

### **FLORA**

Lahore, the city of gardens is heart of Pakistan. The city has seen the heydays of the Mughals, Sikhs and the British; all left their footprints on the history and cultural mosaic of the city. Resultantly Lahore is a treasure-trove of monuments, historical relics and remains which these nations have left in this historical metropolis of Punjab.

Though an ancient city; over the years Lahore has considerably expanded. However, along these modern additions, the ancient monuments, old gardens, trees, graveyards and traditional bungalows having attached gardens, large expanses of lawn and old roadside trees some of them can still be seen, are gradually disappearing. These green areas and old endemic trees of Lahore are home to many resident bird species as well as many summer, winter and transit migrants. So, Lahore is also very important due to its ecological conditions.

## **FAUNA**

Common birds found in the area are crows and sparrows. Domestic animals are seen grazing in the agricultural land as well as on the project site. Chirping birds are having their nests at the well grown trees that are providing a natural habitat for the birds. Some squirrels, parrot, rats, weaver, sparrows are also found in the area.

Different species of reptile and amphibians such as lizards and frogs are also found. Various bird species known to occur in the area include myna, bulbul, crow and sparrow.

## **CURRENT SOCIO-ECONOMIC CONSIDERATIONS**

### **GENERAL**

This section deals with the social conditions of the Project Area. During the desk/ office study, available reports/ documents were comprehensively studied. During the field survey interviews with the residents, shopkeepers, students, pedestrians, drivers, and hospital employees were held and observations were taken after giving due consideration to the desk/ office study results.

### **ADMINISTRATIVE SETTINGS**

The project area falls in Lahore City of the Lahore District. District Co-ordination Officer is the highest ranked administrator of the district. For the collection of revenue and administration, the districts are subdivided into Tehsils. Local governments also administer the area through Union Councils and Tehsils. The total area of the district Lahore is 2,300 square kilometers.

### **DEMOGRAPHICS**

The total population of Lahore District was 6,318,745 as enumerated in March 1998 with an intercensal percentage increase of 78.3 since March 1981 when it was 3,544,942 souls. The average annual growth rate of population in the district during intercensal period 1981-1998 was 3.5 percent. The total area of the district is 1772 square kilometers, which gives population density of 3,566 persons per square kilometer as against 2000 persons observed in 1981 indicating a fast growth rate of the district.

### **RELIGION**

The population of the district is predominantly Muslims i.e. 93.9 percent. The next higher percentage is of Christians with 5.8 points followed by Ahmadis 0.2 percent. While other minorities like Hindu etc.

## **PUBLIC TRANSPORT**

Lahore is one of the most accessible cities of Pakistan. In addition to the historic Grand Trunk Road (G.T. Road), a Motorway (M-2) was completed in 1997 from Lahore to Islamabad. The government has built underpasses to ease congestion and prevent traffic jams, and according to official figures, Lahore has the highest number of underpasses in Pakistan.

## **RAILWAYS**

The Pakistan Railways headquarters is located in Lahore. Pakistan Railways provides an important mode of transportation for commuters and connects distant parts of the country with Lahore for business, sight-seeing, pilgrimage, and education. The Lahore Central Railway Station, built during the British colonial era, is located in the heart of the city.

## **RURAL – URBAN MIGRATION**

The total number of life time in-migrants in Lahore district was 1,034,848 or 16.4 percent of the population of the district. Of total life time in-migrants 890,427 persons settled in the towns. Of total district migrant's 71.7 percent came from other districts of the Punjab, 10.1 percent were from Sindh, NWFP and Baluchistan, 1.3 percent from Azad Kashmir and Northern Areas while remaining 16.9 percent were Pakistanis who repatriated from other countries. There were only 11 migrants whose birth place was not reported.

## **INDUSTRIAL IMPORTANCE**

After Karachi, Lahore is the biggest industrial area in Pakistan. There has been a steady expansion of industries in and around Lahore since independence. There are many large industrial units in the district. These units manufacture cotton, woolen and silk cloths, carpets and rugs, textile products, lather and rubber foot wears, wearing apparel, pharmaceutical goods, soap, iron and steel products, heating, plumbing and lighting equipment, hardware, miscellaneous fabricated products, agriculture machinery, engines and turbines, textile machinery, printing machinery, metal working machinery, pumps and compressors, household machinery, water generators, motor generators, transformers, electric fans, communication equipment, cycles and rickshaws. There are also a good number of printing

and publishing units and body building workshops. Besides, there are units of canning and preservation of food, edible oils, beverages, metal and wood furniture, rubber products, chemicals, glass products, repair of railway equipment, toys, stationary etc.

The proposed site is situated at Sunder Industrial Estate – Lahore. The project area is surrounded by industrial units.

## CHAPTER # 5

### SCREENING OF POTENTIAL ENVIRONMENTAL IMPACTS & THEIR MITIGATION MEASURES

The following chapter describes the overall possible impacts of project on the physical, biological and socioeconomic environment because of operational phases and mitigation measures to minimize the significance of the possible impacts up to an acceptable level. The anticipated impacts related to project location, design, and operational phases have been assessed and mitigation measures are provided accordingly.

#### IDENTIFICATION OF ALL IMPACTS:

All the impacts related to the subject project due to the project location, during the operational phase have been identified and their mitigation measures have been suggested in Chapter # 4, Screening of potential environmental impacts and mitigation measures.

#### METHODOLOGIES FOR IMPACT IDENTIFICATION:

The methodology adopted for impact evaluation includes the Project Impact Evaluation Matrix.

#### PROJECT IMPACT EVALUATION MATRIX

The impact Evaluation matrix was developed by placing project activities on x-axis and different environmental parameters likely to be affected by the project actions grouped into categories i.e. Physical, Biological and Socio-Economic Environment. For the impact assessment, project impact assessment matrix is used by dividing the project action into different phases operation phase. A project impact evaluation matrix is attached in next section of this chapter.

The evaluation of impacts has been carried out on the basis of developing matrix, in which impacts have been rated on the basis of their significance. For rating impacts significance following criterion has been developed;

NA – Not Available

O – Insignificant (No or minimal impact)

LA – Low Adverse (Short term, reversible or less damage to environment)

MA- Medium Adverse (Long term reversible damage to environment)

- HA – High Adverse (severe irreversible adverse damage to the environment)
- LB – Low Beneficial (Short term benefits or less beneficial to the environment)
- MB – Medium Beneficial (Long term benefits to environment)
- HB – High Beneficial (Continuous benefits to environment)

Environmental Component Project Activities	Physical Environment								Biological Environment		Socio-Economic Environment								
	Topography & Drainage	Soil Quality	Landscape	Surface water quality	Ground water quality	Air quality	Noise	Flora	Fauna	Agricultural Land	Health & Safety	Disruption of Public Utilities	Employment	Population Disturbance	Social Disorder	Cultural Values	Traffic Management		
Transportation of raw material/ products	MA	MA	MA	MA	O	MA	HA	LA	MA	O	HA	LA	B	MA	LA	O	HA		
Production process	O	O	O	HA	MA	MA	MA	O	O	O	HA	HA	H B	O	O	LA	O		
Washing process	O	O	O	LA	HA	O	O	LA	LA	LA	LA	HA	B	O	O	O	O		
Operation of boilers	O	O	O	LA	HA	MA	MA	O	O	O	HA	HA	H B	O	O	O	O		
Operation of generators	O	O	O	O	LA	HA	MA	O	O	O	HA	LA	H B	O	O	O	O		
Water consumption	LA	O	LA	HA	HA	O	O	LA	LA	LA	LA	HA	B	LA	O	O	O		
Wastewater generation	HA	MA	MA	MA	MA	LA	O	MA	MA	MA	HA	LA	B	LA	LA	O	O		
Storage of raw materials/ dyes	O	O	O	O	O	O	O	O	O	O	LA	O	B	O	O	O	O		

Social activities	O	O	LB	B	B	B	B	B	B	B	HB	HB	B	H B	HB	HB	HB	O
Public welfare	O	O	B	B	B	B	B	B	B	B	HB	HB	HB	H B	HB	HB	HB	LB
Economic activities	LB	O	B	B	B	B	B	B	B	B	HB	B	B	B	B	B	B	LB
Employment	O	O	O	O	O	O	O	O	O	O	B	B	B	H B	B	B	B	LB
Infrastructure improvement	LB	M B	HB	B	B	B	B	HB	LB	HB	HB	B	B	H B	B	B	B	B

Legend:

O=Negligible/No impacts

B=Beneficial

LA=Low Adverse

MA=Medium Adverse

HA=High Adverse

### **IMPACT ANALYSIS AND PREDICTION:**

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. For the impact analysis and predictions following methods were adopted:

### **CONSULTATIONS/ CASE STUDIES:**

To study the impacts of the project on physical and biological environment, site visits were conducted by the environmental practitioners and experts and possible physical and biological impacts which may arise due to the subject project were identified through consultations and case studies and their mitigation measures were suggested accordingly.

### **MEETINGS:**

For the identification of the social impacts of the project, meetings and group discussions were held with the local people, stakeholders, nearby residents and passerby because social acceptability of the project and the area is a key to success. 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 built 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.

To identify the different types of stakeholders and ascertain their perceptions about the project, an initial environmental examination 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.

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, villagers, shopkeepers, drivers etc.

Environmental consultants and social specialists and documenting the opinions of the stakeholders expressed during the meetings etc.

## CHARACTERISTICS OF IMPACTS

### ENVIRONMENTAL IMPACTS DUE TO PROJECT LOCATION

Project is present in the industrial area of the District Lahore. No nearby human settlement exists within the radius of 500 meter. Unit is already established medicinal formulation unit, and unit/ area does not fall in the category of sensitive area and no environmentally sensitive localities exist within radius of study area. The only issue which can arise due to the location of the subject project could be the issue of traffic congestion due to transportation of the construction material at the project site. If the project proponent maintains HSE conditions and comply with the PEQS limits than, there will not be any significant impacts of the project on the environment.

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

**Impact significance:** Low or may be positive

**Nature of impact:** Direct

**Duration:** Long-term

**Timing:** Operation phase

**Reversibility:** NA

**Likelihood:** Low (unlikely),

**Consequences:** Mild or may be positive

### MITIGATION MEASURES FOR LOCATION PHASE IMPACTS

- Project site have good road infrastructure and efficient road infrastructure already exists there that is used currently to access the site and there is no issue of the road congestion due to the wide, good and paved road.
- Location can be considered as the positive impact due to utilization of the product in the same District.
- The project has provided the jobs to the residents as well as to those from the suburban areas.

## ENVIRONMENTAL IMPACTS DUE TO THE PROJECT DESIGN

The current project is present in Sundar industrial estate. Area for parking, waste water treatment facility and solid waste management is present within unit. Firefighting plan, health & safety plan, tree plantation plan, emergency response plan is incorporated during the operation phase of the project.

### RESIDUAL IMPACT:

The residual impact of project activities for the land acquisition & resettlement of the area is expected to be insignificant.

The residual effects are summarized below:

**Nature of impact:** direct

**Timing:** Planning stage

**Duration:** not applicable

**Likelihood:** Nil

**Consequences:** no change

**Impact significance:** Not significant

### MITIGATION MEASURES:

If any resettlement involve, proponent must consult the affected persons and incorporate their interests and demands.

### CHANGES IN LAND USE:

The current land use of the area is mainly industrial. Project is expected to increase land use value particularly near the main road creating easy economic and employment opportunities for locals.

### RESIDUAL IMPACT:

The residual impact of project activities on land use of the area is expected to be insignificant.

The residual effects are summarized below:

**Nature of impact:** direct

**Duration:** not applicable

**Likelihood:** Nil as it is not involving any constructional activity that may cause change in land use

**Consequences:** no change

**Impact significance:** Not significant

### **ENVIRONMENTAL IMPACTS DURING CONSTRUCTION PHASE:**

The said project is already established unit

### **ENVIRONMENTAL IMPACTS DURING OPERATION STAGE**

#### **AIR QUALITY POTENTIAL IMPACT:**

Air emissions from project-related activities are likely to include:

- Dust raised on dirt tracks by project-related vehicles.
- Combustion products (nitrogen oxides, sulfur dioxide, particulate matter, carbon monoxide, and volatile organic compounds) from vehicles used for project-related activities.

### **ASSESSMENT OF IMPACT**

#### **1) DUST EMISSIONS:**

Dust emissions caused by vehicular traffic on dirt track are an important concern, primarily when such traffic passes near community settlements. Dust emissions cause the amount of particulate matter in the air to increase, and thus become a health concern. Dust clouds also reduce road visibility, creating a traffic hazard.

#### **2) GASEOUS EMISSIONS:**

Emissions produced by vehicles and equipment will be similar to those produced by generators in terms of the resulting pollutants (SO<sub>2</sub>, NO<sub>x</sub>, PM, etc.). However, the extent to which they are produced will be kept considerably lower, since much smaller engines are used in vehicles and construction machinery.

**Nature of impact:** Direct

**Duration:** long term

**Timing:** operation/ construction

**Reversibility:** irreversible

**Likelihood:** moderate as mitigation measures ensured that air pollution remains within acceptable limits.

**Consequences:** moderate, as pollutant levels in the ambient air is well within acceptable limits.

**Impact significance:** moderate, based upon low likelihood and mild to moderate consequence.

### **MITIGATION MEASURES**

None of the potential effects discussed above are expected to exceed acceptable limits.

The mitigation measures given below will further reduce their impact, and ensure that they remain within acceptable limits.

- All equipment and vehicles used during the project is properly tuned and maintained in good working condition in order to minimize exhaust emissions.
- Vehicle speed will be reduced on track passing through or close to shops
- Imposing speed limits and encouraging more efficient journey management reduce the dust emissions produced by vehicular traffic. Water is sprinkled where necessary to contain dust emissions.
- Management make sure process is environmentally friendly.

### **RESIDUAL IMPACT:**

After implementing the mitigation measures listed above, the residual impact of the proposed activities on ambient air quality is expected to be low.

### **NOISE LEVEL:**

Noise may be a major concern during the operation phase. It can be generated from the machinery used during operational activities. Generators can be another source of noise pollution.

**Nature of impact:** Direct

**Duration:** long term

**Timing:** operation

**Reversibility:** Not applicable

**Likelihood:** moderate

**Consequences:** slightly significant, if above mentioned mitigation measure will be strictly followed

**Impact significance:** moderate, based upon low likelihood and mild to moderate consequence.

### **MITIGATION MEASURES:**

- Keep the traffic load aligned and minimum during working hours of project
- Machinery and vehicles must be well tuned and maintained
- Impose the limits on unnecessary use of horns
- Safety signs must be displayed and public & drivers must be well aware of them
- Do not work in night time.

### **RESIDUAL IMPACT:**

After implementing the mitigation measures listed above, the residual impact of the noise level will be slightly significant.

### **CONCLUSION**

Management of M/s GoldSheff Nutraceuticals (Pvt.) Ltd has to achieve the following goals.

- Identification of regulatory requirements that apply to the project activities in the context of environmental protection.
- Identification of the environmental features of the project area and the likely impact of the project on the environment,
- Recommendation of appropriate mitigation measures that management will incorporate into the project implementation to minimize all adverse environmental impacts.
- Baseline environmental and socioeconomic information collection from a variety of sources, including field surveys.

The impacts of project in area will be insignificant, provided the generic mitigation measures proposed in this report are implemented.

After assessing the project activities and investigating the project area, it is concluded that, if the activities are undertaken in this report, and the recommended mitigation and environmental management measures are adopted, the project will not result in any long-term or significant impacts on the local community or the environment.

### **HEALTH:**

People from the project area regularly travel to other cities, and thus cannot be considered isolated from the rest of the country. They are regularly exposed to illnesses common to urban populations, and have similar levels of immunity. The project is therefore very unlikely to lead to an epidemic of any sort among local communities.

### **MITIGATION MEASURES:**

Regular medical check-ups of all the workers need to be conducted to ensure the health of workers and local population.

**Nature of impact:** Indirect

**Duration:** Long term

**Timing:** operation phase

**Reversibility:** reversible

**Likelihood:** moderate

**Consequences:** low to moderate, it may cause disturbance or spread of disease in the area if mitigation measure will not have followed

**Impact significance:** significant

### **SAFETY:**

Project activities could become a hazard as it is located in populated area local people, especially children, are likely to gather around to watch the activity. The other safety issue is that of traffic, especially along access roads close to settlements. To reduce the hazards, the following mitigation measures will be implemented:

- Local people will be informed in advance when work is about to start in an area.
- This may result in people keeping young children away from work areas.
- Machinery will never be left unattended.
- Safe driving practices will be adopted, particularly while passing through settlements.

**Nature of impact:** Direct

**Duration:** long term

**Timing:** construction / operation phase

**Reversibility:** irreversible



**Likelihood:** moderate to high

**Consequences:** moderate if all safety measure will be taken care

**Impact significance:** Significant

### **SOLID WASTE/ SLUDGE MANAGEMENT:**

Proper solid waste management system is necessary for the prompt, timely and efficient disposal of solid waste & sludge for the reduction of its impacts. Impacts due to solid waste & sludge are expected to be temporary and minor in nature.

**Nature of impact:** Direct

**Duration:** Short term

**Timing:** operation

**Reversibility:** Not applicable

**Likelihood:** Low (unlikely) as mitigation measures will ensure that Solid waste management will be efficient

**Consequences:** Mild, as it will be removed from site within few hours

**Impact significance:** Low, based upon low likelihood and mild to moderate consequence.

### **MITIGATION MEASURES:**

- Planning of solid waste disposal sites with reasonable distance from the human settlements
- A minimum distance of 1 km should be maintained between the solid waste disposal site and nearest human settlement
- Devise plan & develop guidelines for the safe handling, storage & disposal
- Sludge must not be placed at the site after cleaning of wastewater treatment tank
- PPEs are strongly recommended for workers for the handling of sludge.

### **POTENTIAL POSITIVE IMPACTS:**

The project is envisaged to have followed major positive impacts;

### **EMPLOYMENT OPPORTUNITIES:**

Establishment of M/s GoldSheff Nutraceuticals (Pvt.) Ltd help in generating new jobs for the local population. The requirement of Managers, Engineers, Workers, technicians, skilled and



unskilled labor etc. generate employment opportunities. It is estimated about 20-25 persons employed during operational phase. Hence, there is large number of employment opportunities especially for the locals of the district.

### **INCREASE IN BUSINESS:**

With the influx of laborers for the proposed project, there will be more opportunities for small scale business such as small food cafes etc.

### **IMPROVED INFRASTRUCTURE:**

Establishment of M/s GoldSheff Nutraceuticals (Pvt.) Ltd improved the infrastructure of the area as proponent has incorporated aesthetic values and regeneration of site in its planning stage.

### **ECONOMIC BENEFITS:**

M/s GoldSheff Nutraceuticals (Pvt.) Ltd is a medicinal formulation unit and it is a great investment for the economy of our country. In the long run it will positively impact not only the local population but also the economy of Pakistan.

Main environmental issues associated with Project operation are as follows.

- Health and safety issues for workers may arise during the project process e.g., Particulate matter may be generated during the project process, which may cause the health issues for the workers and noise of machinery can also be a negative impact on the health of workers.
- Waste water due to domestic and process activities.
- Fire due to short circuits and other activities.
- Solid waste generation due to domestic and project related activities.
- Noise pollution from generator and other machinery.
- Health hazards including the electricity hazards.
- Emissions will be generated from working of generators.
- Sludge from wastewater treatment facility will be generated.
- 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.

