F-243(EIA)-23

EIA/2023

JDW Group

Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD)

Machi Goth, Sadiqabad, Rahim Yar Khan

Proponent

Mr. Burhan Ahmed Khan Lodhi

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LIST OF ABBREVIATIONS

Approx.	Approximately
°C	Degree Celsius
dB (A)	A weighted Decibel Scale
EIA	Environmental Impact Assessment
EMMP	Environmental Management and Monitoring Plan
EMP	Environmental Management Program
Engr.	Engineer
WWTP	Effluent treatment plant
EPA	Environmental Protection Agency
ESPAK	Environmental Services Pakistan
M.Phil	Masters of Philosophy
Ph.D	Doctor of Philosophy
Km	Kilometer
Ltd.	Limited
m^3/h	Cubic Meter per Hour
PEQS	Punjab Environmental Quality Standards
No.	Number
NOC	No Objection Certificate
PEPA, 1997	Pakistan Environmental Protection Act, 1997
PEPA, 2012	Punjab Environmental Protection (Amendment) Act, 2012
PKR	Pakistani Rupees
PM	Particulate Matter
PPEs	Personal Protective Equipments
Pvt.	Private
SOPs	Standard Operating Procedures
TCD	Tons crushing per Days
WAPDA	Water and Power Development Authority

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Executive Summary

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EXECUTIVE SUMMARY

1. Title and location of Project

This executive summary of Environmental Impact Assessment (EIA) Report presents a brief account of foreseeable environmental and social impacts likely to emanate from the project namely ***Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD) located*** at Machi Goth, Sadiqabad, District Rahim Yar Khan. This project involves the production of sugar having 22000 TCD capacity to fulfill the market demands. JDW Sugar Mills Limited was incorporated in Pakistan on 31 May 1990 as a private limited company under the Companies Ordinance, 1984 (copy of Certificate of Incorporation and Regularization letter is attached as Annex-III) and was subsequently converted into a public limited company on 24 August 1991. The principal activity of the Company is production and sale of crystalline sugar, electricity and managing corporate farms.

The report describes the various actual and potential environmental impacts pertaining to both phases of the project, i.e. construction phase and the operation phase with reference to their extent and magnitude. Environmental Impact Assessment (EIA) study of the project has been conducted in accordance with the **Punjab Environmental Protection (Amendment) Act 2012** and **The Punjab Environmental Protection (Review of Initial Environmental Examination/ Environmental Impact Assessment) Regulations, 2022**.

Screening

The said project falls in **Schedule II** ***Category B (3) of the Regulations i.e., "Sugar Mills and Distilleries"***. It requires an EIA Study. Thus, an EIA Study has been conducted and report is being prepared for submission of application in EPA Punjab to obtain Environmental Approval/NOC. The process for conducting an environmental assessment and the results of EIA is described in this document.

A brief outline of Project including name of Proponent and organization preparing report

Project Name	*Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD)*
Location	Machi Goth, Sadiqabad, District Rahim Yar Khan
Proponent Name	Mr. Burhan Ahmed Khan Lodhi
Project Cost	Approx. PKR 3.2 Billion
Environmental Budget	Approx. PKR 10 Million
Total Area	2178000 Sft (400 kanal)
Consultant Name	Smart Solutions
Products	Sugar Grade –A
Product Capacity	22,000 TCD

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No. of Boilers	5 for mill process and 1 for Power generation
Fuel of Boilers	Bagasse
Source of Power	Co-Generation plant

5. The major impacts and recommended mitigation measures

Following impacts are likely to occur during constructional and operational phase of aforesaid project:

5.2 Construction Phase

Anticipated impacts associated with the construction phase included noise (machine noise and vehicular noise), air emissions from earthwork and construction machinery and vehicles, and soil contamination due to leakage from or accidents of the construction or transportation vehicles or during on-site refueling, solid waste from construction activities, municipal water and safety of the workers and employment conflicts as the possible adverse environmental and social impacts. Therefore, construction related impacts are not expected to extend to the community.

Mitigation measures recommended to be adopted during construction phase includes; running the machines/vehicles on good quality fuels, good working order ensuring regular maintenance, tuning and servicing, such as mufflers and silencers, etc. Water suppression and covered transportation and storage of the construction materials and slow driving on unpaved roads were adopted to control dust emission. Solid waste of construction activities was used for flooring, while the remaining solid waste will be managed as per practices in the area.

For community safety, irrelevant persons will not be allowed inside the facility. Safety of the workers will be ensured by adopting SOPs for all jobs, training the workers to follow SOPs, discouraging any careless attitude of workers and providing the workers with and encouraging them to use PPEs.

5.3 Operational Phase

The wastewater treated through Effluent treatment plant that have adequate capacity before disposal in sewerage system (copy of Effluent discharge bill is attached as Annex-V). The cyclones are installed to control air pollution from the boilers. Ash collected from the cyclones is transferred to Ash collection point and sent to contractor for reuse in road construction (copy of contract for disposal of boiler ash is attached as Annex-VI). Molasses produced from the process are stored in steel tank and sale to contractor because that are used as raw material in distillery plants for ethanol production (copy of contract is attached herewith as Annex-VII).

Sugarcane Bagasse from process produced used as fuel for the boilers. Whereas, mud produced from mill house sale to contractor for reuse as bio fertilizer and as ingredient in cattle feed (copy of Contract is attached as Annex-VIII). Proper ventilation of building has been ensured and use of dust masks by workers will be adopted as a mitigation measure for safety of the workers.

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Recyclable waste including (PET bottles, PVC & PET sleeves, cardboard) sold out to venders. Domestic waste handed over to garbage handlers. Machinery will be regularly serviced and tuned to mitigate noise at source, noise barriers block noise propagation and receptors are protected by the use of PPEs. An Emergency Response Plan (ERP) is also be in place and the workers are trained and guided about it.

5.4 Proposed Monitoring

During construction, ambient air quality for dust level in particular, vehicle and equipment exhaust, noise level, solid waste management and soil contamination, community and workers' safety (visual) need to be monitored on regular basis.

During operation, ambient air quality, noise level, solid waste management, soil contamination, and community & workers safety need to be monitored as per guidelines of EPA. Monitoring Plan has been included in **Chapter 05**.

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VERIFICATION OF THE EIA REPORT

It is accordingly recommended that Environmental Approval for the project should be issued by the Punjab Environmental Protection Agency, subject to payment of the requisite scrutiny fee by the Proponent of the Project.

The main key persons involved in finalizing EIA report are following:

Prepared By

Dr. Ambreen Lateef
PhD Env. Sciences
(Lead Environment Professional)

Verified By

Malik Shaukat Hayat
M.Phil Env. Sciences/MSc Chemistry
(Managing Director)

I have reviewed the project EIA report and found the contents to be valid and true to the best of knowledge and belief.

Burhan Ahmed Khan Lodhi
Proponent
JDW Sugar Mill Limited Unit II, RYK

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Chapter 1

Introduction

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1 INTRODUCTION

1.1 Purpose of the Report

For any development project to be initiated in the province of Punjab, it is mandatory to obtain Environmental Approval from EPA Punjab under **Section-12** of the ***Punjab Environmental Protection (Amendment) Act, 2012*** by filing an Initial Environmental Examination (IEE) or Environmental Impact Assessment (EIA) before EPA Punjab, as may be defined in ***the Punjab Environmental Protection (Review of Initial Environmental Examination/Environmental Impact Assessment) Regulations, 2022***.This Report presents the Environmental Impact Assessment (EIA) Study of JDW Sugar Mill Limited Unit II (22000 TCD). For this purpose, the proponent engaged environmental consultants; **Smart Solutions** to conduct EIA Study of aforesaid project. The purpose of this study is to identify the environmental baseline i.e. physical, biological and socio-economic/cultural conditions and assess all possible impacts arising during the construction and operation phase of project and to find out appropriate measures for their mitigation, to either eliminate those impacts or to bring them to acceptable level and formulation of Environmental Management Plan (EMP) for implementation of the project in environment friendly manner.

This EIA Report is prepared by critical examining environmental factors which might be affected due to said project implementation. This report provides the basis for a determination of degree of environmental impacts of project. This report provides relevant information, as required under the officially approved format, to help the decision makers i.e. EPA Punjab in deciding the instant application for grant of Environmental Approval/NOC.

1.2 Identification of the Project & Proponent

The details of proponent of aforesaid project are given below:

Table 1: Details of Proponent

Details of Proponent	
Name & Address	**Mr. Burhan Ahmed Khan Lodhi**
Contact No.	

1.3 Consultant's Details

The proponent of said project engaged ***M/s Smart Solutions*** to carry out the EIA Study of aforesaid project in accordance with EPA guidelines. For this purpose, the details of internal and external experts working on this assignment are given below in Table-2.