**Impact significance:** moderate to high or may be negative

**Nature of impact:** direct

**Duration:** Long-term

**Timing:** operational phase

**Reversibility:** NA

**Likelihood:** moderate to high

**Consequences:** moderate to high or may be negative

### **RECOMMENDATIONS**

- Safety of workers should be ensured through proper training and PPEs must be ensured during the working hours.
- Wastewater treatment facility should be constructed within the premises of the unit.
- A well design firefighting system will be constructed to cope with fire situations in the subject project.
- Solid waste bins should be regularly cleaned and solid waste must be handed over to contractor.
- Sludge from the wastewater treatment facility will be handed over to the certified contractors.
- Noise levels should not exceed the PEQS.

### **POTENTIAL ENVIRONMENTAL ENHANCEMENT MEASURES**

The said project is installed with all precautionary measures to enhance and safe the environment. Following necessary measures will be adopted during operational phase of the project:

- Sprinkling of water will be done on dusty roads and tracks.
- PPEs will be provided during operation activity.
- Domestic solid waste will be disposed-off properly.
- 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 are placed during operation.
- Machinery will be kept maintained.
- Waste water will be treated through waste treatment system that will be installed within the premises of the subject project.
- 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.
- Firefighting equipment's and system will be installed.
- Hygienic conditions will be ensured and proper quality will be maintained by quality control testing.
- First aid facilities will be made available.

### **PURPOSE OF MITIGATION MEASURES**

#### **WHAT IS THE PROBLEM I.E. IN TERMS OF “MAJOR ENVIRONMENTAL IMPACTS” WHICH MAY ARISE BY THE SUBJECT PROJECT ACTIVITY?**

The major impacts may arise by the subject project could be particulate matter & dust, noise, solid waste and wastewater. Other impacts are of minor importance. These impacts will arise during operation but precautionary measures will be adopted prior to start the activity, during the activity and post activity.

#### **WHEN THE PROBLEM WILL OCCUR AND WHEN IT SHOULD BE ADDRESSED?**

Any impact that would arise due to the subject project activity is already addressed on site. Trainings are conducted on site prior to start work while other precautionary measures will also be adopted to make the project safe and environmentally friendly.

#### **WHERE AND HOW THE PROBLEM SHOULD BE ADDRESSED?**

HSE manager/environmental manager along with site manager is appointed to assess any impact that could be arisen during operation phase. He would be responsible to address the problem and to mitigate it.

### **WHYS OF ACHIEVING MITIGATION MEASURES**

#### **IMPROVED MONITORING AND MANAGEMENT PRACTICES:**

Management of M/s GoldSheff Nutraceuticals (Pvt.) Ltd shall take appropriate measures to provide pollution free and safe environment during the project activity by implementing improved management practices and monitoring techniques suggested in EMP.

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**COMPENSATION IN MONEY TERMS:**

M/s GoldSheff Nutraceuticals (Pvt.) Ltd. adopted such plan that will assure the minimum impact on the environment and health by implementing proper mitigation measures.

**REPLACEMENT, RELOCATION AND REHABILITATION:**

M/s GoldSheff Nutraceuticals (Pvt.) Ltd has already developed Restoration/ reclamation or tree plantation plan to restore the project area. Maximum Plantation is done with native species within the building, along the boundary wall and along the road side if directed by EPA. Also, in-front of main area, horticulture plan will be formulated and area for this will be kept reserved.

## **CHAPTER # 6**

### **ENVIRONMENTAL MANAGEMENT AND MONITORING PROGRAM**

#### **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:
  1. Ensure the complete implementation of all mitigation measures.
  2. Ensure the effectiveness of the mitigation measures.
  3. Provide a mechanism for taking timely action in the face of unanticipated environmental situations.
  4. Identify training requirements at various levels.

#### **MANAGEMENT APPROACH:**

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

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

#### **INSTITUTIONAL CAPACITY**

The overall responsibility for compliance with the environmental management plan rests with the project proponent. He appointed HSE/Project Manager of relevant qualification. HSE/Project Manager act as Environmental Manager and managed all HSE conditions at the PEQS.

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

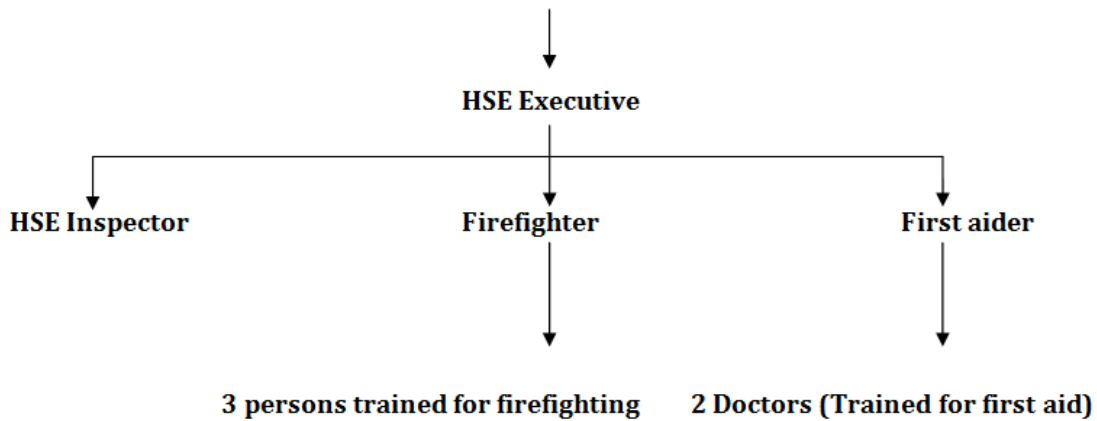
Following functionaries will be involved in the implementation of EMP:

- Project Proponent
- HSE Officer
- In-Charge Administration

- Supervisor of project

**SCHEDULE OF IMPLEMENTATION**

Training for the management and workers on environmental aspects of the project are arranged on biannually basis during the operational phase of the project. It is imparted by a team of experienced trainers. Health and Safety policy is attached as attached as **Annexure-L**.



**Figure: Institutional Capacity for the implementation of EMP**

Management hired or appointed HSE officer before the initiation of work at the project site. HSE officer will be responsible for conducting the training of the labor, which will be organized either by the management of industry or by the contractor.

Following schedules of training will be implemented:

**Table: Training Program**

Sr. No.	Description of program	Personnel involved	Time/ duration
1)	General HSE Training	Trainers and whole production facility staff	Regularly as planned by HSE Manager
2)	Instrument use/ workplace specific items	Trainers and whole production facility	Regularly as planned by HSE Manager

		staff	
3)	PPEs use and safe work practices at work site.	Trainers and whole production facility staff	Regularly as planned by HSE Manager
4)	Reporting and investigating accidents/ incidents	Trainers and whole production facility staff	Regularly as planned by HSE Manager
5)	Emergency procedures	Trainers and whole production facility staff	Regularly as planned by HSE Manager
6)	Medical and first aid	Trainers and whole production facility staff	Regularly as planned by HSE Manager
7)	Health and safety promotion	Trainers and whole production facility staff	Regularly as planned by HSE Manager

In order to raise the level of professional and managerial staff, there is a need to upgrade their knowledge in the related areas. HSE Manager should play a key role in this respect and arrange the training programs. HSE Manager will provide training to staff and workers about the best environmental management practices at the site and affective implementation of the EMMP. The training modules will include air, noise and water pollution monitoring, social awareness, Environmental Laws, National Environmental Quality Standards (PEQS), Usage of personal protection equipment, and health and safety related issues on the construction site.

The HSE Manager will train all workers & staff in basic sanitation and health care issues (e.g., how to avoid malaria, dengue 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 Manager is responsible to conduct Training on regularly basis regarding health & safety, hygiene, firefighting and first aid.

### **TRAINING OF WORKERS:**

Training of workers will be the part of the TORs regarding the construction of the scheme. The provisions given in EIA Report *Chapter 4 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
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 HSE manager.

### **PROPOSED ENVIRONMENTAL MONITORING**

To oversee the environmental performance of the project through its lifecycle 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. Monitoring for following Environmental Parameters is recommended:

- **AMBIENT AIR**

Monitoring for ambient air should be conducted during operational activities of the project and report should be submitted to EPA Punjab.

- **NOISE**

Regular monitoring for noise level should be maintained periodically during operation phases of the project and report should be submitted to EPA Punjab as per rule.

- **WATER QUALITY**

Regular monitoring of water quality should be conducted during operational phases of the project and report should be submitted to EPA Punjab. Record should be maintained regarding the underground water pump and consumption.

Recommendation: Environmental Monitoring data log book should be maintained by the project proponent.

### **RESPONSIBILITY OF EMP**

Overall responsibility for implementation of EMP is of project proponent. He has appointed an HSE/Project Manager of relevant qualification. HSE/Project Manager acts as Environmental Manager and manage all HSE condition at the PEQS.

### **EQUIPMENT MAINTENANCE DETAIL**

The subject project is already established medicinal formulation unit under the name of M/s GoldSheff Nutraceuticals Pvt Ltd. 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 filings or replacement.

### **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 allocated the Environmental Budget annually for the Training, maintenance and management of Environment 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 regular basis
Maintenance and management of environment	On regular basis
Maintenance of equipment	On regular basis

**Environmental Impact Assessment Report**  
**M/s GoldSheff Nutraceuticals (Pvt.) Ltd**  
**Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore**



Availability of PPEs	During production hours
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 OF M/s GOLDSHEFF NUTRACEUTICALS (PVT.) LTD

Sr. #	Aspects	Impact & Mitigations to be taken			
		Impacts	Mitigation measures Operation	Responsibility	Monitoring
<b>AMBIENT AIR QUALITY</b>					
1.	Air Quality	Production machinery Flue gas emissions from machinery and generators	Air emissions-controlled devices must be installed to control the air pollution. For generators, small scrubbers should be installed. Air quality monitoring is recommended on regular base Open disposal and burning of solid waste in the premises of building should be strictly banned. Pollution abatement technologies regarding air pollution will be adopted. Emissions inspection and monitoring should be done on regular basis	HSE Department	Environmental Consultant/EPA PUNJAB

<b>NOISE &amp; VIBRATION</b>					
2.	Noise	<p>The major sources of the noise are production related machinery.</p> <p>Noise from generators (if any)</p>	<p>Personal Protective Equipment PPEs including Ear muffs, Ear plugs and other noise abating equipment will be provided to the workers and other staff.</p> <p>Sound proof room should be built for generator (if any) to control the noise.</p>	HSE department	Environmental Consultant/ EPA PUNJAB
<b>HEALTH AND SAFETY</b>					
3.	Health and safety	<p>Health &amp; safety issues of workers and nearby community</p>	<p>Trainings of the workers is recommended for health &amp; safety, first aid and firefighting.</p> <p>Proponent must provide First aid facilities to workers in case of any injury or accident.</p> <p>Safe drinking water must be provided to workers, staff, and poor people of the area.</p> <p>Water consumption records should be maintained.</p> <p>Provision of Proper PPEs must be ensured at workplace.</p> <p>Assembly point and exit points must be available at workplace.</p> <p>Electric wires, D. Bs must be kept covered &amp; closed to avoid any electric hazards.</p> <p>Smoking or any drugs should be prohibited during</p>	HSE Department	Environmental Consultant/ EPA



			<p>working hours or performing work.</p> <p>Safety signs &amp; boards will be placed at the time of construction activity.</p> <p>Security guards will be appointed at the construction site.</p>		
<b>WASTE WATER</b>					
4.	Waste water	<p>Domestic waste water.</p> <p>Minor wastewater from production activities.</p> <p>Spread of diseases, underground water contamination.</p>	<p>Domestic waste water is being drained out in industrial estate drain after treated in septic tanks</p> <p>An appropriately designed septic tank is being used to treat sewage/waste water to achieve PEQS.</p> <p>Periodic cleaning of septic tank is recommended.</p>	HSE department	Environmental Consultant
<b>SOLID WASTE GENERATION</b>					
5.	Solid Waste Generation	<p>Aesthetic degradation, foul smell etc.</p> <p>Solid waste generation from the machinery installation and production activities, domestic and process sources</p>	<p>A solid waste management plan should be formulated to deal with the proper disposal of solid waste, supervised by HSE Manager.</p> <p>Waste segregation is recommended at the source.</p> <p>Industrial ecology practices will be adopted wherever possible.</p> <p>7 R's of sustainability is recommended</p> <p>Hazardous waste should be disposed in separate bins</p>	HSE Department	Environmental Consultant/ EPA PUNJAB

			and handed over to EPA approved contractors. Waste produced from building alteration/renovation should be sold to local market.		
<b>ODOR</b>					
6.	Odor	Odor may produce from raw material and during product manufacturing	Raw material should be covered to reduce odor Face masks must be provided to the workers and employees on production floor	HSE Department	Environmental Consultant/ EPA PUNJAB
<b>ENERGY REQUIREMENT</b>					
7.	Energy requirement	Resource depletion	Do not waste the energy/electricity when there is no need of it. Use energy efficient and ecofriendly equipment Use energy saving appliances Conduct and maintain records for energy audits Do not leave the appliances in running when there is no need It is recommended to save and conserve the energy and adopt energy efficient technologies in the factory.	HSE Department	Environmental Consultant/ EPA PUNJAB
<b>SOCIO ECONOMIC IMPACTS</b>					
8.	Language	Change in cultural language	Maximum employment of Local people is	Proponent	NA

			recommended to preserve the local cultural language. It will help in communication with the local people to resolve any emerging issue near the project area		
9.	Education	Change in social behavior and economic gains	School and colleges exist in the area. The project proponent will initiate an educational awareness program with the coordination of the local people.	Proponent	NGO survey
10	Health	Social performance of the individuals in the area	The project proponent will assist the local impacted community for the improvement of health services Health clinic must be established for the project workers.	Proponent	Proponent
11	Culture and norms of the area	Change in culture by the influx of nomadic people	Maximum local employment should be ensured to preserve the culture of the area	Proponent	NGO survey/Environmental Consultant
12	Sewage and waste disposal	Diseases caused by improper sanitation	Subject project will uplift the economic status of the nearest human settlements. Awareness program will be initiated regarding the disposal of waste.	Proponent/ local NGO	NGO survey/ Environmental Consultant

## CHAPTER # 7

### STAKEHOLDERS PARTICIPATION

Social acceptability of the project and the area is a key to success. 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 built 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.

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 identify the different types of stakeholders and ascertain their perceptions about the project, an initial environmental examination 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.

#### 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 said 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 said unit.

The important general objectives of the consultation process are:

- Information dissemination, education and liaison;
- Identification of problems and needs;
- Collaborative problem solving;
- Reaction, comment and feedback on proposed project;
- Documenting mitigation measures proposed by the stakeholders;

## **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 industry workers, villagers, shopkeepers, drivers etc.
- Environmental consultants and social specialists and documenting the opinions of the stakeholders expressed during the meetings etc.

## **PROPONENT**

Possible impacts and mitigation measures related to the subject 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 environment friendly.

## **RESPONSIBLE AUTHORITY**

Management of M/s GoldSheff Nutraceuticals (Pvt.) Ltd is the responsible authority to take all measures prior to start the activity.

## **ENVIRONMENTAL PRACTITIONERS AND EXPERTS**

Team of M/s Environmental Services of Pakistan (ESPAK) visited the project site, had discussions with stakeholders and consulted with the local people of nearby and other villages 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 provide the massive information about the project and have positive remarks regarding the project development

## **OTHER DEPARTMENTS AND AGENCIES**

For the impact analysis detailed meetings were held with the management of M/s GoldSheff Nutraceuticals (Pvt.) Ltd local community, education institutes, health institutes and



hospitals. Issues were discussed that may affect the environment and also the implementation of said 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.

### **AFFECTED & WIDER COMMUNITY**

There is no affected community present in the radius of our study area. ESPAK team has consulted with the inhabitants of the different villages. They provided positive remarks regarding the subject project and in the favor of the subject activity for the said plant. Stakeholder's participation Performa's and socioeconomic questionnaire were get filled by the inhabitants to evaluate the project socio-economic impacts. List of respondents and socioeconomic questionnaires are attached as **Annexure-M** with the report.

#### **Categories of stakeholders interviewed in the project area:**

<b>Sr. No.</b>	<b>Stakeholder Category</b>
1.	Neighboring factory workers.
2.	Nearby residents
3.	Shopkeepers.
4.	Drivers.

In addition to the above categories, authorities of administrative and educational institutions, commerce and Investment Department (C&I), Environmental Protection Department (EPD) etc. were also consulted for more effective participation and appraisal of the said project.

### **ISSUES DISCUSSED:**

Following issues were discussed during the stakeholder consultation:

- Overall activities of the project;
- Possible impacts on natural vegetation, air, land and properties;

- Possible mitigation measures;
- Benefits of the project specifically for the local people.

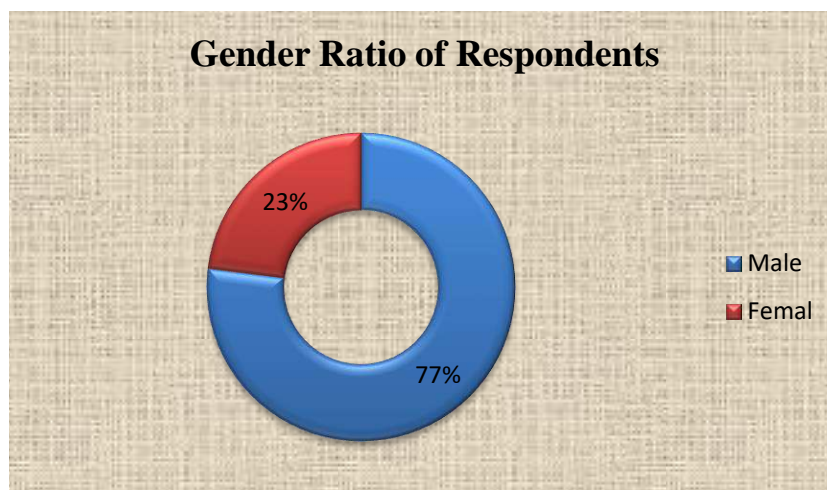
### **SAMPLE SIZE**

Sample size of 30 respondents was selected by the Team of consultants for conducting the socioeconomic survey. Women were also consulted for the said survey; some of their names are mentioned in the above list of respondents while most of them were not willing to give personal information.