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Table 2: Consultant Details

Consultant Details	
Consultant	Smart Solutions
Address	Plot # 8(G) Ground Floor Choudhry Arcade Plaza, New Civil Lines, Faisalabad
Contact No.	041-2606188

To prepare an EIA Report of the respective project the company engaged the following experts. The details of the experts are given below in Table-3.

Table 3: List of Experts

Sr. #	Name	Qualification
Team Leader		
i.	Malik Shaukat Hayat	M.Phil Environmental Sciences/ M.Sc Chemistry
ii.	Dr. Ambreen Lateef	Ph.D Environmental Sciences
Environmental Scientist		
ii.	Ms. Kiran Irshad	M.Phil. Environmental Sciences
Environmental Engineer		
iii.	Engr. Fareha Daud	B.Sc. Environmental Engineering
iv.	Engr. Hamna Shafique	B.Sc. Environmental Engineering
v.	Engr. Tehreem Akhtar	B.Sc. Environmental Engineering
vi.	Engr. Muhammad Umer	B.Sc. Environmental Engineering
vii	Engr. Salman Ahmed	B.Sc. Environmental Engineering

1.4 Brief description of Nature Size & Project Location

The aforesaid project under study is titled as "***Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD)***".

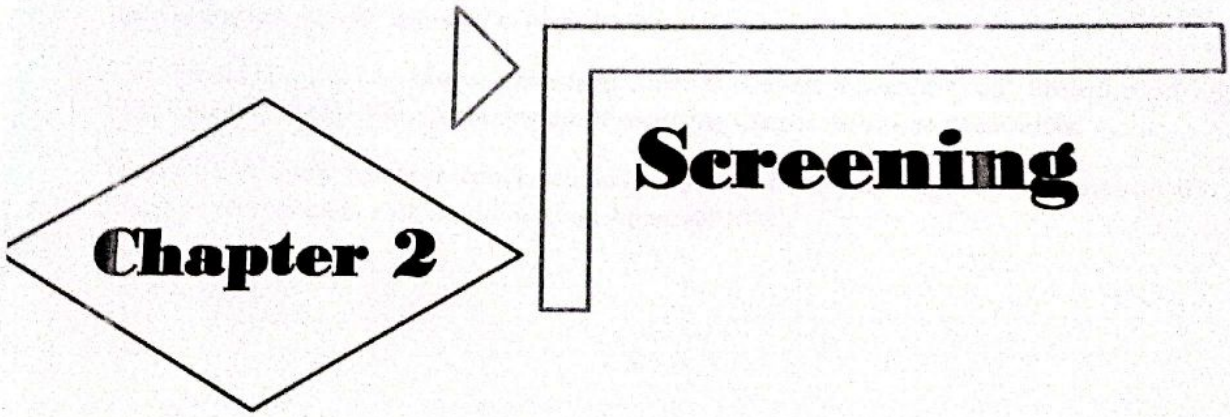
The aforesaid project is located at Machi Goth, Sadiqabad, District Rahim Yar Khan. The coordinates of site are; ***28°14'36.2" North*** and ***70°02'34.4" East.*** The location of the aforesaid project is:

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Figure 1: Project Location

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2 SCREENING

For the prediction and mitigation of impacts associated with project implementation at an early stage of project development, it is pre-requisite under the environmental laws to undertake Initial Environmental Examination (IEE) and Environmental Impact Assessment (EIA) Study as the case may be. Based on its nature, size and related impacts, the project under consideration has been categorized for EIA Study as stated in ***Regulation 03 of Statutory Notification (S.R.O No. O1/EPA/EIA/MISC/21/4214).*** As per the statutory notification of The Punjab Environmental Protection (Review of Initial Environmental Examination and Environment Impact Assessment) Regulations, 2022 made under Section 12 of Punjab Environmental Protection Act, 1997 (Amended 2012), which is reproduced as under;

"No proponent of a project shall commence construction or operation unless he has filed with the Government Agency designated by Federal Environmental Protection Agency or Provincial Environmental Protection Agencies, as the case may be or where the project is likely to cause an adverse environmental effect an Environmental Impact Assessment (EIA) and has obtained from the Government Agency approval in respect thereof."