### **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.

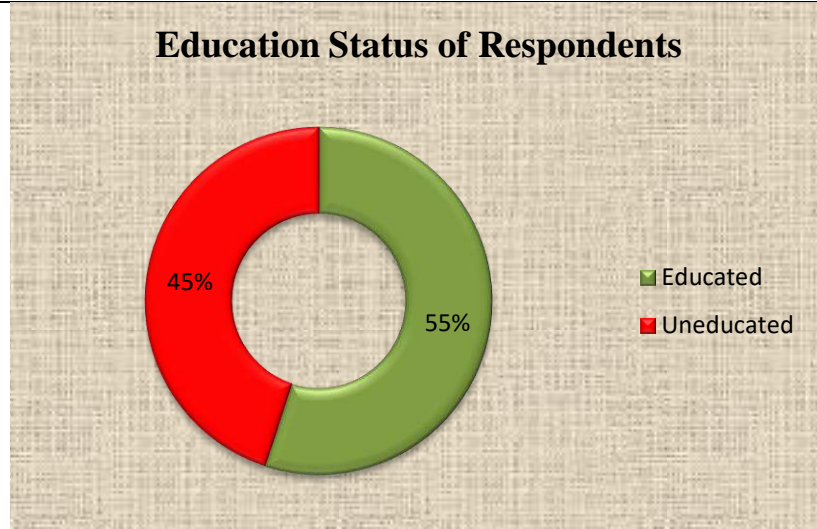
### **RESULT & DISCUSSION**



**Figure 7: Gender Ratio of Respondents**

### **DISCUSSION**

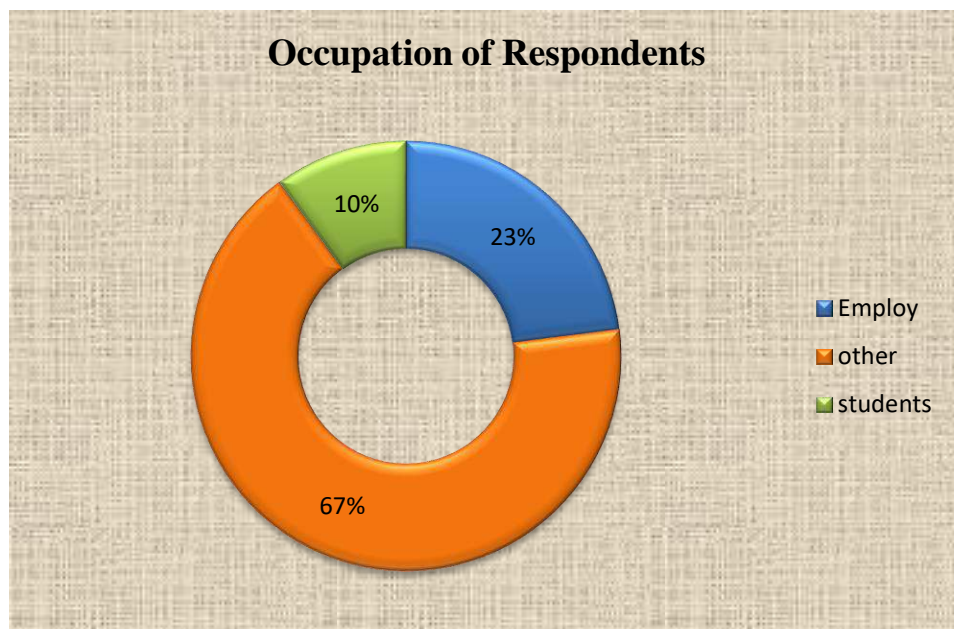
In the sampled population, 77% respondents were male while 23% respondents were female. The number of female respondents is less as compared to male respondents because according to the social binding female hesitates to respond or communicate comfortably.



**Figure 8: Education Status of Respondents**

### DISCUSSION

In the sampled population, 55% respondents were educated while 45% were uneducated. So, according to the survey overall education status of the area is good.

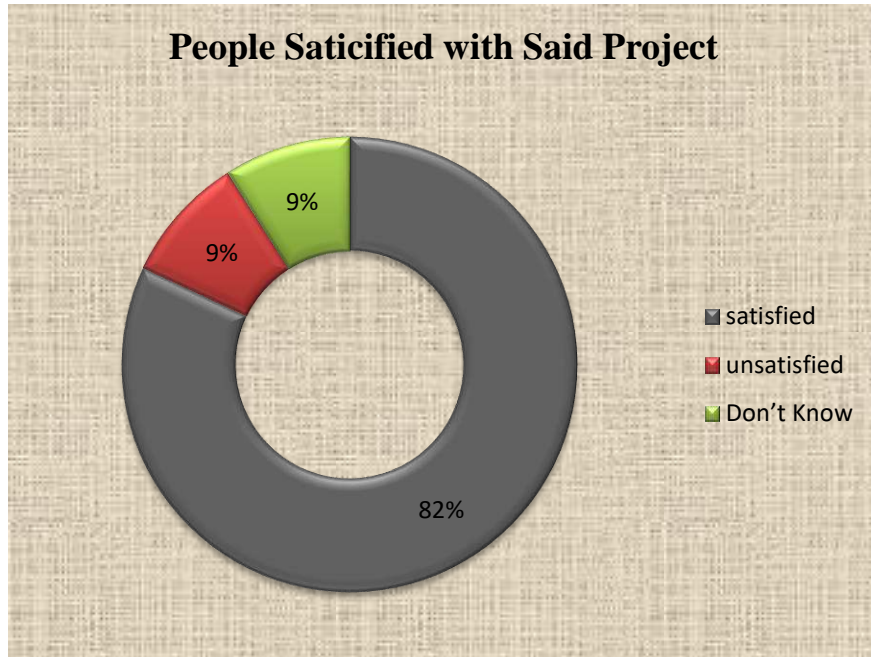


**Figure 9: Occupation of Respondents**

### DISCUSSION

According to above graphical representation, source of income of majority of the respondents in the area was mainly employee in the private and government sectors. In the sampled

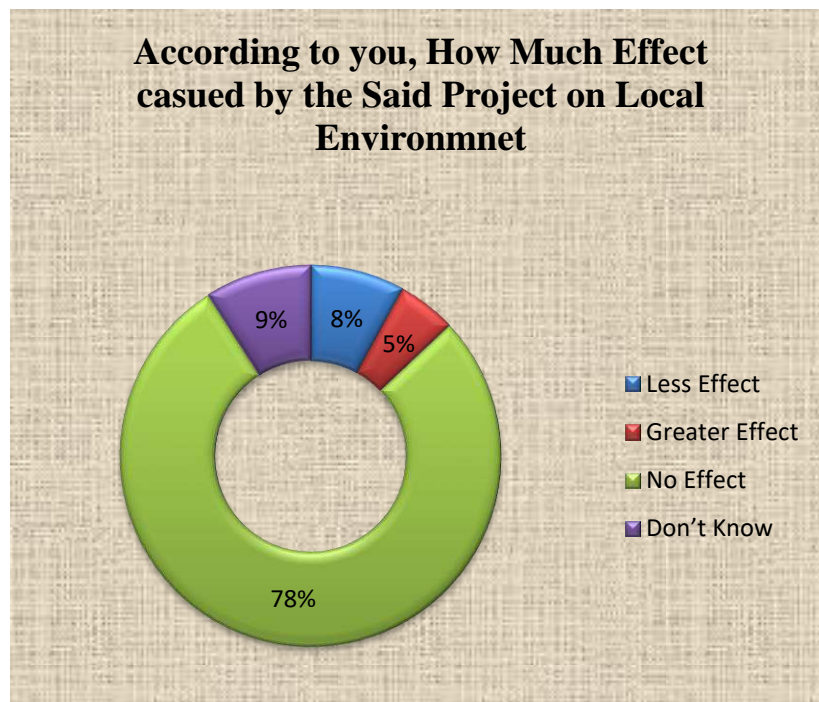
population, 10% were students while all other respondents' source of income was business man, farmers, doctors and teachers.



**Figure 10: Ratio of people satisfied with Said Project**

#### **DISCUSSION:**

As per survey, 82% people were satisfied with the said project and they gave positive remarks about the Pharmaceutical Unit. They were hopeful to get job over there. While 9% respondents had no opinion regarding the project and 9% respondents were not satisfied with the said industrial unit due to their concerns regarding the pollution and no preference to local people for jobs.

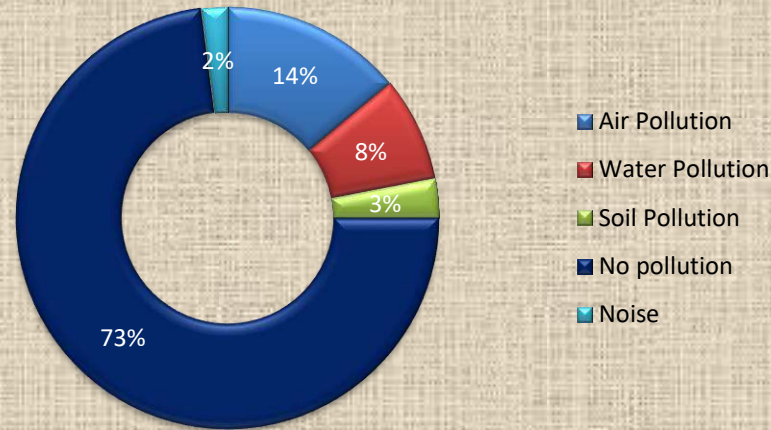


**Figure 11: Ratio of Respondents having different views regarding Impact on Environment**

**DISCUSSION:**

As per survey, 78 % respondents remarked that the subject project will not cause much effect on the environment while 9% respondents had no point of view regarding the project activity, 8% respondents remarked that subject activity will have less effect on the environment of area and only 5% remarked that operational activity will have greater effect on the environment of the area.

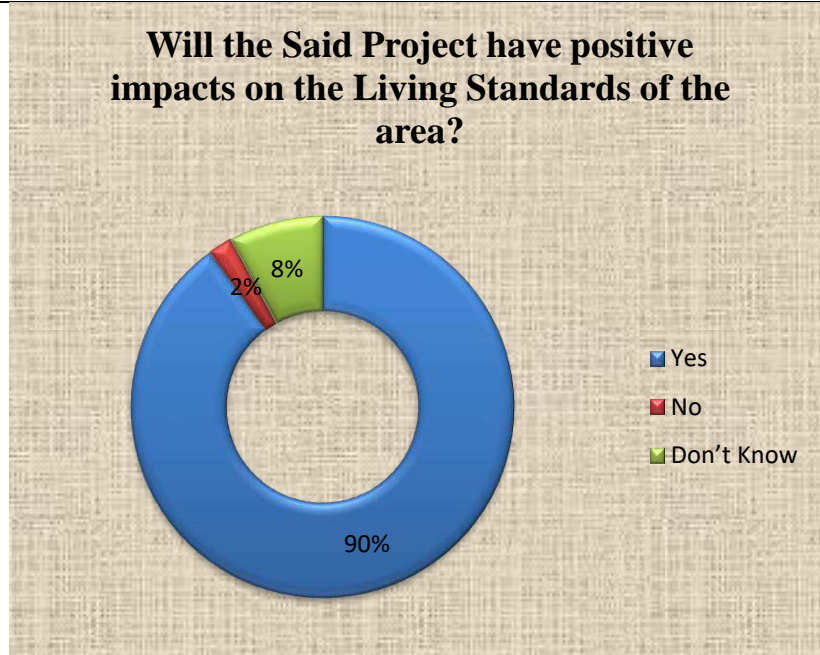
**According to You, What Type of pollution caused by the Operation of Said Project**



**Figure 12: Types of Pollution cause by the Said Project**

**DISCUSSION**

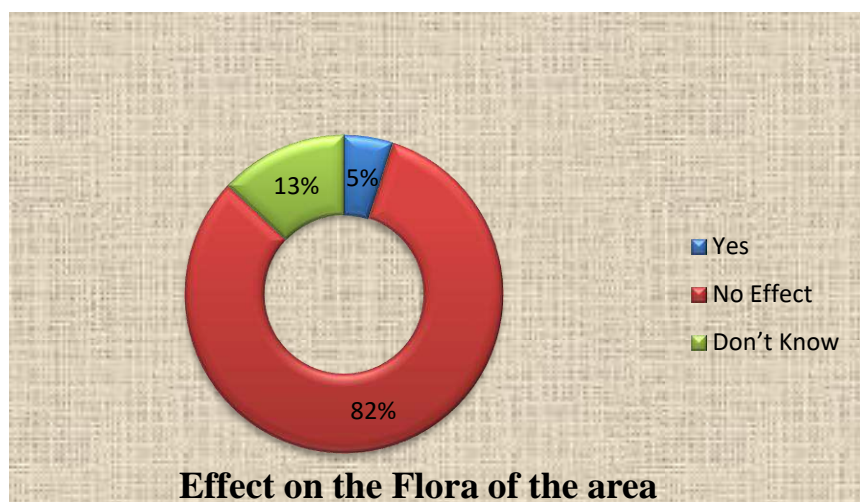
When the people were asked that according to you, what type of pollution was caused by the subject project, 14% people said that project is the cause of higher air pollution, 3% said that project is the cause of soil pollution due to its activities. 8% said that it is the cause of water pollution, 2% said that it is the cause of noise pollution while 73% of the sampled population said that project is not causing any pollution according to their point of view.



**Figure 13: Effect of Said Project on the Living Standard of people**

**DISCUSSION:**

When people were asked that “Will the said industrial unit have positive impacts on the living standards of the area?”, 90% respondents said that subject project will enhance the living standard and income level of the area, 2% said that there will be no effect on the living standards and income level while only 8% respondents had no remarks regarding the subject project.



**Figure 14: Effect of Said Project on Flora**

## DISCUSSION

When the people were asked “is the project affect the Flora of the area?” 82% of the respondents remarked that the project have no effect on the plants by the operation of the said project, 5% said that said project is not affecting the plant species of the area and 13% gave no comments regarding the question.

### FINDINGS OF THE OVERALL DISCUSSION:

- ✚ It will enhance the socio-economic conditions/values of the area.
- ✚ Project will increase revenue generation for the Government.
- ✚ It will create employment opportunities.
- ✚ Local people will be given preference for employment in the proposed project.

There is no significant additional load on the existing infrastructure i.e. utilities of water, telephone, electricity etc. due to the development of the said project.

### FINDINGS OF THE OVERALL DISCUSSION:

- ✚ It will enhance the socio-economic conditions/values of the area.
- ✚ Project will increase revenue generation for the Government.
- ✚ It will create employment opportunities.
- ✚ Local people will be given preference for employment in the proposed project.
- ✚ Construction of the project will be completed in the designated timeframe to limit adverse impacts of construction.
- ✚ There will be no significant additional load on the existing infrastructure i.e. utilities of water, telephone, electricity etc. due to the development of the proposed project.

## CHAPTER # 8

### CONCLUSION AND RECOMMENDATIONS

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

#### CONCLUSIONS

- The EIA study reveals that the project is economically viable, socially acceptable and environment friendly.
- It will generate additional jobs during operation phases.
- The proponent has committed to implement the project in the environment friendly manner.
- M/s GoldSheff Nutraceuticals (Pvt.) Ltd intends to register the project with local Government.
- M/s GoldSheff Nutraceuticals (Pvt.) Ltd has prepared and implemented very comprehensive Emergency Preparedness and Response Standard Operating Procedures.
- M/s GoldSheff Nutraceuticals (Pvt.) Ltd has prepared and implemented very comprehensive Security and Fire Fighting Standards Operating Procedures.

#### 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.
- The untreated wastewater will not be reused for irrigating the vegetation and lawns.
- 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 M/s GoldSheff Nutraceuticals (Pvt.) Ltd 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-A**  
**TERM OF REFERENCES (TORS)**

# **TERMS OF REFERENCES (TORS)**

**ENVIRONMENTAL IMPACT ASSESSMENT REPORT  
OF M/S GOLDSHEFF NUTRACEUTICALS (PVT.) LTD  
LOCATED AT PLOT NO 537-F SUNDAR INDUSTRIAL ESTATE,  
RAIWIND ROAD, LAHORE**

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## **TERM OF REFERNCES**

These terms of references are being submitted for the subject EIA study under 5 (f) of policy and procedure for the filing, review and approval of environmental assessment. These TORs of EIA have been prepared by the environmental consultants, in consultation with the project proponent.

### **Introduction of project:**

Subject project for which this Environmental Impact Assessment study has been conducted is already established pharmaceutical unit under the name of M/s GoldSheff Nutraceuticals (Pvt.) Ltd located at Plot no 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

Total area of the project is 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT .The Cost of operation is 7 million rupees. Products of the said project are Tablet, syrup, sachet, dry milk powder, ointment cream. The production capacity of the pharmaceutical unit is given below:

<b>Sr.no</b>	<b>Products</b>	<b>Production Capacity/Month</b>
1	Tablet	4 million/ month (can be blistered/Packed in bottles)
2	Syrup	4 Lac/month
3	Sachet	2 lac sachet packs (1*10)/month
4	Milk	100k Tin packs/month
5	Cream	1 lac tubes/month

### **Cost of Project:**

The Cost of operation is 7 million rupees.

### **Area of the Project:**

Total area of the project is 18131 SFT. Covered area of plot is 23825 SFT and open area of plot is 7073 SFT.

### **Name & Address of proponent**

Name: Mr. Bilal Ahmad

Proponent has appointed the Environmental Services Pakistan Pvt Ltd (ESPAK), as the Consultant for the subject project to conduct the EIA. M/S Environmental Services Pakistan Pvt Ltd (ESPAK), will be called as “Consultant” and M/s GoldSheff Nutraceuticals (Pvt.) Ltd as the “Client”.

### **Objective of the EIA study**

The Objective of study includes Compliance of section 12 of PEPA 1997 (Amended 2012) & PEQS.

### **Purpose of the EIA**

The key objectives of the EIA are to:

- Document the ecological and socioeconomic baseline conditions of the study area and the affected communities
- Inform and obtain input from stakeholders, (e.g., governmental authorities, the public, and indigenous communities) and capture their relevant issues and concerns
- Assess in detail the environmental, social, and health impacts that would result from the Project
- Identify environmental and social mitigation measures to address the impacts identified
- Develop the EMPs as discussed above, based on the mitigation measures developed in the EIA.
- Meet the requirements or recommendations of the applicable national Environmental Laws and Guidelines

### **Scope of Services**

1. Review of existing regulatory framework
  - 1.1 Laws and Regulations
  - 1.2 National and International Guidelines and Policy
  - 1.3 Guidelines of Labor & Human Resource Department
  - 1.4 Punjab Local Government Ordinance
2. Methodology for carrying out this study
  - 2.1 Project Description
  - 2.2 Site Selection
  - 2.3 Project Alternatives
3. Process Description
  - 3.1. Detailed review of the processes

- 3.2 Design Parameters
- 3.3 Details related to Plant and Equipment's
- 4. Environmental profile of the environmental study area
  - 4.1 Climatology
  - 4.2 Geographical features
  - 4.3 Geological and Hydrological features
  - 3.5.4 Historical review
  - 3.5.5 Land Use
  - 3.5.6 Ecology, i.e. Flora and Fauna etc.
- 3.6 Analysis of EPA required environmental parameters
  - 3.6.1 Sampling for Air, Water, and Noise Level
- 3.7 Investigate Socio-Economic and Socio-Environmental aspects and cultural values within and around the operating facility
  - 3.7.2 Cultural and Social Values
  - 3.7.4 Interviews from different groups
- 3.8 Development activities and Waste Management
- 3.9 Identify and evaluate major environmental impacts
- 3.10 Identify mitigation measures and develop Environmental Management and Monitoring plan
- 3.11 Conclusions based on the study conducted for this EIA
- 3.12 1-2 Site Visits for data acquisition
- 3.13 Environmental Monitoring plan
- 3.14 Preparation of Lab Analysis Report
- 3.15 Preparation of Environmental Management Plan EMP
- 3.16 Briefing & Presentation to the Expert Committee in the EPA Punjab.
- 3.17 Reply to technical Environmental Objections/Review
- 3.18 Presentation in the office of DG EPA, Punjab (if required)


## 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 CNIC of proponent
  - Dually 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

**Environmental Services Pakistan  
(ESPAK) Lahore**

Signatures: 

Client: Bilal Ahmad

**M/s GoldSheff Nutraceuticals (Pvt.) Ltd**



**ANNEXURE-B**

**CNIC & OTHER DOCUMENTS**

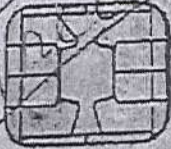


PAKISTAN

National Identity Card

ISLAMIC REPUBLIC OF PAKISTAN

Name  
Bilal Ahmad



Father Name  
Aftab Ali Siddiqui

بلال احمد

آفتاب علی سیددینی



Gender Country of Stay  
M Pakistan

Identity Number Date of Birth  
35202-4516885-5 05.01.1994

Date of Issue Date of Expiry  
21.07.2017 21.07.2027

*Bilal Ahmad*

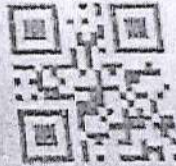
Holder's Signature

52770



35202-4516885-3

بلال احمد



بلال احمد، بلوچستان، لاہور

بلال احمد

504671006540

Usman H. Malik  
Registrar General of Pakistan

گمشدہ کارڈ ملنے پر قریبی لیڈ بکس میں ڈال دیں

**PAKISTAN** National Identity Card  
ISLAMIC REPUBLIC OF PAKISTAN

Name: **Mohsin Mehmood** موسین محمود

Father Name: **Mehmood Alam Naseemi** محمود عالم ناسیمی

Gender	Country of Stay
M	Pakistan

Identity Number	Date of Birth
31103-9099527-9	30.06.1986
Date of Issue	Date of Expiry
15.10.2015	15.10.2025

Holder's Signature

31103-9099527-9

موسین محمود مکان نمبر 350 کی نمبر 2 عمر لاداق  
لاہور، فورٹ عباس، ضلع بہاولنگر

مستثنیٰ مکان نمبر 295 بلاک کے - 2 والپا  
لاہور

770000017068

**Umar Y. Mehmood**  
Registrar General of Pakistan

گمشدہ کارڈ ملنے پر قریبی لیڈ بکس میں ڈال دیں

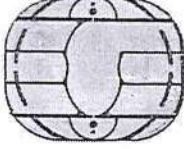


**PAKISTAN** National Identity Card  
ISLAMIC REPUBLIC OF PAKISTAN



Name  
**Muhammad Daim**

محمد دائم



Father Name  
**Muhammad Zahid Arif**

محمد زاہد عارف



Gender | Country of Stay  
M | Pakistan

Identity Number | Date of Birth  
36101-9613030-9 | 12.08.2001

Date of Issue | Date of Expiry  
05.12.2019 | 05.12.2029

Holder's Signature

موجودہ پتہ: مکان نمبر 76، محلہ العطاء ٹاؤن، جہانیاں، ضلع خانیوال 36101-9613030-9

مستقل پتہ: ڈاک خانہ خاص، چک نمبر 136/10 آر، تحصیل جہانیاں، ضلع خانیوال



104371257806

Registrar General of Pakistan

گمشدہ کارڈ ملنے پر قریبی لیٹر بکس میں ڈال دیں



# PUNJAB INDUSTRIAL ESTATES

## DEVELOPMENT AND MANAGEMENT COMPANY

PIE/SIE/1010  
October 16, 2012

M/s. Goldsheff HF Phyto Pharma (Pvt.) Ltd.  
282, H-1, Johar Town  
Lahore.