The aforesaid project i.e., ***"Sugar processing Mill"*** falls under Schedule II i.e., Project requiring EIA, **Category B (3); *Manufacturing and Processing -Sugar Mills and Distilleries.***

Thus, an EIA Study has been conducted and report has been prepared for submission in EPA Punjab as prescribed to seek Environmental Approval/NOC.

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Chapter 3

Scoping

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3 SCOPING

3.1 Spatial and temporal boundaries of Environmental Assessment

The said project involves the production of sugar and installed by adopting proper mitigation measures to avoid disturbance to local environment. All the anticipated impacts associated with project are mitigated properly by adopting latest technologies. No environmental sensitive area is present within safe distance that could be impacted due to current project installation.



Figure 2: Project site

3.2 Important issues and concerns raised during consultation

During consultation it was observed that maximum of people was in favor of project and following issues and concerns were raised. In chapter 10 Stakeholder Consultation it is mentioned in detail.

During survey following concerns of the local community, Government Departments and Environmental Practitioners and experts were noted:

- Locals should be preferred for the job opportunities.
- Wastewater should be treated and dispose off properly
- Solid waste should be managed effectively by adopting the standard practices of the area.
- Cleanliness of the area should be ensured.
- An effective EMMP should be designed and enforced with true spirit.
- Health of the workers should be ensured.
- Plantation should be carried out at extensive scale.

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- Noisy activities should be confined.
- Indigenous tress around the facility should be planted to control air pollution.
- Tree cutting should be avoided to the extent possible.

3.3 Significant impacts and factors to be determined

Main impacts and factors to be determined are

- Job opportunities for locals
- Tree plantation at designated green areas
- Occupational Health and safety
- Emergency preparedness
- Site Security
- Traffic Management
- Hygiene management
- Control Air emissions
- Confined noisy activities
- Resource conservation
- Excessive water consumption
- Energy efficient techniques must be adopted
- Proper site restoration after construction

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Chapter 4

Consideration of Alternatives

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4 CONSIDERATION OF ALTERNATIVES

4.1 Site Alternative their selection and rejection criteria

No project site alternative was considered for the Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD) as the project site is owned by proponent. Hence, no site alternatives are considered for this project. The selected site is suitable for the following reasons:

- The site is owned by JDW Sugar Mills Limited and there is no dispute associate with the landownership
- The site is located at a suitable distance from community.
- The site is accessible through main roads and infrastructure of that area is fully developed.

Keeping in view these requirements and the availability of land required for the instant extension, this site is best suited for the construction of aforementioned Unit. It is envisaged that, there is no protected or environmentally sensitive area present in the vicinity of the project area that could be impacted due to the establishment of the said project. Accordingly, the selected site is ideally suited for the development of the industrial unit as the site is surrounded by various industrial units and is in industrial estate.

4.2 Design/technology alternatives, their selection and rejection criteria

For current project state of art technology has been selected to minimize emissions and ensure environmental friendly operation. Proponent is doing heavy investment for this project so latest/state of art technology will be preferred to ensure good quality products.

4.3 Environmental Alternatives, their selection and rejection criteria

After completion of construction, proper landscaping will be done. Solid waste and wastewater will be handled properly in environment friendly manner. Moreover, the proponent is very concerned and conscious about the quality and equally about the environmental protection and resource conservation. Proper tree plantation will be done at designated green areas after completion of construction. Latest and energy efficient machinery will be installed.

4.4 Economic Alternatives, their selection and rejection criteria

- WWTP of adequate capacity and efficiency is already installed and working at said project.
- Tree plantation will be done that will reduce temperature of the area and also act as noise barrier.
- Building design will be such that maximum use of day light and LED lights will be installed to minimize electricity consumption.
- Currently selected technology and design is economically efficient.

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Chapter 5

Description of Project

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5 DESCRIPTION OF THE PROJECT

5.1 General

This section covers the project comprehensively. It holds salient features including; location, project site layout, objectives, process employed, cost and magnitude of operation, etc.

5.1 Project Objective

The objective of aforesaid project i.e., Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD) is the production of A- Grade Sugar to meet market demand. The project encompasses modern state-of-the-art unit with the objective of initiating, producing and market safe efficacious, cost effective and superior quality products to improve the environment and well-being of the community. The above-said project provides customized and quality products to cater the needs of sugar by taking into consideration the best ways to reduce pollution and safeguarding the environment. The project will have following advantages:

- To produce sugar to meet increasing demand of market.
- To provide additional income and gainful employment to local people.
- Socio-economic up-lift of JDW Sugar Mills Limited and the local community through direct job placements and indirect business opportunities.
- To provide Products for export to other countries hence gaining the foreign exchange for the country.
- For creation of new job opportunities and promoting income prospects for those engaged in the allied activities associated with operation of project is considered as indirect objectives of the project.

5.2 Project Background/Introduction

JDW Sugar Mills Limited was incorporated in Pakistan on 31 May 1990 as a private limited company under the Companies Ordinance, 1984 and was subsequently converted into a public limited company on 24 August 1991 (copy of Certificate is attached as Annex-III). The principal activity of the Company is production and sale of crystalline sugar, electricity and managing corporate farms.

JDW Group is the progressive industrial house of the country. Sugar manufacturing is the core business of the Group and is also renowned for support of innovative farming techniques which augment the core business. The Group takes immense pride in social responsibility activities (social mobilization, women enterprise development, support to technical and primary education, micro credit for the poor, infrastructure development, livestock development etc.) all aimed at ameliorating social and economic conditions of the poor people in rural areas.

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The Sugar Division comprises of three sugar mills Units, JDW Unit-I, JDW Unit-II and JDW Unit-III in the districts of Rahim Yar Khan, Punjab and Ghotki, Sindh.

JDW Unit-II (formerly United Sugar Mills Limited) was acquired by JDWSML in November 2005 and after four years successful operations this was merged into JDWSML w.e.f. October 1, 2008. USML was incorporated in Pakistan on February 5, 1970 and listed on Karachi Stock Exchange until 14 September 2008 when this was got de-listed. JDW Unit-II is located near Sadiqabad at distance of 45 Kms from JDW Unit-I in District Rahim Yar Khan.

JDW is also managing Sugarcane Corporate Farms over the area of 24,000 Acres in the Provinces of Punjab & Sindh. By using knowledge, experience together with modern tools and machinery and distinctive agronomic strategies, JDW has been able to build highly efficient and eco-friendly farms with higher yields. Company's unique farming techniques have also led to the capacity building of existing farmers thereby resulting in improved and reliable cane supply to JDW.

5.3 Project Location and Layout

The project site for the Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD) is located at Machi Goth, Sadiqabad, District Rahim Yar Khan as shown in Figure 3. The coordinates of site are; ***Latitude 28°14'36.2" North*** and ***Longitude 70°02'34.4" East.*** The layout may of project site is attached as Annex IV.

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Figure 3: Google Map showing Project Site

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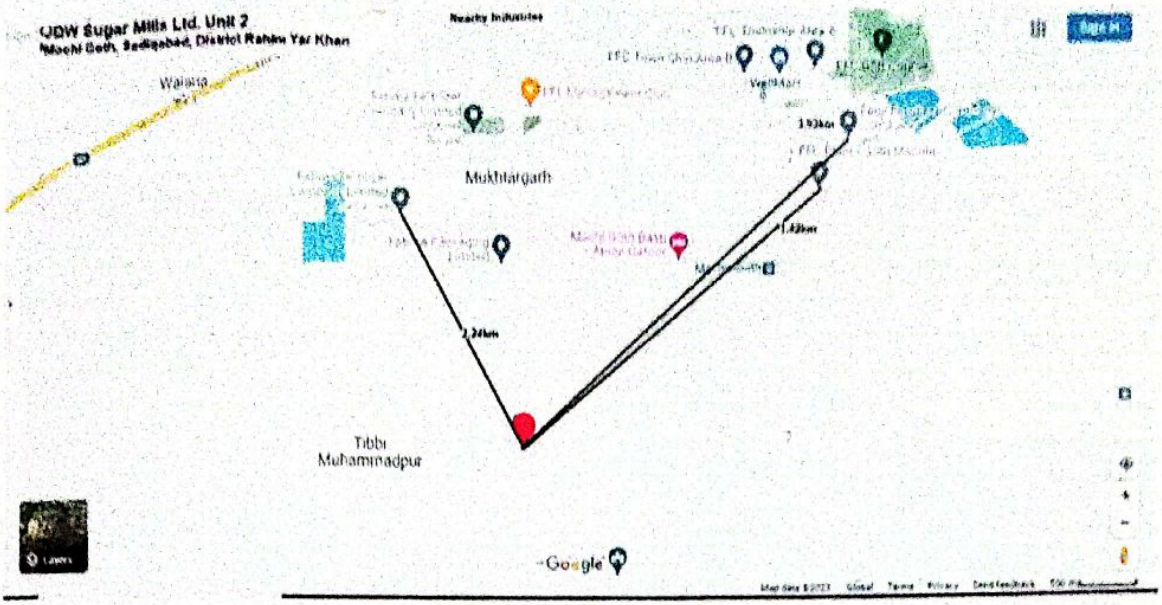


Figure 4: Map Showing Distances from nearby Industries

5.3 Land Use on the Site

The land use on project site industrial. In the said project, infrastructure has been developed and used for installation of machines and equipment as per the requirements.