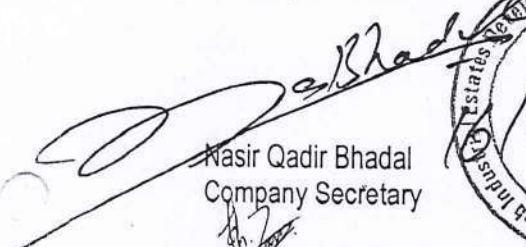
**SUBJECT: POSSESSION OF PLOT NUMBER 537-F**

Dear Sir,

This is with reference to your letter regarding subject matter. Please contact the Site Engineer of Sundar Industrial Estate in connection with the possession of Plot No. 537-F SIE transferred to your name/firm/company through Exit Policy, 2012.

Thanking you,

Yours Truly,  
For Punjab Industrial Estates

  
Nasir Qadir Bhadal  
Company Secretary



A copy is forwarded to Mr. Kashif Tanveer, Site Engineer (0300-4527932), Sundar Industrial Estate with the request to please hand over the possession of Plot No. 537-F to its Allottee M/s Goldsheff HF Phyto Pharma. (Pvt.) Ltd. The attached possession slip may please be returned after doing the needful.

**Note.**

Please do not proceed with excavation of boundary wall with out supervision of the site representative. Any damage done to the utilities without supervision will be borne by you.



Head Office: Commercial Area (North) Sundar Industrial Estate, Raiwind Road, Lahore.  
Tel: 042-35297203-6, Fax: 042-35297207  
Website: [www.pie.com.pk](http://www.pie.com.pk)

An Approved Non Profit Organisation U/S 2(36) of Income Tax Ordinance 2001

**POSSESSION SLIP**

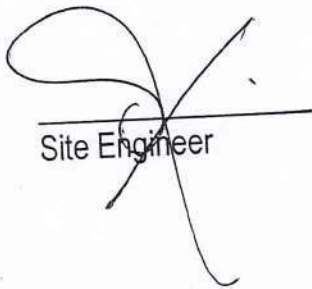
Certify that I have taken over possession of Plot No. 537-F measuring 1689.45 Sq.M from the site Engineer of the Sundar Industrial Estates today the 18-10-2022.


The dimension of the plot is :-

The drawing from m/s Nestak is enclosed. Utilities, i.e. water supply, sewerage, gas, electricity and gate location seen and guided.

Signature of the Allottee Bilal Ahmad

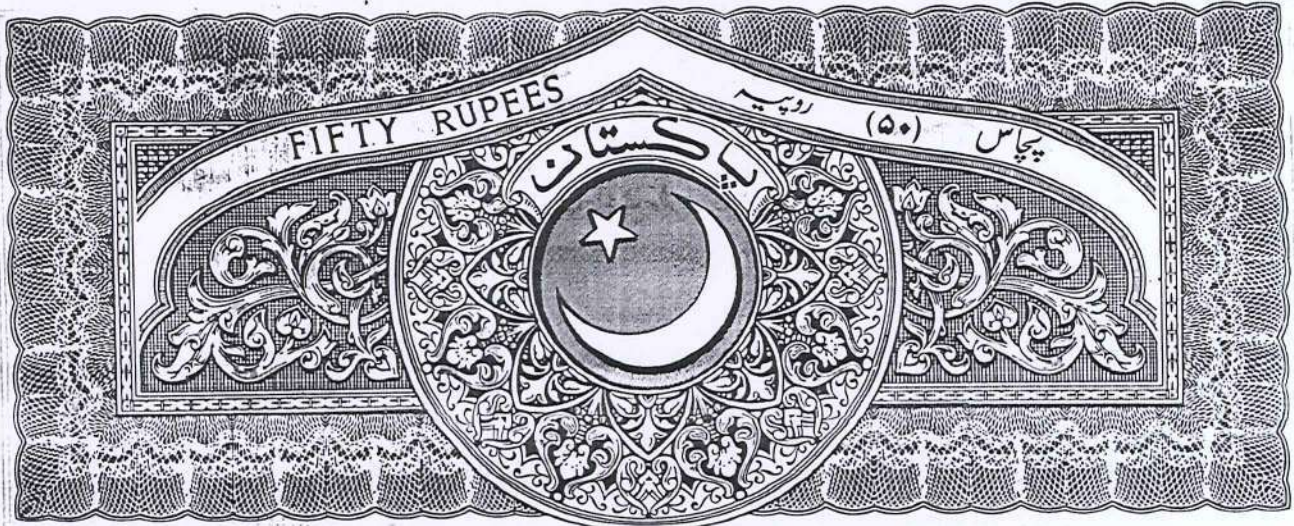
Name of the Allottee Bilal Ahmad

  
Site Engineer

 Estate Engineer Bashir

Engr. Maj. (R) Bashir Hussain Malik  
TI(M)

ESTATE ENGINEER  
BOARD OF MANAGEMENT  
SUNDAR INDUSTRIAL ESTATE



**AGREEMENT TO SELL**

This Agreement to sell (the "Agreement") is made at Lahore on this 17 day of Oct 2012.

BETWEEN

**PUNJAB INDUSTRIAL ESTATES DEVELOPMENT AND MANAGEMENT COMPANY (PIEDMC)** through Company Secretary, hereinafter referred to as the **VENDOR** (which expression shall unless excluded by or repugnant to the context be deemed to include its successors, executors, administrators, representatives and assignees) of the one part;

AND

M/s. Goldsheff HF Phyto Pharma (Pvt) Ltd through its Chief Executive/Director Bilal Ahmad S/o Nizam Ali Siddiqui having CNIC 35202-456885-5 hereinafter referred to as the **VENDEE** (which expression shall unless excluded or repugnant to the context be deemed to include his/her/its/their heirs, successors, executors, administrators, representatives and assignees) of the other part.

WHEREAS the Vendor represents that it is the lawful owner in possession of and agrees to sell and the Vendee agrees to buy Plot No. S37-F measuring 1689.45 square meter through Exit Policy, 2012 situated at Sundar Industrial Estate, Sundar Raiwind Road, Lahore more particularly described in the Schedule annexed herewith (hereinafter referred to as the PLOT) free from all encumbrances, attachments, charges and other claims subject to the terms and conditions hereunder contained.

AND WHEREAS the previous allottee/Vendee has already paid to the Vendor along with the Application Form dated \_\_\_\_\_ a sum of Rs. 2782050/- which has been received from the previous allottee and the same amount has been transferred against the plot in favour of new allottee/Vendee along with new Application Form dated 22/01/2012. A sum of Rs. 2782050/- as a Non-Refundable Transfer Fee through Exit Policy has also received by the Vendor against the plot.

NOW THEREFORE, IT IS HEREBY agreed by and between the Parties as follows:

**CONDITIONS OF THE VENDOR:**

I. The Vendor hereby undertakes that:

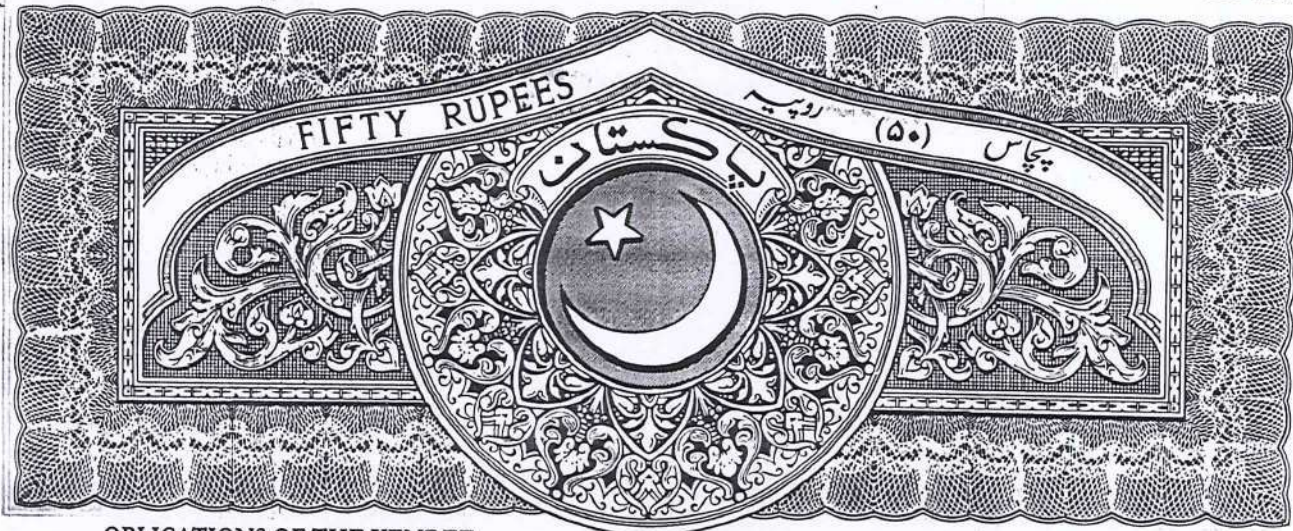
1. The time schedule for the Vendee shall start from the date of taking physical possession of the plot. The Vendee shall be bound to take physical possession of the Plot(s) with seven days of being intimated about the same by PIEDMC.
2. That Vendor shall maintain the Sundar Industrial Estate in the best possible way for maintaining roads, sewerage, construction plan etc for which the Vendor may impose and/or collect charges/duties on annual/biannual/monthly basis on the Vendee pursuant to clause II(6).
3. That the Vendor shall have right subject to Seven (07) days prior notice, to pull down/demolish or seal the building during and/or after completion of construction, if the same is not in accordance with the building plan or bear any other illegality (ties).
4. Upon full payment of the amount noted above, and completion of the project in accordance with the terms herein stated and after the Vendee obtains Certificate of Completion from the Vendor, the Vendor shall enter into a Sale/Transfer Deed with respect to the sale/transfer of the Plot in favor of the Vendee.



Goldsheff HF  
Phyto pharma (pvt)

Bilal Ahmad





## OBLIGATIONS OF THE VENDEE:

II. The Vendee hereby undertakes that:

1. The construction on the Plot shall commence within 3 months of taking physical possession of the plot and the new allottee/Vendee shall be bound to take physical possession within 3 days of being informed about the same by the Vendor and the project shall be completed within the next 18 months. This Agreement to Sell is valid only for the said period of 21 months from the date of its execution. Failure to commence construction or completion of the project within above said time lines shall result in, in addition to any other penalty for which the Vendee may be liable, the cancellation of the Plot(s) against a cancellation charge of 5 % from the amount transferred against the Plot in favour of the new allottee/Vendee as mentioned above being Rs. 278205/-. The superstructure, if any, standing on the Plot shall automatically stand transferred to the Vendor in case of such cancellation without any payment on the part of the Vendor. Furthermore the amount refundable in case of cancellation of plot of the new allottee will be not more than the actual price of the plot at which PIEDMC sold this plot to the previous allottee namely M/s Karachi Bottle Supply Co.
2. The construction of the building shall be strictly in accordance with the following specifications -
  - a) PIEDMC's Building Regulations.
  - b) Pakistan Building Code
  - c) Pakistan Standards Institute's specifications
  - d) Punjab Provincial Building Specifications
3. The Vendee shall strictly abide by the Building Bye-Laws, and those enacted by the Vendor from time to time. In case of violation of Building Bye-Laws contained herein, the Vendor shall have right to impose penalty/charge keeping in view, the nature of violation. The Vendor shall also have a right to direct Vendee to rectify any such violation within a specified time period.
4. The Vendee shall follow Pakistan Environmental Protection Act 1997/National Environment Quality Standards for preservation and conservation of environment in the Industrial Estate and disposal of waste/effluents. If the Vendee is found, violating the said laws during or after construction of building, the Vendor shall have right to impose fine/penalty as applicable and direct the Vendee to rectify such violation within a specified period. In case Vendee fails to rectify the violation, the Vendor may order any appropriate measure including but not limited to sealing of premises to stop any such violation.
5. The Vendee shall use the Plot solely for the purpose(s) specified in the Application Form. In order to change nature of business, the Vendee shall obtain prior "No Objection Certificate" (NOC) from the Vendor, which would solely be in the discretion of the Vendor.
6. The Vendee shall pay Annual Recurring Expenses (ARE)/Monthly Recurring Expenses (MRE) to the Vendor for which the Vendor shall issue receipt to the Vendee. The AREs/MREs shall be paid by the Vendee at the rates and in the mode and manner as may be stipulated by the Vendor from time to time for maintenance of Industrial Estate.
7. The Vendee shall have right to install sign board measuring 4 fts 18 fts (in height and width) as approved by the Vendor. In case, the Vendee intends to install sign board of different measurements/dimensions, prior permission of Vendee shall be obtained in writing and Vendor may impose charges for any such sign board(s).
8. The Vendee shall regularly and promptly pay all utility bills, Government charges, cess, Federal and/or Provincial taxes and any other tax(s) imposed by the Government from time to time.

The Vendee shall not change its management/ownership structure or otherwise transfer its management/ownership to any other party without prior written permission of the Vendor failing which the Plot(s) shall be liable for cancellation against a cancellation charge of 5 % of the amount transferred against the plot in favour of the new allottee/Vendee as mentioned above being Rs. 278205/-



Goldsheff Mr  
Phyto pharma (pvt)

*Bilal Ahmad*

- III. All clauses contained herein shall be applicable *ipso facto* to any other person(s) acting under the Vendee.
- IV. In the event of dispute, difference or contentions regarding meaning or interpretation of any clause/expression contained herein, the matter shall be referred to the Chief Executive, Punjab Industrial Estates Development & Management Company who shall decide matter in accordance with provisions of the Arbitration Act, 1940 (Act X of 1940).. The Award given by the Arbitrator shall be final and binding upon the Parties and persons acting under them.
- V. The Parties hereby agree that any notice or communication shall be in writing and deemed to be delivered if given by hand or sent by recorded delivery or by registered post or facsimile transmission on the address(es) mentioned in the recitals or to such address(es) as any party may notify to the other in writing.
- VI. Subject to Clause IV in case of any dispute between parties due to which resort to the Court of Law becomes inevitable, the Courts at Lahore shall have exclusive jurisdiction to adjudicate upon.
- VII. It is clarified for the removal of any doubt that any amounts paid, if any, by the new allottee/Vendee to the previous allottee/Vendee has nothing to do with the Vendor and the same and/or the Non-Refundable Transfer Fee received by the Vendor shall not be claimed by the new allottee/Vendee from the Vendor under any circumstances whatsoever.

IN WITNESS WHEREOF, the Parties have set and subscribed their respective hands on this 17 day of Oct in the year 2012 at Lahore in presence of witnesses.

Goldsheff HF  
Phyto pharma (pvt) Ltd.