5.4 Road Access

The site is accessible through main road. The road access map of project is attached below:

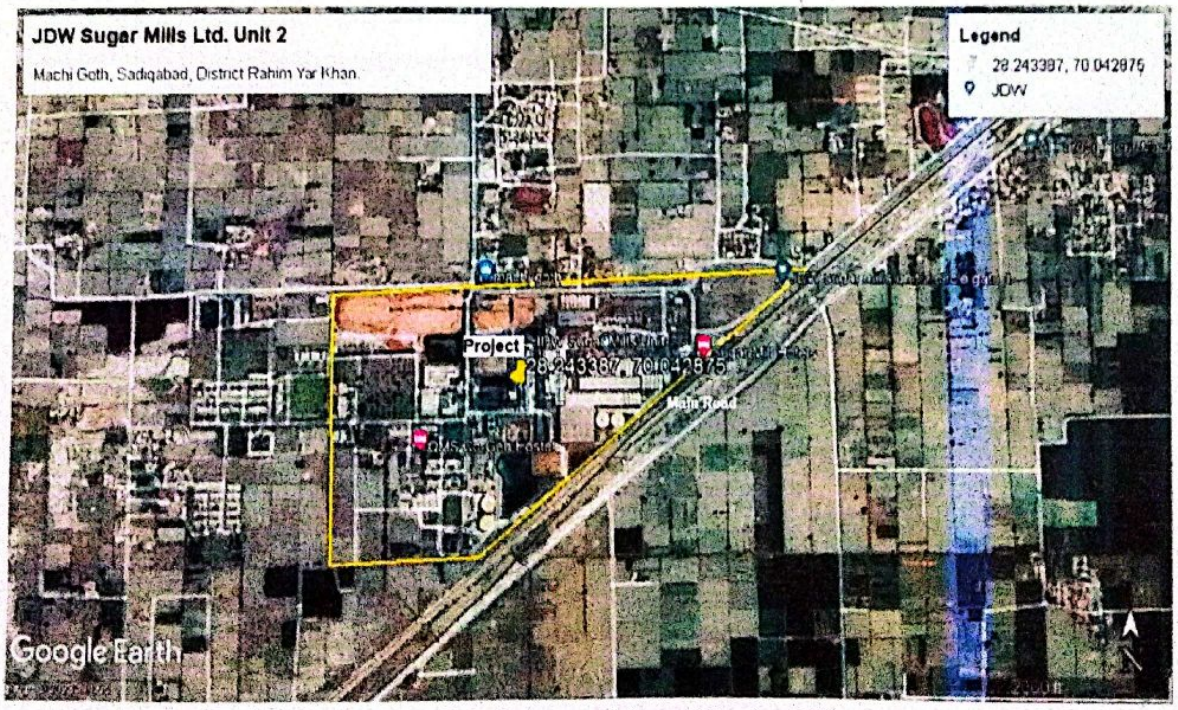


Figure 5: Road Access Map of Project Site

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5.5 Vegetation Features

Landscaping/ Tree plantation is present in surroundings of project area. During operation phase, green belts will be developed and it will serve as a useful green buffer.