VENDOR

*[Handwritten Signature]*  
WITNESS



VENDEE

*[Handwritten Signature]*



WITNESS

SIGNATURE

NAME Khawaja Muhammad Zaman  
NIC# 35201-2625109-7

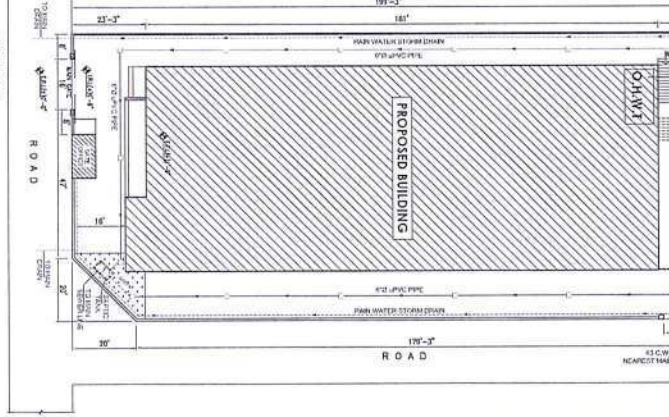
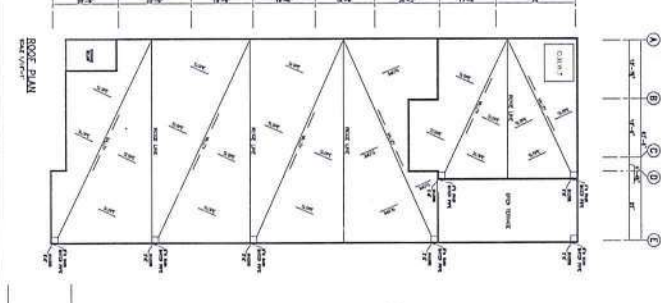
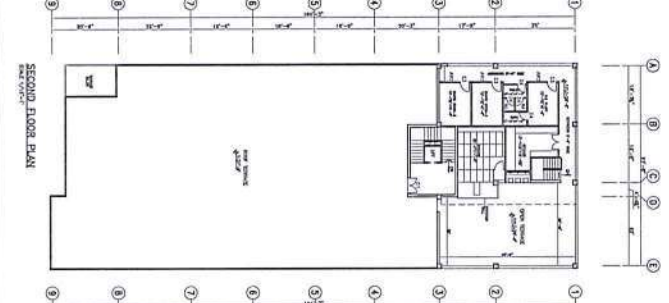
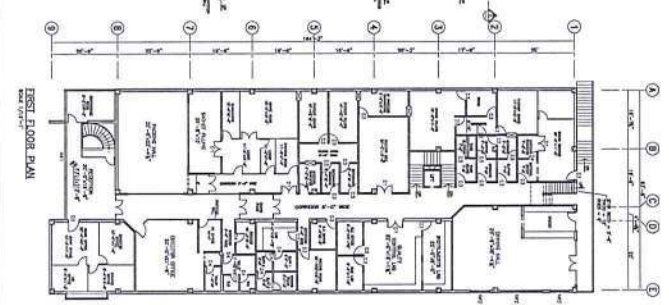
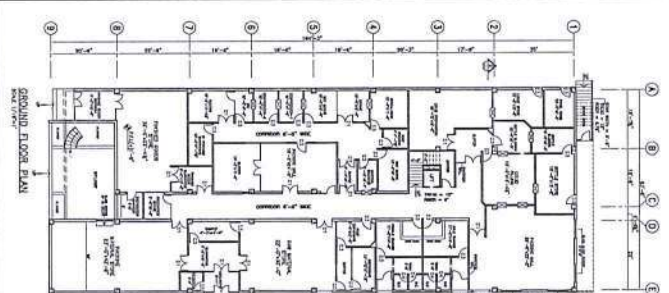
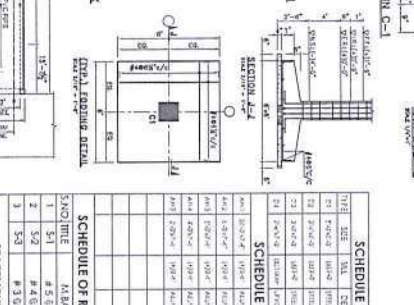
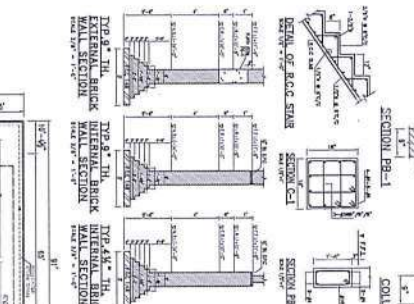
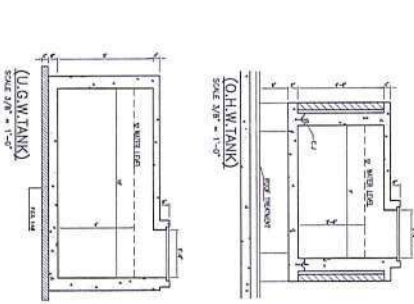
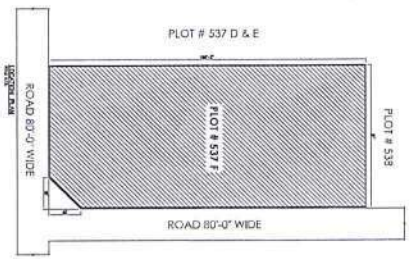
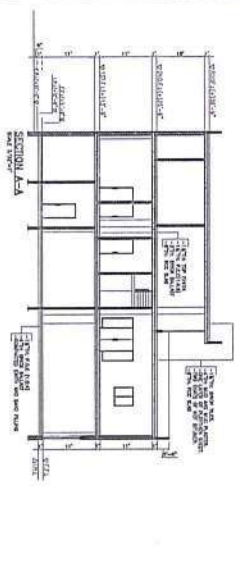
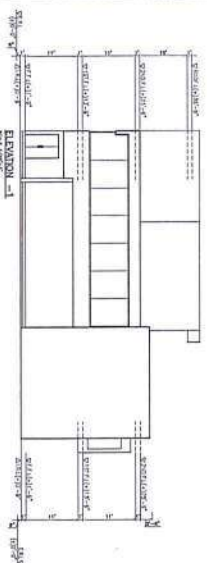
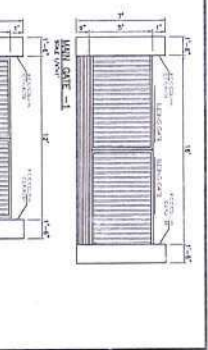
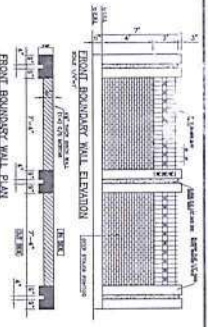
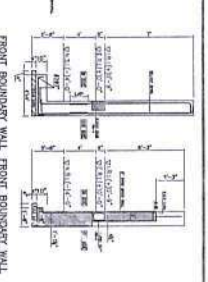
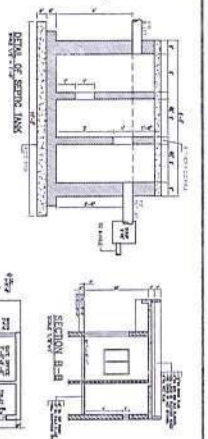
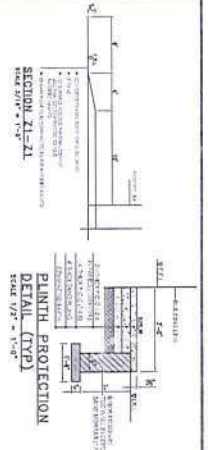
SIGNATURE

NAME KHURRAM SHEHZAD  
NIC# 35403-3419474-5



**ANNEXURE-C**

**LAYOUT MAP OF PROPOSED SITE**



**SCHEDULE OF DOORS**

TYPE	NO.	DESCRIPTION
1	1	WOOD DOOR
2	2	WOOD DOOR
3	3	WOOD DOOR
4	4	WOOD DOOR
5	5	WOOD DOOR
6	6	WOOD DOOR
7	7	WOOD DOOR
8	8	WOOD DOOR
9	9	WOOD DOOR
10	10	WOOD DOOR
11	11	WOOD DOOR
12	12	WOOD DOOR
13	13	WOOD DOOR
14	14	WOOD DOOR
15	15	WOOD DOOR
16	16	WOOD DOOR
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92	92	WOOD DOOR
93	93	WOOD DOOR
94	94	WOOD DOOR
95	95	WOOD DOOR
96	96	WOOD DOOR
97	97	WOOD DOOR
98	98	WOOD DOOR
99	99	WOOD DOOR
100	100	WOOD DOOR

**SCHEDULE OF AREAS**

NO.	DESCRIPTION	AREA (SQ. FT.)
1	FLOOR AREA	18,111
2	ROOF AREA	10,115
3	WALL AREA	2,115
4	CEILING AREA	142
5	STAIR CASE AREA	2,115
6	TOTAL CONCRETE AREA	31,598
7	TOTAL BRICK AREA	11,888
8	TOTAL ROOF AREA	7,029

AS BUILT SUBMISSION DRAWING  
SHEET 1/1

**ANNEXURE-D**

**LAB REPORTS (AIR, NOISE,  
WATER)**



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



Validation for Stack & Ambient Monitoring / Sampling

Validation # 1515-A

Issue Date: 05-09-2024

Emission Monitoring under CTM-34 or OTM-39			
Facility Name & Address Phone	GoldSheff Nutraceutical Private Limited.	No of Stacks /Sampling Point 01 (Ambient Air)	
	Sundar Industrial Estate Raiwind Road Lahore.		
Industry Category	Baseline Study		
Analyzer Model & Make	AQMS ✓		
Average stack emission Values of CO, NOx (in mg/nM3)			
Excess Air / Excess Oxygen (%age):-			
Analyzer exposed for Ramp-Up phase to the sample gas for 5 minutes	Yes	NO	NA
Analyzer flow rate and EC temperature monitored during calibration and testing	Yes	No	NA
Test Data Phase of sample gas recorded with 15 second interval	Yes	No	NA
All key requirements to ensure QA/QC complied for said EPA approved Method	Yes	No	NA
<b>Particulate Matter (PM) Monitoring / Sampling under USEPA Method 5 / 17</b>			
Model & Make of Iso-kinetic PM Assembly			
The PM sampling train is complete as per Method 5 & 17	Yes	No	NA
Leak Test performed prior to sampling	Yes	No	NA
Field data Sheet for PM Sampling filled during PM sampling	Yes	No	NA
Data for determining of "K" factor & DGM "Y" Factor filled during sampling	Yes	No	NA
All method key requirements during sampling were compiled to ensure QA/QC	Yes	No	NA
Filter of Particulate matter is suitable for metal Testing	Yes	No	NA
<b>SOx sampling as per Method 8 (Thorin Indicator Method)</b>			
The right absorbent solution are available for SOx Sampling	Yes	No	NA
The equipment is capable to maintain flow rate @ 2.0LPM or as per method 8 requirement	Yes	No	NA
Sampling for SOx is performed as per method	Yes	No	NA
<b>Ambient Air Quality Monitoring by Automatic Monitors for CO, O3, SO2, NOx, PM2.5 &amp; PM10</b>			
In case of continuous monitoring at a site, One Point QC Check Single analyzer & zero/span check is performed every 14 days.	Yes	No✓	NA
The CE of NOx analyzer is ensured to be maintained within 96% - 104.1%	Yes	No✓	NA
Zero/span check is performed prior to starting ambient monitoring	Yes✓	No	NA
All key requirements for Critical & Operational Criteria for ambient air monitoring by automatic monitors were compiled during monitoring	Yes✓	No	NA
The measuring techniques of monitors comply PEQS	Yes✓	No	NA
<b>Ambient Air Sampling of SPM, PM10, Pb by High Volume Sampler</b>			
In case of Sampling for SPM through samplers, the flow rate of sampler comply PEQS (1.1m3/min).	Yes✓	No	NA
Calibration of Sampler performed prior to sampling	Yes✓	No	NA
<b>Vehicular Emissions &amp; Noise Measurement</b>			
Sampling of Vehicle emissions and noise measurement have been performed as per method and SOPs	Yes✓	No	NA

Remarks (if Any):-

Signature

  
Research Officer  
Environment Protection Agency  
Punjab Lahore

Monitoring Date

29-08-2024

Signature  
Assistant Analyst  
Irtaza Ahmad

  
ENVIRONMENTAL SERVICES PAKISTAN  
ESTPAK



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



**Validation for Wastewater & Drinking Water**

Validation # 1515-B

Issue Date: 05-09-2024

Project / Unit Name with Address and contact details		GoldSheff Nutraceutical Private Limited.			Sampling Point Tap Water			
		Sundar Industrial Estate Raiwind Road Lahore.						
Name of Private Lab		Environmental Services Pakistan (ESPAK)						
Waste Water (WW) Treatment facility Primary Secondary Tertiary NA				Drinking Water (W) Treatment Facility Chemical RO NA				
Total WW collected Sample .....				Total Collected Drinking water samples.....				
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 <sup>3</sup> /hr from each outlet (Optional)	Water intake m <sup>3</sup> /hr (Optional)	Water Mass balance complied during sampling (Optional)	Sample Type GROUND WATER				
			Yes	No	Grab✓	Composite		
Parameter	Matrix		Container	Sample Size	Preservation	Yes	NO	NA
	W	WW						
Coliform, Total or Fecal	✓	—	Sterile Container	100 mL	Refrigerate 6 C	✓		
Coliform, Total or Fecal, Chlorinated Water	✓	—	Sterile Container	100 mL	0.008% Thiosulphate & cooled 6 C	✓		
Color, Turbidity	✓	—	P,G	500 mL	Cool 6 C	✓		
Hardness, Total	✓	—	P,G	500ml	HNO3 to pH<2	✓		
Nitrogen, Nitrate + Nitrite, Phenolic Compounds, Oil & Grease, COD, NH3	✓	—	P,G	2000 mL	H2SO4 to pH < 2, Cool 6C	✓		
Metals, General	✓	—	P,G Rinsed 1.1 HNO3	500 mL	HNO3 to pH < 2	✓		
Cyanide, Total	✓	—	P,G	500 mL	NaOH to pH > 12, Cool 6C	✓		
Pesticides, General	—	—	Glass	1 Liter	Cool 6 C			
<b>Field Parameters*</b>								
Field parameter			pH meter, Model Make	Measurement Method	Calibrated in Field	Measured value		
pH					Yes NO			
Temp								
Cl								

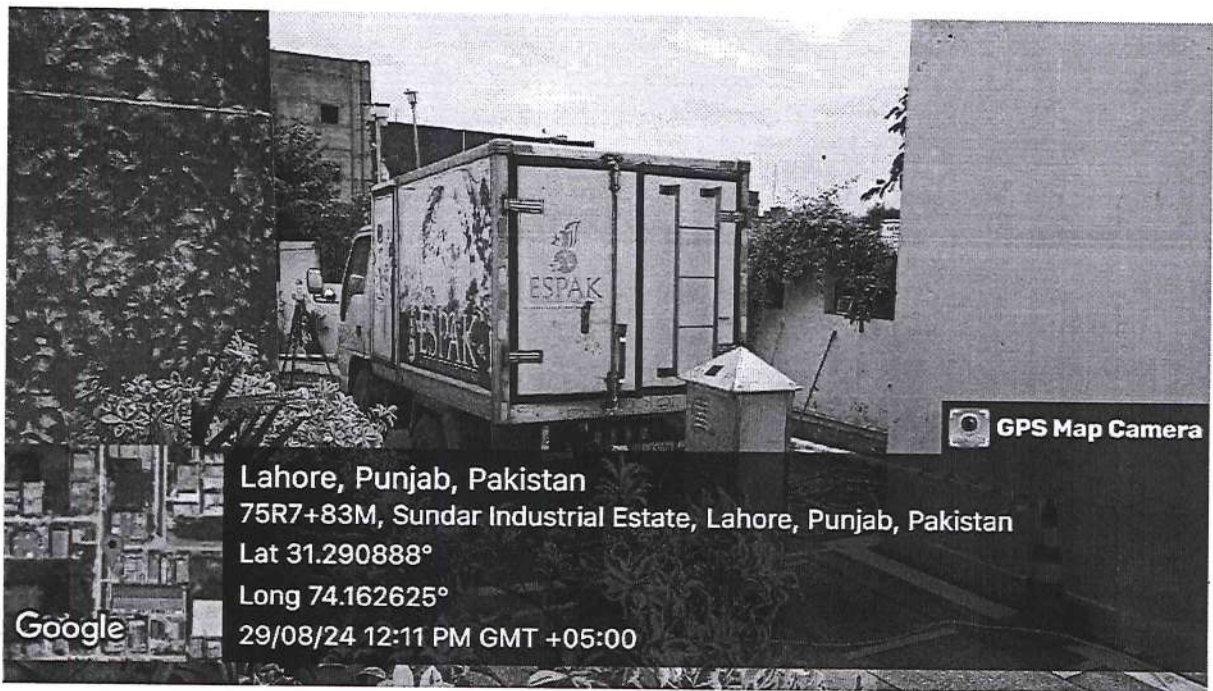
Signature

Research Officer  
 Environment Protection Agency  
 Punjab Lahore

Monitoring Date  
29-08-2024

Signature  
Assistant Analyst  
Irtaza Ahmad





## CHEMICAL ANALYSIS TEST REPORT (AMBIENT AIR)



Reference Number: **ESPAK/00765P/24/AA/06208/00621** Date: **02/09/2024**

Name of Industry/Client: **Goldsheff Nutraceuticals Private Limited**

Address: **Plot No. 537-F Sundar Industrial Estate, Raiwind Road, Lahore.**

Validation Officer: **Muhammad Nadeem, Research Officer**

Nature of Sample: **Ambient Air** Monitoring Location: **Near Main Gate**  
(GPS: 31.290888°N 74.162625°E)

Date of Sample Collection: **29/08/2024**

Sample Collected/Sent By: **Irtaza Ahmad, Analyst (Field), ESPAK** Grab / Composite: **Continuous - 24 Hours**

Date of Completion of Analysis: **30/08/2024**

S. No	Parameters	Limit Values (PEQS-24 Hours)	Concentration	Method / Equipment Used	Remarks
1	Carbon Monoxide (CO)	5 mg/m <sup>3</sup> (8 Hours)	0.8 mg/m <sup>3</sup>	Non Dispersive Infrared Absorption (NDIR)	Within Prescribed Limits
2	Sulfur Dioxide (SO <sub>2</sub> )	120 µg/m <sup>3</sup>	8.7 µg/m <sup>3</sup>	UV Fluorescence (UVF)	Within Prescribed Limits
3	Ozone (O <sub>3</sub> )	130 µg/m <sup>3</sup> (1 Hour)	22.3 µg/m <sup>3</sup>	Non Dispersive UV Absorption	Within Prescribed Limits
4	Oxides of Nitrogen as NO	40 µg/m <sup>3</sup>	12.0 µg/m <sup>3</sup>	Chemiluminescence Detection	Within Prescribed Limits
5	Oxides of Nitrogen as NO <sub>2</sub>	80 µg/m <sup>3</sup>	21.9 µg/m <sup>3</sup>	Chemiluminescence Detection	Within Prescribed Limits
6	Particulate Matter PM <sub>2.5</sub>	35 µg/m <sup>3</sup>	27.5 µg/m <sup>3</sup>	Particulate Sensor	Within Prescribed Limits
7	Particulate Matter PM <sub>10</sub>	150 µg/m <sup>3</sup>	129 µg/m <sup>3</sup>	Particulate Sensor	Within Prescribed Limits
8	Suspended Particulate Matter (SPM)	500 µg/m <sup>3</sup>	382 µg/m <sup>3</sup>	High Volume Sampler (HVS)	Within Prescribed Limits

PEQS: Punjab Environmental Quality Standards for Ambient Air, 2016

• Uncertainty of Measurement (UoM) data will be provided on request, where available. The statement of conformity, if provided in the report, is based on the decision rule of simple acceptance or rejection with equal shared risk due to measurement uncertainty.

**Note:**

- The report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of this report lies with the client.
- The values represent sample conditions when monitoring/testing was carried out.
- The report data is not intended to be used legally by the client.