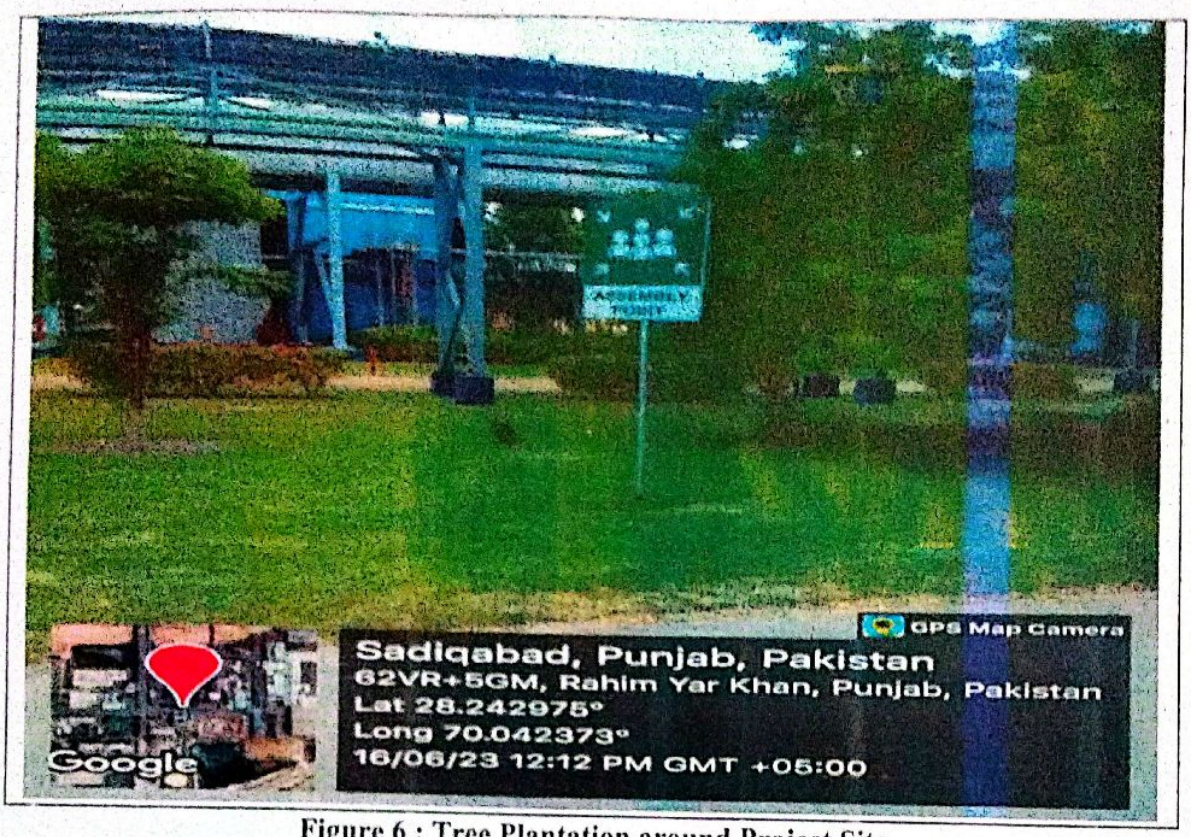


Figure 6 : Tree Plantation around Project Site

5.6 Cost and Magnitude of Operation

The estimated cost of aforesaid project is **approximately PKR 10 Million.** Purchase of raw material, operation and maintenance of production machinery are the costly activities involved in the operation phase of said project. Equipment safety will be assured if these operations are carefully managed. However, budget will be allocated for purchase and maintenance of standardized PPEs for workers and for waste management and environmental enhancement. Despite these costs, this project was found to be financially feasible. Magnitude of operations includes:

- Applying for and getting all necessary approvals and contracts
- Installation of firefighting equipment
- Marking of emergency exits and assembly points
- Tree plantation and landscaping

The allocated environmental budget is **PKR 10 Million approx.** The allocated environmental budget will be spent on landscape/green zone management, solid waste management, effluent treatment plant and its maintenance along with Environmental monitoring. The unit has indigenous and ornamental plants to increase the aesthetic value of the area. Thus, the project is also a source of employment for locals and would help in economic development activities of the area.

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5.8 Project Description

The project involves the production of Sugar and located at Machi Goth, Sadiqabad, District Rahim Yar Khan. The total area of the unit is 2178000Sft (400 kanal), having covered area of 1585418 Sft and open area of 592582 Sft. Layout Map is attached herewith as Annex- IV.

5.8.1 Schedule of Area

The detail of project area is as described in below table with respective to components.

Table 4: Area of Sugar Mill

Sr. No	Particulate	Area (Sft)
1.	Mill House Old	20800
2.	Cane Carrier Shed	7500
3.	New Mill House	27115
4.	New Mill Store & Work shop	22606
5.	Power House	8000
6.	Power House Extension	3354
7.	Boiling House	40000
8.	Boiling House Extension	5315
9.	Instrument Office and Work Shop Old	800
10.	Boiler House	16000
11.	Technical Office Block	2000
12.	Main