1. Sample Analyzed By: Irtaza Ahmad  
Analyst (Field)

2. Name of Chief Analyst with Seal: Muhammad Arfan



3. Signature of Incharge of the Environmental Laboratory:

Name: Imran Malik  
General Manager  
Date: 02/09/2024



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

Report Reference	ESPAK/00765P/24/AA/06208/00621
Name of Industry/ Client	Goldsheff Nutraceuticals Private Limited
Address	Plot No. 537-F Sundar Industrial Estate, Raiwind Road, Lahore.
Monitoring Location	Near Main Gate
GPS Coordinates	(GPS: 31.290888°N 74.162625°E)
Monitoring Date	29/08/2024 to 30/08/2024

Date - Time	CO	SO <sub>2</sub>	O <sub>3</sub>	NO	NO <sub>2</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>	TSP	Temp.	RH	Wind Speed	Wind Direction
	mg/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	ug/m <sup>3</sup>	°C	%	m/s	
29-08-24 12:00	0.8	7.1	22.3	13.9	21.4	29.4	130	382	28	75	5	SW
29-08-24 13:00	0.7	9.1		13.5	22.4	26.4	135		28	75	4.9	SW
29-08-24 14:00	0.6	8.2		9.8	22.1	29.4	142		28	79	5.0	SW
29-08-24 15:00	0.8	9.8		11.5	21.3	26.4	131		27	87	4.6	SW
29-08-24 16:00	0.9	9.2		9.6	21.9	27.4	143		27	87	4.8	SW
29-08-24 17:00	1.0	10.0		13.6	20.4	22.4	125		27	87	5.7	SW
29-08-24 18:00	0.8	9.5		11.0	22.4	24.4	133		27	86	4.8	SW
29-08-24 19:00	1.0	9.3		10.6	22.1	28.4	136		27	87	5	S
29-08-24 20:00		8.9		10.0	21.6	27.9	138		27	87	4.7	S
29-08-24 21:00		7.5		11.8	23.7	25.9	143		29	82	5.0	S
29-08-24 22:00		9.6		10.3	22.5	26.9	140		27	94	5.0	S
29-08-24 23:00		7.1		13.8	20.6	27.9	128		26	99	4.7	S
30-08-24 0:00		7.8		12.3	20.1	25.9	121		26	97	5.0	S
30-08-24 1:00		9.4		11.7	21.5	24.9	119		27	93	4.8	S
30-08-24 2:00		7.9		12.5	23.6	23.9	115		27	92	4.8	S
30-08-24 3:00		9.6		12.9	23.9	23.9	116		26	94	5.6	S
30-08-24 4:00		8.1		12.3	23.4	25.9	121		25	97	6.5	SE
30-08-24 5:00		7.8		13.1	20.0	28.5	127		24	97	5.9	SE
30-08-24 6:00		9.4		9.9	21.5	29.5	131		24	97	4.7	SE
30-08-24 7:00		8.5		13.5	22.5	32.3	127		24	97	4.7	SE
30-08-24 8:00		8.4		11.9	23.1	29.3	125		24	98	4.9	SE
30-08-24 9:00		8.6		13.7	21.2	30.3	121		24	98	4.7	SE
30-08-24 10:00		7.1		13.0	22.1	32.3	122		25	96	4.7	SE
30-08-24 11:00		9.8		12.4	20.9	30.3	122		27	91	4.7	SE

Average	0.8	8.7	22.3	12.0	21.9	27.5	129	382
Maximum	1.0	10.0	22.3	13.9	23.9	32.3	143	382
Minimum	0.6	7.1	22.3	9.6	20.0	22.4	115	382

Monitored By: **Irtaza Ahmad**



**Lahore Office**  
Office No. 731,  
Block - 2, Sector D1,  
Shah Jilani Road, Township  
Lahore, Pakistan.  
Tel: +92 (42) 3515 4015-16

**Islamabad Office**  
Office No. 314, 3rd  
Floor, Gulberg Empire,  
Gulberg Greens,  
Islamabad, Pakistan.  
Tel: +92 (51) 5915060

**Peshawar Office**  
Unit No. 244-TF,  
Dean's Trade Center  
Sadar Cantt,  
Peshawar, Pakistan.  
Tel: +92 312 0849999



## NOISE MONITORING REPORT



Reference Number: ESPAK/00765P/24/N/06209/00610 Date: 02/09/2024

Name of Industry/Client: Goldsheff Nutraceuticals Private Limited

Address: Plot No. 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

Validation Officer: Muhammad Nadeem, Research Officer

Nature of Sample: Noise

Date of Sample Collection: 29/08/2024 Grab / Composite: Continuous-24 Hours

Sample Collected/Sent By: Irtaza Ahmad, Analyst (Field), ESPAK

Date of Completion of Analysis: 30/08/2024

Method/Equipment Used: Sound Level Meter

S. No	Measurement Point	Limit Values (PEQS)	Noise Level in dB(A) Leq	Remarks
1	Near Main Gate (GPS: 31.290888°N 74.162625°E) - Day time	75 dB(A)	65 dB(A)	Within Prescribed Limits
2	Near Main Gate (GPS: 31.290888°N 74.162625°E) - Night time	65 dB(A)	60 dB(A)	Within Prescribed Limits


PEQS: Punjab Environmental Quality Standards for Noise in Industrial Area, 2016 Day Time Hours (6:00 am to 10:00 pm) Night Time Hours (10:00 pm to 6:00 am).

- Uncertainty of Measurement (UoM) data will be provided on request, where available. The statement of conformity, if provided in the report, is based on the decision rule of simple acceptance or rejection with equal shared risk due to measurement uncertainty.

### Note:

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- The responsibility of the ethical use of this report lies with the client.
- The values represent sample conditions when monitoring/testing was carried out.
- The report data is not intended to be used legally by the client.

1. Sample Analyzed By: Irtaza Ahmad  
Analyst (Field)

2. Name of Chief Analyst with Seal: Muhammad Arfan 

3. Signature of Incharge of the Environmental Laboratory:

Name: Imran Malik  
General Manager

Date: 02/09/2024



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



# ENVIRONMENTAL SERVICES PAKISTAN

PAK EPA & PUNJAB EPD CERTIFIED

Report Reference		ESPAK/00765P/24/N/06209/00610
Client Name		Goldsheff Nutraceuticals Private Limited
Address		Plot No. 537-F Sundar Industrial Estate, Raiwind Road, Lahore.
Monitoring Location		Near Main Gate
GPS Coordinates		(GPS: 31.290888°N 74.162625°E)
Monitoring Date		29/08/2024 to 30/08/2024
Day/Night	Date & Ending Hour	Noise
		dB (A) Leq
Day Time	29-08-24 12:00	64.0
	29-08-24 13:00	63.1
	29-08-24 14:00	63.0
	29-08-24 15:00	64.6
	29-08-24 16:00	65.5
	29-08-24 17:00	65.2
	29-08-24 18:00	65.1
	29-08-24 19:00	65.6
	29-08-24 20:00	65.8
	29-08-24 21:00	66.3
	29-08-24 22:00	65.2
	30-08-24 7:00	62.0
	30-08-24 8:00	64.3
	30-08-24 9:00	67.3
	30-08-24 10:00	66.5
30-08-24 11:00	66.2	
Average Day time		65
Night Time	29-08-24 23:00	63.1
	30-08-24 0:00	55.2
	30-08-24 1:00	58.3
	30-08-24 2:00	60.0
	30-08-24 3:00	66.0
	30-08-24 4:00	57.1
	30-08-24 5:00	57.5
30-08-24 6:00	62.1	
Average Night time		60
Monitored By:		Irtaza Ahmad



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Shah Jilani Road, Township  
Lahore, Pakistan.  
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Sadar Cantt,  
Peshawar, Pakistan.  
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[info@espak.com.pk](mailto:info@espak.com.pk)



## CHEMICAL ANALYSIS TEST REPORT (GROUND WATER)



Reference Number: ESPAK/00765P/24/GW/06210/00685 Date: 03/09/2024

Name of Industry / Client: Goldsheff Nutraceuticals Private Limited

Address: Plot No. 537-F Sundar Industrial Estate, Raiwind Road, Lahore.

Validation Officer: Muhammad Nadeem, Research Officer

Nature of Sample: Groundwater from Tap

Date Sample Received: 29/08/2024 Grab / Composite: Grab

Date of Sample Collection: 29/08/2024

Sample Collected / Sent By: Irtaza Ahmad, Analyst (Field), ESPAK

Date of Completion of Analysis: 03/09/2024

S. No	Parameters	Limit Values (DW-PEQS)	Concentration	Method / Equipment Used	Remarks
1	Total Coliforms	----	ND	SMWW 9222 B	----
2	Fecal Coliform Bacteria	Must not be detectable in any 100 mL sample	ND	SMWW 9222 H	Within Limits
3	E. Coli	Must not be detectable in any 100 mL Sample	ND	SMWW 9222 H	Within Limits
4	Taste	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Limits
5	Odor	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Limits
6	pH*	6.5-8.5	7.9	SMWW 4500H*B	Within Limits
7	Turbidity	<5 NTU	1.4 NTU	SMWW 2130B	Within Limits
8	Color	≤15 TCU	ND	SMWW 2120 C	Within Limits
9	Total Dissolved Solids (TDS)*	<1000 mg/L	512 mg/L	SMWW 2540C	Within Limits
10	Total Hardness as CaCO <sub>3</sub> *	<500 mg/L	421 mg/L	SMWW 2340C	Within Limits
11	Residual Chlorine	0.2-0.5 mg/L	ND	SMWW 4500-Cl G	----
12	Chloride (as Cl <sup>-</sup> )*	<250 mg/L	42 mg/L	SMWW 4500Cl*B	Within Limits
13	Fluoride (F <sup>-</sup> )*	≤1.5 mg/L	0.7 mg/L	U.S. EPA 9214	Within Limits
14	Cyanide (CN <sup>-</sup> )	≤0.05 mg/L	ND	SMWW 4500 CN <sup>-</sup> F	Within Limits
15	Nitrate (NO <sub>3</sub> <sup>-</sup> )	≤50 mg/L	1.0 mg/L	SMWW 4500NO <sub>3</sub> <sup>-</sup> B	Within Limits
16	Nitrite (NO <sub>2</sub> <sup>-</sup> )	≤3 mg/L	ND	SMWW 4500NO <sub>2</sub> <sup>-</sup> B	Within Limits
17	Phenolic Compounds (as Phenols)	NGVS	ND	SMWW 5530 C	----
18	Aluminum (Al)	≤0.2 mg/L	ND	SMWW 3111	Within Limits
19	Antimony (Sb)	≤0.005 mg/L	ND	SMWW 3111	Within Limits
20	Arsenic (As)	≤0.05 mg/L	ND	SMWW 3114 B	Within Limits
21	Barium (Ba)	0.7 mg/L	ND	SMWW 3111	Within Limits
22	Boron (B)	0.3 mg/L	ND	SMWW 4500-B B	Within Limits

*cepa*

## CHEMICAL ANALYSIS TEST REPORT (GROUND WATER)



Reference Number: ESPAK/00765P/24/GW/06210/00685 Date: 03/09/2024  
 Name of Industry / Client: Goldsheff Nutraceuticals Private Limited

S. No	Parameters	Limit Values (DW-PEQS)	Concentration	Method / Equipment Used	Remarks
23	Cadmium (Cd)	0.01 mg/L	ND	SMWW 3111	Within Limits
24	Chromium (Cr)	≤0.05 mg/L	ND	SMWW 3111	Within Limits
25	Copper (Cu)	2.0 mg/L	ND	SMWW 3111	Within Limits
26	Lead (Pb)	≤0.05 mg/L	ND	SMWW 3111	Within Limits
27	Manganese (Mn)	≤0.5 mg/L	ND	SMWW 3111	Within Limits
28	Mercury (Hg)	≤0.001 mg/L	ND	SMWW 3112	Within Limits
29	Nickel (Ni)	≤0.02 mg/L	ND	SMWW 3111	Within Limits
30	Selenium (Se)	0.01 mg/L	ND	SMWW 3114 B	Within Limits
31	Zinc (Zn)	5.0 mg/L	0.5 mg/L	SMWW 3111	Within Limits

DW-PEQS: Drinking Environmental Quality Standards for Drinking Water Quality, 2016

SMWW: Standard Methods for the Examination of Water and Waste Water, American Public Health Association, American Water Works Association, Water Environment Federation USA

USEPA: United States Environmental Protection Agency

NGVS: No Guideline Value Set


ND: Not Detected

- Laboratory tests and measurements were carried out at 25 ± 5 °C and ≤ 75 % Relative Humidity conditions unless required otherwise.
- Uncertainty of Measurement (UoM) data will be provided on request, where available. The statement of conformity, if provided in the report, is based on the decision rule of simple acceptance or rejection with equal shared risk due to measurement uncertainty.

**Note:**

- The report should be reproduced as a whole and not in parts.
- The responsibility of the ethical use of this report lies with the client.
- The values represent sample conditions when monitoring/testing was carried out.
- The report data is not intended to be used legally by the client.
- Only parameters marked with asterisk (\*) are ISO 17025:2017 accredited.

1. Sample Analyzed By: Nageen Arshad Riaz Ahmad Muhammad Shahid Khizra Bano Samahir Khalid  
 Analyst (Chemical) Analyst (Chemical) Analyst (Chemical) Analyst (Microbiology) Analyst (Chemical)

2. Name of Chief Analyst with Seal: Muhammad Arfan 

3. Signature of Incharge of the Environmental Laboratory:

Name: Imran Malik  
 General Manager  
 Date: 03/09/2024



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

**ANNEXURE-E**

**GOOGLE EARTH MAPS**

aceuticals (PVT) Ltd



Legend

- Bazauc
- Oppo N
- Goldsh
- Goldsh
- Goldsh
- Mosque
- Mosque
- Sunder

Sunder Park

Mosque Sunder Estate

Al Mukhtar Flour and General Mills Pvt

Ismael Industries Snack Co

Oppo Mobile Factory

Goldsheff Nutraceuticals Pvt Ltd  
Goldsheff International  
Goldsheff Nutrition

Genetics Pharmaceuticals

Mil Medical Pvt

Horizon Healthcare Pvt Ltd

Nexi

Tillus Pharma

azaug

Shanr Complex

**ANNEXURE-F**  
**TRANSFER LETTER**



**PUNJAB INDUSTRIAL ESTATES**  
DEVELOPMENT AND MANAGEMENT COMPANY

**TRANSFER LETTER**

PIE/SIE/CS/-1786  
August 27, 2012

M/s Goldsheff HF Phyto Pharma (Pvt.) Ltd.  
282, H-1, Johar Town,  
Lahore.

Transfer of Plot No. 537-F Sundar Industrial Estate, Sundar Raiwind Road, Lahore

Reference your application dated August 08, 2012. Plot No. 537-F measuring 1,689.45 Sq. M situated at Sundar Industrial Estate, Sundar Raiwind Road, Lahore has now been transferred in your name on the same terms and conditions as it was held by the original Allottee Company/Firm/Individual.

The following changes have been effected:-

Change in Allottee Name from M/s Karachi Bottle Supply Co.

To

M/s Goldsheff HF Phyto Pharma (Pvt.) Ltd.

*Nasir Qadir Bhadal*  
27/8/12  
NASIR QADIR BHADAL  
COMPANY SECRETARY  
PUNJAB INDUSTRIAL ESTATES  
DEVELOPMENT AND MANAGEMENT  
COMPANY



No. & Date even

A copy is forwarded to ~~M/s Karachi Bottle Supply Co.~~

*Nasir Qadir Bhadal*  
27/8/12  
NASIR QADIR BHADAL  
COMPANY SECRETARY  
PUNJAB INDUSTRIAL ESTATES  
DEVELOPMENT AND MANAGEMENT  
COMPANY



Head Office: Commercial Area (North) Sundar Industrial Estate, Raiwind Road, Lahore.  
Tel: 042-35297203-6, Fax: 042-35297207  
Website: [www.pie.com.pk](http://www.pie.com.pk)  
An Approved Non Profit Organisation U/S 2(36) of Income Tax Ordinance 2001

**ANNEXURE-G**

**LIST OF RAW MATERIAL**

# GOLDSHEFF NUT

Sunderland		
For The Month		
Sr. #	Material Name	UOM
Account		
1	<i>Agnus Castus(Vitex Negundo)</i>	Kg
2	Amomum Subulatum (Cardamom Black)	Kg
3	Anacyclus Pyrethrum (AQR-E-QARHA)	Kg
4	Asparagus Recemosus (Sitawari)	Kg
5	Algae calcium carbonate (Ireland)	Kg
6	Boron	Kg
7	Chamomile Extract	Kg
8	Cranberry Extract	Kg
9	Caster Oil Powder	kg
10	Cinnamomum Zeylanicum	kg
11	Calcium Carbonate (Caco 3)	Kg
12	Celastrus Paniculatus (Malkangni)	Kg
13	Chondroitin Sulfate	Kg
14	Chromium Chloride	Kg
15	Cichorium Intybus (Kasni/Endive)	Kg
16	Chromium Picolinate	Gm
17	Copper Sulphate	Kg
18	Curcuma Longa (Turmeric)	Kg
19	D.C	Kg
20	Diacerein	Kg
21	Citicoline	Kg
22	Ferric Ammonium Citrate	Kg
23	Flaxseed Oil Powder	Kg
24	Green tea extract	Kg
25	Garcinia Cambogia	kg
26	Ginseng Panax 26 %	Kg
27	Ginkgo Biloba	Kg
28	Glucosamin	Kg
29	Glycyrrhiza Glabra (Licorice)	Kg
30	Small Honey	Kg
31	Hyaluronic Acid	Kg
32	Hypericum terrestris	Kg
33	Hypericum Imported	Kg
34	Iodine	Kg
35	Iron Polymartose	Kg
36	JS Compound	kg
37	Kalongi (Nigella Sativa)	Kg
38	Lavandula Officinalis (Astu Khadus)	Kg
39	Lactase Enzyme	Kg
40	L-Glutathione	Kg
41	L-Arginine	Kg
42	Lycopene	kg
43	Lysine Monohydrate	Kg
44	Lutein (Tagetes Erecta)	Kg
45	L Methyl Folate	Gm
46	Lycopodium	Kg
47	Melatonin Extract	Kg
48	Maganese	Gm
49	Mecaroot	Kg
50	Magnesium Oxide	Kg

**ANNEXURE-H**  
**LIST OF MACHINERY**

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance	<b>Document No:</b>		GS/QA/DOC/002-02
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	


### Equipments in Tablets Section

Sr#	Machine name	Equipment #	Capacity	location	origin
1.	Ribbon mixer	PT/EQ/001	100 kg	Wet granulation area	SA Engineering (Pak)
2.	Wet granulator	PT/EQ /002	100kg/ hour	Wet granulation area	SA Engineering (Pak)
3.	Try dryer	PT/EQ /003	100 Kg	Drying area	SA Engineering (Pak)
4.	Dry granulator	PT/EQ /005	100kg/ hour	Dry granulation area	SA Engineering (Pak)
5.	Dry/cone mixer	PT/EQ /006	100kg	Final mixing area	SA Engineering (Pak)
6.	Thai coating machine	PT/EQ /010	100kg	Coating area	SA Engineering (Pak)
7.	Coating pan	PT/EQ /009	50 kg	Coating area	SA Engineering (Pak)
8.	Compression machine #1 (Zp-17)	PT/EQ /007	--	Compression-1	China
9.	Compression machine #2 (Zp-17)	PT/EQ /008	--	Compression-2	Pakistan
10.	Blister machine (Alu-Alu/Pvc) DPB 140	PT/EQ /011	--	Blister area	China
11.	Blister machine (Alu-Alu/Pvc) DPB 260	PT/EQ/018	--	Blister area	China
12.	Fluid Bed Dryer (FBD)	PT/EQ/004	100 kg	Drying area	Digital Scientific Engineering (Pak)
13.	Digital Tablet Counting Machine	PT/EQ/012	--	Packing Area	Pakistan
14.	Manual Induction Sealer Machine	PT/EQ/013	--	Packing Area	Pakistan
15.	Semi-Auto Round Bottle Sticker Machine	PT/EQ/014	--	Packing Area	Pakistan

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance	<b>Document No:</b>		GS/QA/DOC/002-02
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	

### Equipments in Oral Liquid Section


Sr#	Machine name	Equipment #	Capacity	location	origin
1.	Cooking Pan (double jacketed)	PL/EQ/010	1000 L	Syrup manufacturing area	SA engineering (Pakistan)
2.	Cooking Pan (double jacketed)	PL/EQ/015	200 L	Syrup manufacturing area	SA engineering (Pakistan)
3.	Cooking Pan (double jacketed)	PL/EQ/014	100 L	Syrup manufacturing area	SA engineering (Pakistan)
4.	Syrup storage tank	PL/EQ/011	1000 L	Syrup manufacturing area	SA engineering (Pakistan)
5.	Transfer pump	PL/EQ/021	--	Syrup manufacturing area	SA engineering (Pakistan)
6.	Syrup storage tank	PL/EQ/020	100 L	Syrup manufacturing area	SA engineering (Pakistan)
7.	Silverson mixer	PL/EQ/009	--	Syrup manufacturing area	SA engineering (Pakistan)
8.	Colloidal mill	PL/EQ/013	--	Syrup manufacturing area	SA engineering (Pakistan)
9.	Storage tank for filling machine (6 nozzle)	PL/EQ/019	200 L	Syrup filling area	SA engineering (Pakistan)
10.	Liquid Labeling machine-1 (60-120ml)	PL/EQ/001	60/min (variable)	Syrup packing hall	SA engineering (Pakistan)
11.	Liquid Labeling machine-2 (240ml)	PL/EQ/002	60/min (variable)	Syrup packing hall	SA engineering (Pakistan)

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance	<b>Document No:</b>	GS/QA/DOC/002-02	
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	

1.	Liquid Filling machine (automatic)	PL/EQ/004	6 nozzle	Syrup filling area	SA engineering (Pakistan)
2.	Liquid Capping machine (automatic)	PL/EQ/005	--	Syrup filling area	SA engineering (Pakistan)
3.	Liquid Filling machine (Manual)	PL/EQ/006	2 nozzle	Syrup filling area	SA engineering (Pakistan)
4.	Pet Bottle blowing machine	PL/EQ/007	2 nozzle	Bottle blowing area of syrup section	SA engineering (Pakistan)
5.	Manual Drop Capping Machine	PL/EQ/008	01 nozzle	Syrup filling area	Pakistan
6.	Syrup Manufacturing Tank	PL/EQ/017	3000 L	Syrup manufacturing area	Digital Scientific Engineering (Pak)
7.	Syrup storage tank	PL/EQ/018	3000 L	Syrup manufacturing area	Digital Scientific Engineering (Pak)
8.	Liquid Filter Press Assembly	PL/EQ/012	--	Syrup manufacturing area	Digital Scientific Engineering (Pak)

### Equipments in Ointment Section


Sr#	Machine name	Equipment #	Capacity	location	origin
1.	Cream mixer	PSS/EQ/001	200kg	Cream manufacturing area	SA Engineering (PAK)
2.	Cream filling (semi auto)	PSS/EQ/002	25tube/min (variable)	Cream filling area	China

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance	<b>Document No:</b>	GS/QA/DOC/002-02	
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	

3.	Tube filling machine	PSS/EQ/003	25tube/min (variable)	Cream filling area	China
4.	2 nozzle blowing machine	PSS/EQ/004	--	Tube blowing area	Pakistan

### Equipments in General Sachet


Sr#	Machine name	Equipment #	Capacity	location	origin
1.	Double Cone mixer 01	PS/EQ/001	100kg	Powder mixing area (sachet section)	Digital group (pakistan)
2.	Double Cone mixer 02	PS/EQ/005	200kg	Powder mixing area (sachet section)	SA Engineering (PAK)
3.	Sachet filling and sealing machine 01	PS/EQ/003	40/min (variable)	Sachet filling area (sachet section)	China
4.	Dry granulator	PS/EQ/002	200kg/ hour	Powder mixing area (sachet section)	Digital group (pakistan)
5.	Sachet filling and sealing machine 02	PS/EQ/004	35/min (variable)	Sachet filling area (sachet section)	Digital group (Pakistan)
6.	Sachet filling and sealing machine 03	PS/EQ/007	35/min (variable)	Sachet filling area (sachet section)	China

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance	<b>Document No:</b>		GS/QA/DOC/002-02
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	

7.	Sachet filling and sealing machine 04	PS/EQ/008	35/min (variable)	Sachet filling area (sachet section)	US Engineering (Pak)
8.	Sachet filling and sealing machine 05	PS/EQ/009	35/min (variable)	Sachet filling area (sachet section)	US Engineering (Pak)
9.	Sachet filling and sealing machine 06	PS/EQ/010	35/min (variable)	Sachet filling area (sachet section)	China

### Equipments in Dry milk powder Section

Sr#	Machine name	Equipment #	Capacity	location	origin
1.	Double Cone mixer 01	PP/EQ/001	200kg	Dry milk mixing area	US Engineering (pak)
2.	Double Cone Mixer 02	PP/EQ/008	200kg	Dry milk mixing area	US Engineering (pak)
3.	Dry Granulator 01	PP/EQ/002	--	Dry milk mixing area	US Engineering (pak)
4.	Dry Granulator 02	PP/EQ/009	--	Dry milk mixing area	Digital group (Pakistan)
5.	Double Cone Mixer 03	PP/EQ/012	100kg	Dry milk mixing area	Digital group (Pakistan)
6.	Pouch filling machine 01	PP/EQ/003	35/mint	Dry milk filling area	Japan

		<b>GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.</b>			
<b>Title:</b>		<b>Equipment List Of Production</b>			
<b>Department:</b>		Quality Assurance		<b>Document No:</b>	GS/QA/DOC/002-02
<b>Prepared by:</b>		<b>Reviewed by:</b>		<b>Approved by:</b>	
Name: Ali Haider		Name: Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: QA Officer		Designation: Asst. Production Manager		Designation: Managing Director	
Signature & Date:		Signature & Date:		Signature & Date:	

7.	Pouch filling machine 02	PP/EQ/005	25/mint	Dry milk filling area	Pakistan
8.	Can filling & Seaming machine	PP/EQ/004	--	Dry milk filling area	SAGA engineering
9.	Weighing balance	PP/EQ/010	30 kg	Dry milk filling area	Dawn (Pakistan)
10.	Weighing balance	PP/EQ/011	30 kg	Dry milk filling area	Pakistan
11.	Can Blowing Machine	PP/EQ/006	--	Milk Packing Hall	Sadat Engineering (Pak)
12.	Manual Pouch sealing machine	PP/EQ/007	--	Milk packing hall	Pakistan
13.	Manual Tin Seaming Machine	PP/EQ/006	15/mint	Dry milk filling area	Pakistan





# GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.

<b>Title:</b>	Quality control Equipment List		
<b>Department:</b>	Quality Control	<b>Document No:</b>	GS/QC/DOC/001
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>	
Name: Dr. Qamar	Name: Nabila Adil	Name: Dr. Ali Haider	
Designation: QC Officer	Designation: Asst. Production Manager	Designation: QA Officer	
Signature & Date:	Signature & Date:	Signature & Date:	

Sr #	Equipment Name	ID Code	Serial number	Make Model
1.	<i>Analytical Balance</i>	QC/EQ/001	D461640042	SHIMADZU 4X320 G
2.	<i>Moisture Analyzer</i>	QC/EQ/002	D209467104	SHIMADZU MOC63
3.	<i>pH Meter</i>	QC/EQ/003	17050698	Inolab PHS-25CW
4.	<i>Conductivity Meter</i>	QC/EQ/004	-	BANTE DDS-11AW
5.	<i>Magnetic Stirrer with hot plate</i>	QC/EQ/005	--	China
6.	<i>Melting Point Apparatus</i>	QC/EQ/006	--	Supico
7.	<i>Refractometer</i>	QC/EQ/007	--	Hina instruments Lahore
8.	<i>UV Spectrophotometer</i>	QC/EQ/008	AQ1603002	CHINA SS-20
9.	<i>HPLC</i>	QC/EQ/009	C20963751023	SHIMADZU, SPD-10A
10.	<i>Stability Chamber</i>	QC/EQ/010	--	CHINA, 5C-08
11.	<i>Ultrasonic bath</i>	QC/EQ/011	--	CHINA(Pakistan)
12.	<i>Water Bath</i>	QC/EQ/012	71120199	Pakistan
13.	<i>Viscometer</i>	QC/EQ/013	--	CHINA, SS-15
14.	<i>Hardness tester</i>	QC/EQ/014	--	Dawn-Pakistan
15.	<i>Friability tester</i>	QC/EQ/015	--	Dawn-Pakistan
16.	<i>Disintegration apparatus</i>	QC/EQ/016	DT-08	Dawn-Pakistan



# GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd.

<b>Title:</b>	Quality control Equipment List		
<b>Department:</b>	Quality Control	<b>Document No:</b>	GS/QC/DOC/001
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>	
Name: Dr. Qamar	Name: Nabila Adil	Name: Dr. Ali Haider	
Designation: QC Officer	Designation: Asst. Production Manager	Designation: QA Officer	
Signature & Date:	Signature & Date:	Signature & Date:	

17.	<i>Dissolution apparatus</i>	QC/EQ/017	DIS-08	Dawn-Pakistan
18.	<i>Leakage tester</i>	QC/EQ/018	LT-07	Dawn-Pakistan
19.	<i>Polarimeter</i>	QC/EQ/019	--	Dawn-Pakistan
20.	<i>Muffle furnace</i>	QC/EQ/020	--	Ney Vulcan
21.	<i>Electric stirrer</i>	QC/EQ/021	--	China
22.	<i>Refrigerator</i>	QC/EQ/022	--	PELL
23.	<i>Mixer</i>	QC/EQ/023	--	-
24.	<i>Vernier calipers</i>	QC/EQ/024	--	China
25.	<i>Centrifuge</i>	QC/EQ/025	--	China
26.	<i>Colony counter</i>	MB/EQ/001	--	China
27.	<i>Autoclave</i>	MB/EQ/002	--	CHINA
28.	<i>Laminar flow hood</i>	MB/EQ/003	--	China
29.	<i>Hot air oven</i>	MB/EQ/004	44422	SANFA DHG-9202
30.	<i>Incubator</i>	MB/EQ/005	--	CHINA BJPX-450



**ANNEXURE-I**

**PROJECT FLOW PROCESS**



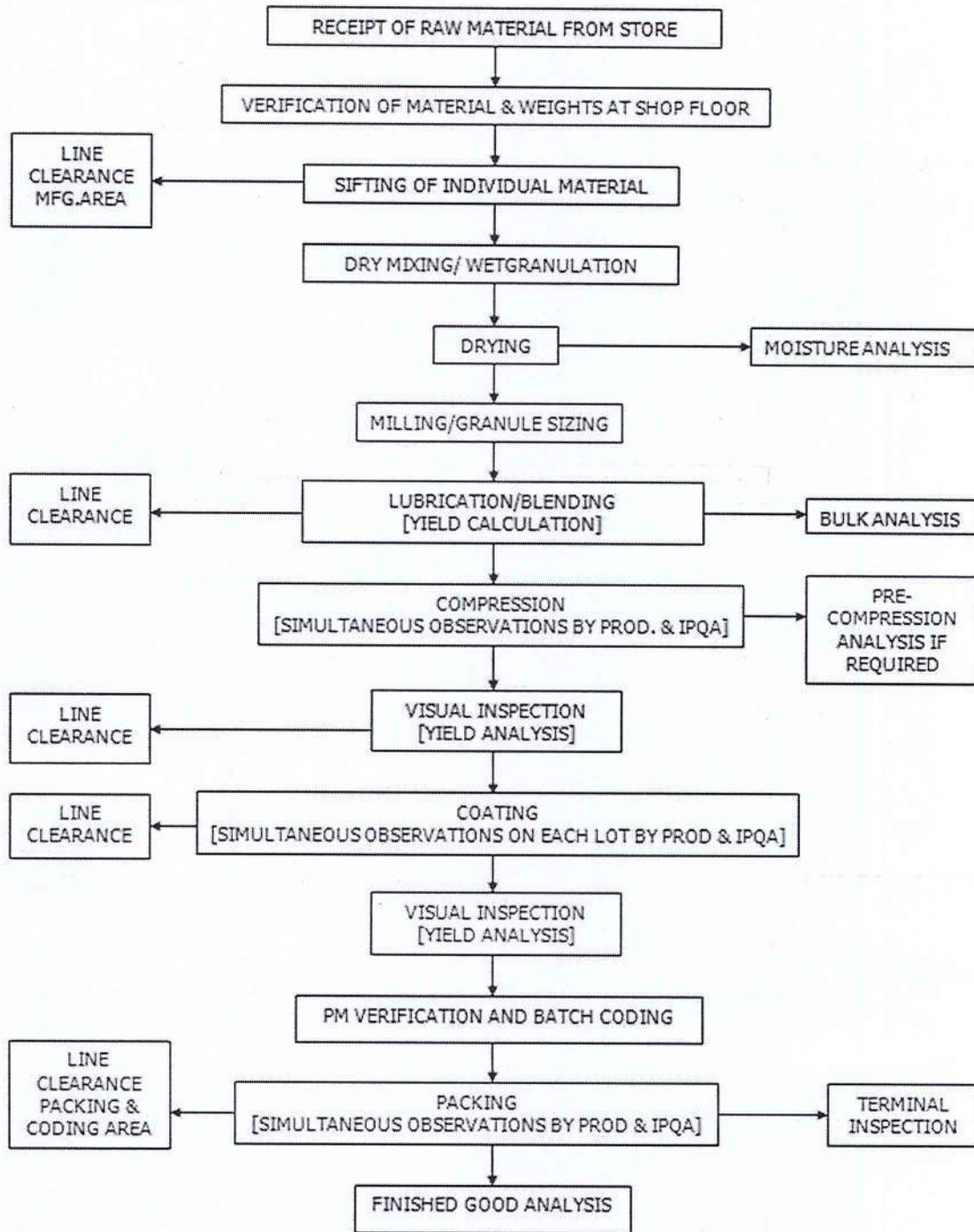
# Flow sheet of tablet manufacturing

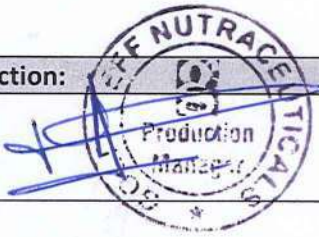
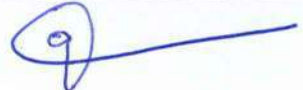

## Production Department

Document No: IF-03

Issue No: 01

Issue Date: 01/11/2021



Production:	Quality control:	Quality assurance:
		



**GOLDSHEFF**  
NUTRACEUTICALS (Pvt.) Ltd.  
ISO 9001 - ISO14001 CERTIFIED COMPANY

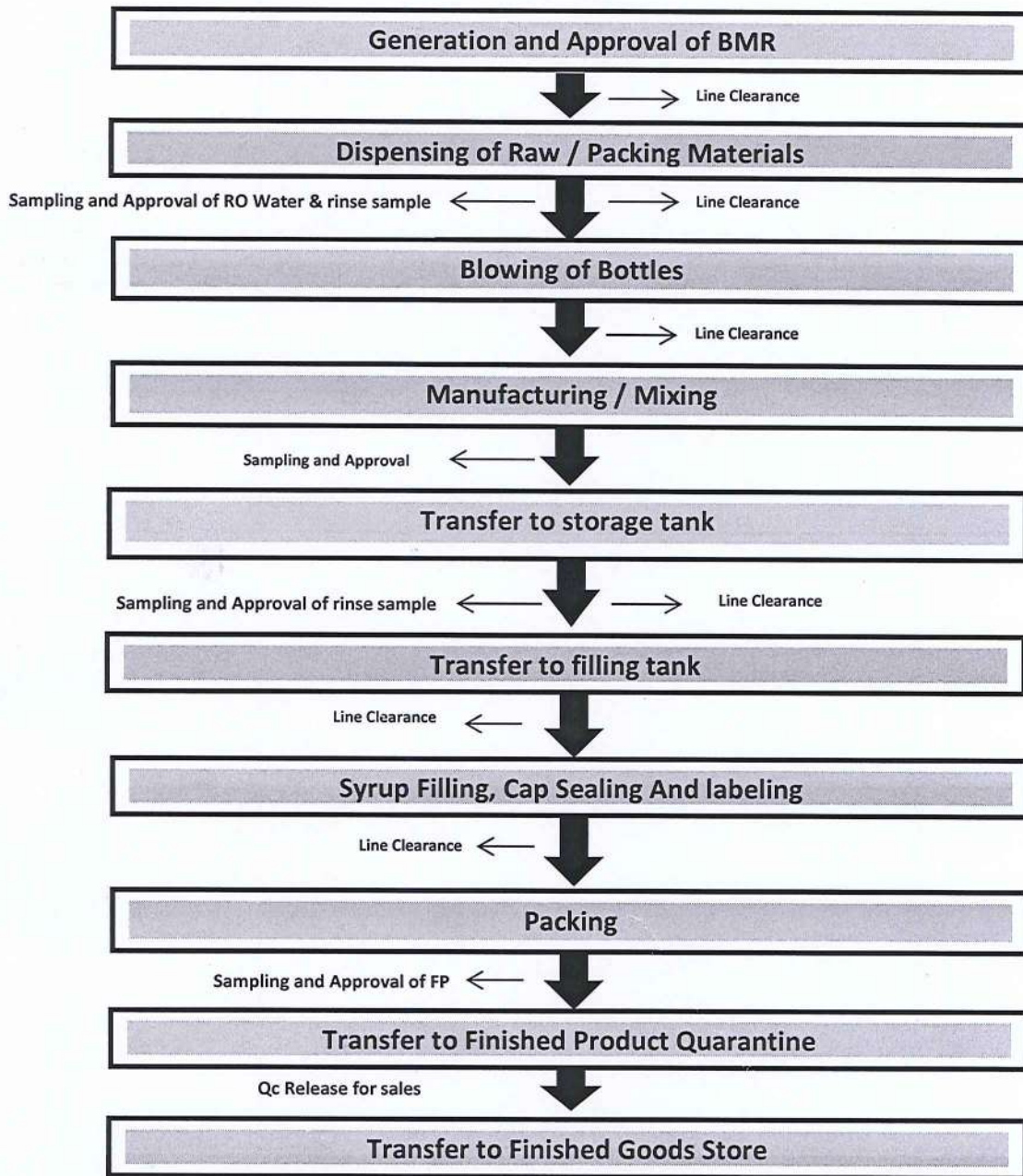
# Flow sheet of Syrup Manufacturing



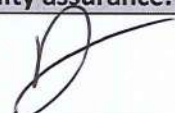
Production Department

Document No: IF-06

Issue No: 01

Issue Date: 01/11/2021



Production:	Quality control:	Quality assurance:
		

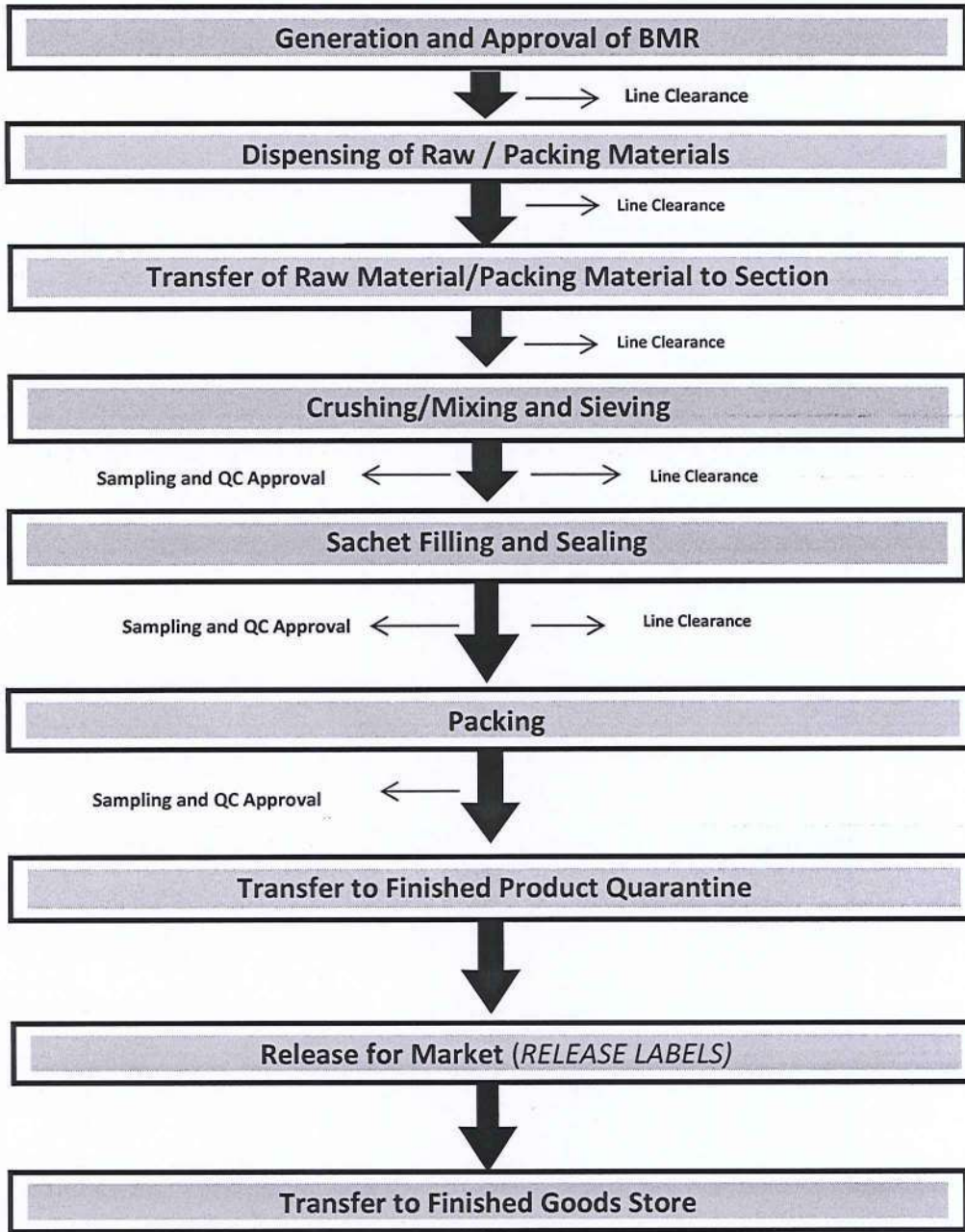
## Flow sheet of sachet Manufacturing

### Production Department

Document No: IF-04

Issue No: 01

Issue Date: 01/11/2021



Production:	Quality control:	Quality assurance:





**GOLDSHEFF**  
NUTRACEUTICALS (Pvt.) Ltd.  
ISO 9001 - ISO 14001 CERTIFIED COMPANY

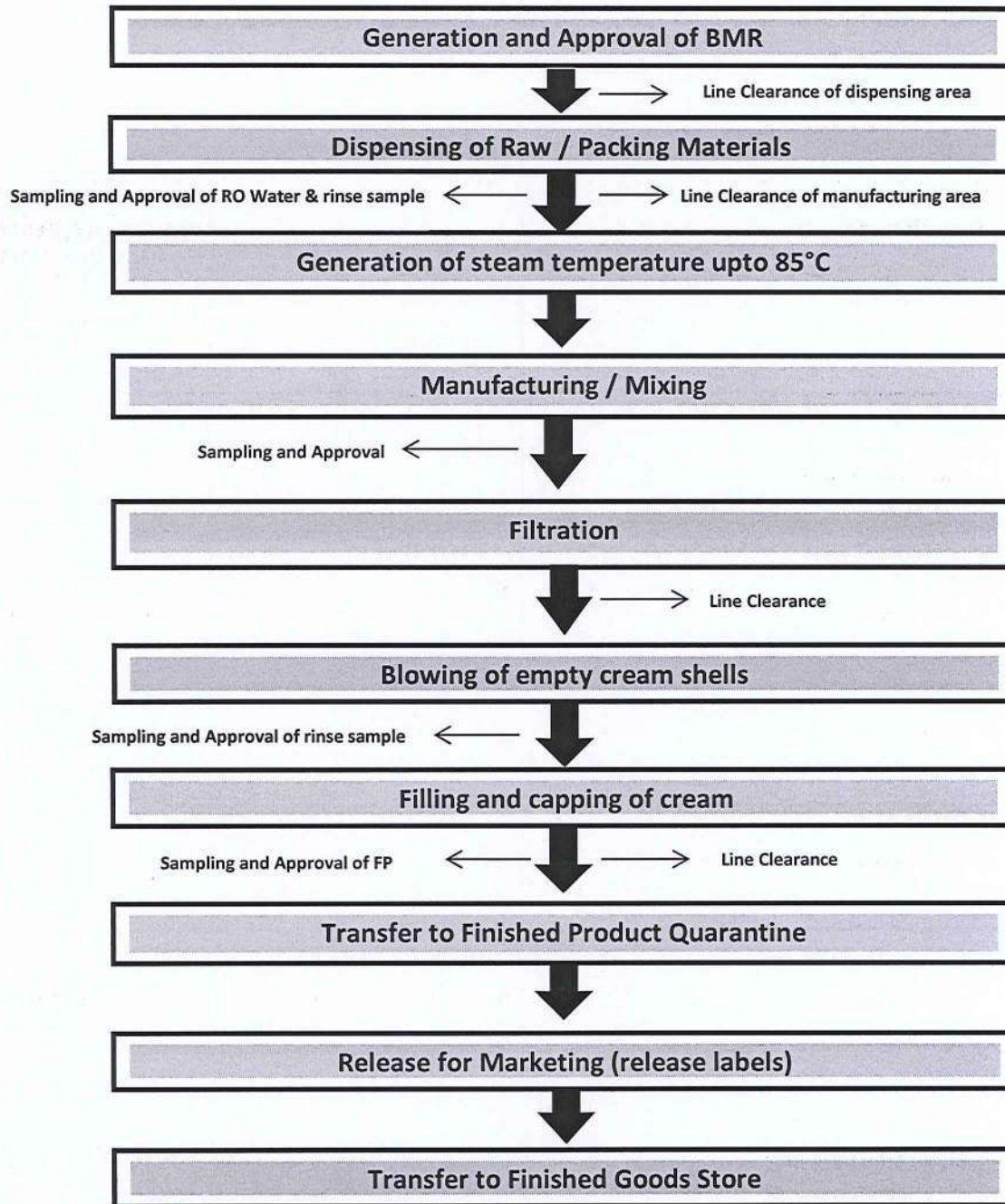
# Flow sheet of ointment Manufacturing

Production Department

Document No: IF-05

Issue No: 01

Issue Date: 01/11/2021



Production:	Quality control:	Quality assurance:





**GOLDSHEFF**  
NUTRACEUTICALS (Pvt.) Ltd.  
ISO 9001 - ISO14001 CERTIFIED COMPANY

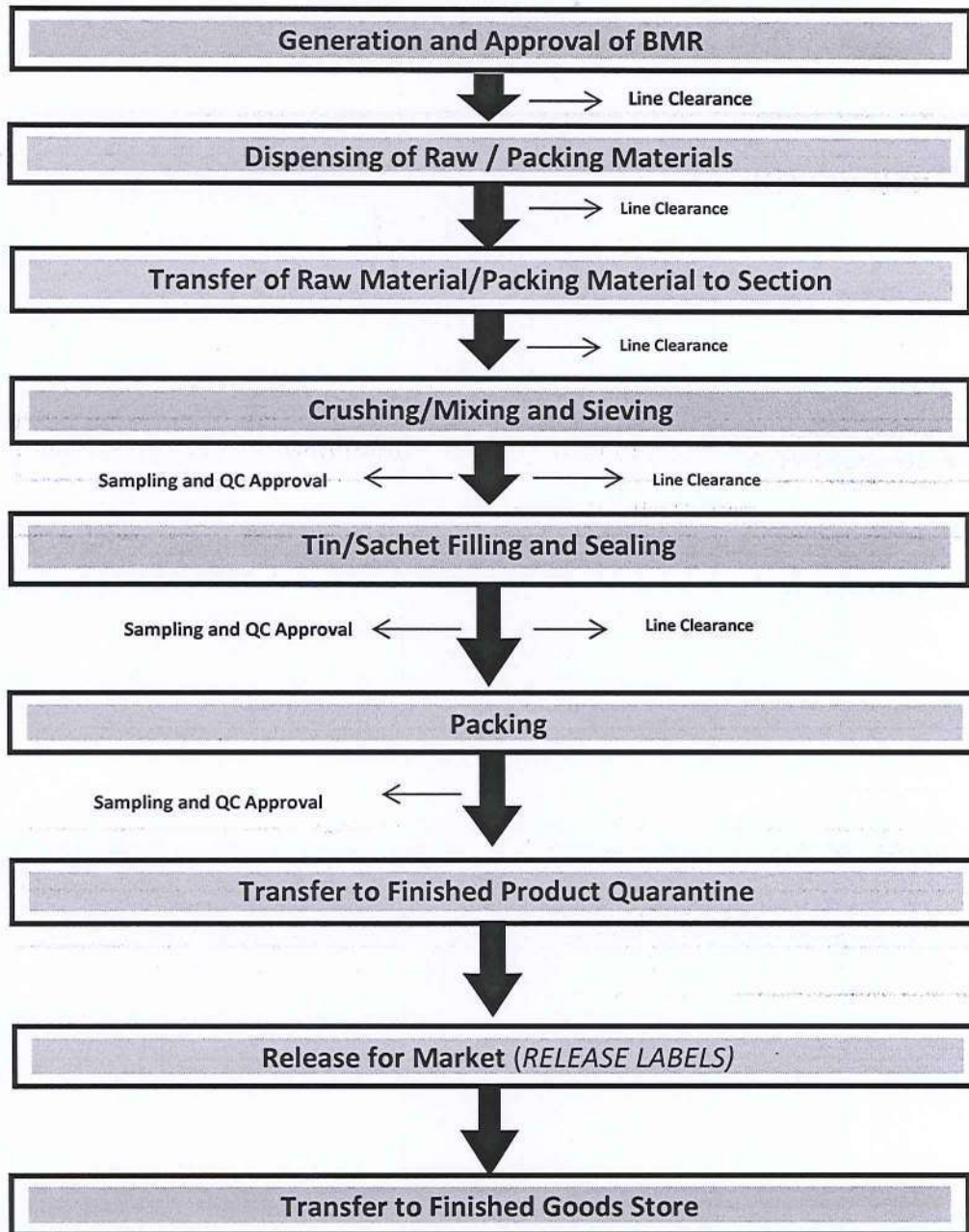
# Flow sheet of dry milk powder Manufacturing

Production Department

Document No: IF-07

Issue No: 01

Issue Date: 01/11/2022



Production:	Quality control:	Quality assurance:

**ANNEXURE-J**

**LICENSE FROM DRUG  
REGULATORY AUTHORITY**

[See rule 7(16)]


PROVISIONAL CERTIFICATE FOR ENLISTMENT AS MANUFACTURER

E. No. 00353

M/s. Gold Sheff Internatioal Nutraceutical, located at 537-F, Sunder Industrial Estate (PIE), Raiwind Road, Lahore is hereby enlisted in the enlistment register as manufacturer (Tablet, Oral Liquid, Sachet & Cream/Ointment) by the Authority [approved in 15<sup>th</sup> Meeting of EEC and F.No.1-93/2015-DDC (H&OTC)] subject to the following conditions namely:-

- a. The manufacturer shall be responsible for the quality, efficacy and safety of all the therapeutic goods manufactured and sold by him.
- b. He shall abide by all the provisions of the Drug Regulatory Authority of Pakistan Act, 2012 (XXI of 2012) except those exempted under the said Act.
- c. He shall immediately recall the defected therapeutic goods within 15 days after intimation to him and report the compliance to the Authority.
- d. He shall be responsible to withdraw the unsafe therapeutic goods from the market if so declared by the Authority. He shall also report adverse affect reports, (if any), to the Authority within 15 days period and notify focal person for such reporting.
- e. Any other relevant condition imposed by the Authority in future.
- f. This certificate shall not be valid after the date notified by the Authority through official gazette.
- g. Certificate of enlistment shall be surrendered to the Authority within 7 days if it is suspended, revoked, becomes invalid or its holder winds up his business.

Dated: 24-10-2016

  
Abdul Sattar Sohrani  
Deputy Director  
Division of Health and OTC Products  
Drug Regulatory Authority of  
Pakistan

24/10/16

**ANNEXURE-K**

**RELEVANT GOVERNMENT  
APPROVALS**



SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN

Company Registration Office, Lahore

**CERTIFICATE OF INCORPORATION ON CHANGE OF NAME**

[Under section 13 of the Companies Act, 2017 (XIX of 2017)]

Corporate Universal Identification No. 0080813

I hereby certify that pursuant to the provisions of Section 13 of the Companies Act, 2017 (XIX of 2017), the name of

**“GOLDSHEFF HF PHYTO PHARMA (PRIVATE) LIMITED”**  
has been changed to

**“GOLDSHEFF NUTRACEUTICALS (PRIVATE) LIMITED”**

and that the said company has been duly incorporated as a company limited by shares under the provisions of the said Act.

This change is subject to the condition that for a period of 90 days from the date of issue of this certificate, the company shall continue to mention its former name along with its new name on the outside of every office or place in which its business is carried on and in every document or notice referred to in clauses (a) to (d) of section 22 of the Companies Act, 2017.

Given under my hand at Lahore this 7<sup>th</sup> day of January, Two Thousand and Nineteen.

Fee Rs.2,500/-



*N. H. Naqvi*  
(SYED IFTIKHAR UL HASAN NAQVI)  
Additional Registrar of Companies

No. ARL/16378 Dated: 7/1/2019

THE COMPANIES ACT, 2017  
 THE COMPANIES (GENERAL PROVISIONS AND FORMS) REGULATIONS, 2018  
 [Section 197 and Regulations 4 and 20]  
 PARTICULARS OF DIRECTORS AND OFFICERS, INCLUDING THE CHIEF EXECUTIVE,  
 SECRETARY, CHIEF FINANCIAL OFFICER, AUDITORS AND LEGAL ADVISER OR OF  
 ANY CHANGE THEREIN



THIS IS DIGITAL CERTIFIED COPY AND NEEDS NO STAMP/SIGNATURE, ETC ISSUED DATE: 15-07-2024

PART-I

1. CUIIN (Incorporation Number)   
 2. Name of Company   
 3. Fee Payment Details  
 3.1 Challan Number  1.3.2 Amount

PART-II

Particulars\*

1. New Appointment/Election

Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)	Nature of directorship (nominee/independent/additional/other) (j)
NAUMAN JAVED HASNAIN RASHID CHARTERED ACCOUNTANT			OFFICE NO 108- 14/9-1ST FLOOR EDEN CENTER 43- JAIL ROAD LAKHORE	Auditor	Pakistan		28/10/2023	Re- Appointment /	

2. Ceasing of Officer/Retirement/Resignation


Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)	Nature of directorship (nominee/independent/additional/other) (j)

2.3. Any other change in particulars relating to columns (a) to (g) above

Present Name in Full (a)	NIC No. or Passport No. in case of Foreign National (b)	Father / Husband Name (c)	Usual Residential Address (d)	Designation (e)	Nationality** (f)	Business Occupation** (if any) (g)	Date of Present Appointment or Change (h)	Mode of Appointment / change / any other remarks (i)	Nature of directorship (nominee/independent/additional/other) (j)

\* In the case of a firm, the full name, address and above mentioned particulars of each partner, and the date on which each became a partner.  
 \*\* In case the nationality is not the nationality of origin, provide the nationality of origin as well.

**ANNEXURE-L**  
**HEALTH AND SAFETY POLICY**

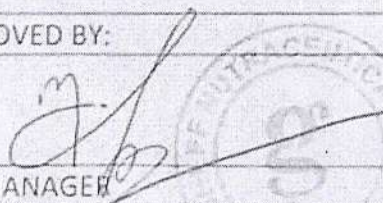
GOLDSHEFF		GOLDSHEFF NUTRACEUTICALS (Pvt.) Ltd	
Title:		QEHS Policy	
Department:	Production	Document No:	GS/PD/DOC/002-01
Issuance date:	19-10-2019	Revision No.	00
Prepared by:		Reviewed by:	
Name: Dr. Nabila Adil		Name: Bilal Ahmed Siddiqui	
Designation: Production Officer		Designation: Managing Director	
Signature & Date:  19/10/2019		Signature & Date:	

## QUALITY, ENVIRONMENT, HEALTH AND SAFTY POLICY

Goldsheff Nutraceutical has a strong commitment to produce nutraceutical products of the highest quality while operating in a safe and environment-friendly manner.

To fulfill the above commitment, the organization;

1. Follows the standards of quality by using process approach and appropriate systems of production, storage, distribution, quality control and quality assurance.
2. Integrates quality, health & safety and environmental management system into business operations to enhance customer satisfaction, prevent health & safety risks and promote protection of environment including prevention of pollution.
3. Adopts efficient techniques to manage (eliminate/reduce) health, safety and environmental risks involved in various operations by sustainable use of resources.
4. Promotes health, safety and environmental awareness among its employees with their consultation and participation.
5. Promotes health, safety and environmental awareness among external providers (suppliers, contractors and sub-contractors) and affiliated parties for compliance of the system.
6. Complies with the applicable national and international laws, standards and requirements of quality, health, safety and environment and safeguards the interest of all the stakeholders by acting in a responsible manner.
7. Makes continual efforts by establishing objectives to enhance quality, environment, and health & safety systems by improving customer satisfaction, preventing incidents (near-misses, injury, ill-health & accidents), protecting environment including prevention of pollution, team work and human resource development.

APPROVED BY:

EHS MANAGER

**ANNEXURE-M**

**STAKEHOLDER' CONSULTATION  
FORMS**

**PUBLIC CONSULTATION / STAKEHOLDER PARTICIPATION REGARDING  
EIA OF "CONSTRUCTION OF PHARMACEUTICAL UNIT"**

Name: Fahad Shaif  
 Residence: Lahore  
 CNIC: 35202-4553549-9  
 Gender:  Male  Female  
 Qualification: B.S  
 Profession: Teacher

	Strongly Agree	Agree	No Comments	Disagree	Strongly Disagree
Are you in favor of project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project increase the importance of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project help to improve the living standards of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the environment of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Level of satisfaction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the plant species of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the project cause any type of pollution in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Signature of Interviewed

Fahad Shaif

Signature of Interviewer

[Signature]

**PUBLIC CONSULTATION / STAKEHOLDER PARTICIPATION REGARDING  
EIA OF "CONSTRUCTION OF PHARMACEUTICAL UNIT"**

Name: Fateh Mohammad  
 Residence: Rainwind Road  
 CNIC: 35202-67503018-1  
 Gender:  Male  Female  
 Qualification: Matric  
 Profession: Shop keeper

	Strongly Agree	Agree	No Comments	Disagree	Strongly Disagree
Are you in favor of project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project increase the importance of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project help to improve the living standards of the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the environment of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Level of satisfaction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the plant species of the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Will the project cause any type of pollution in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Signature of Interviewed

Fateh

Signature of Interviewer

[Signature]

**PUBLIC CONSULTATION / STAKEHOLDER PARTICIPATION REGARDING  
EIA OF "CONSTRUCTION OF PHARMACEUTICAL UNIT"**

Name: Ali Raza

Residence: Lahore

CNIC: 35204-0341744-3

Gender:  Male  Female

Qualification: Middle Pass

Profession: worker

	Strongly Agree	Agree	No Comments	Disagree	Strongly Disagree
Are you in favor of project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project increase the importance of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project help to improve the living standards of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the environment of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Level of satisfaction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the plant species of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the project cause any type of pollution in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Signature of Interviewed

Ali Raza

Signature of Interviewer


Ali

**PUBLIC CONSULTATION / STAKEHOLDER PARTICIPATION REGARDING  
EIA OF "CONSTRUCTION OF PHARMACEUTICAL UNIT"**

Name: Muhammad Zaid  
 Residence: Rainind Road  
 CNIC: 36601 99045205  
 Gender:  Male  Female  
 Qualification: MBA  
 Profession: Banker

	Strongly Agree	Agree	No Comments	Disagree	Strongly Disagree
Are you in favor of project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project increase the importance of the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project help to improve the living standards of the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the environment of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Level of satisfaction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Will the project affect the plant species of the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the project cause any type of pollution in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Signature of Interviewed



Signature of Interviewer

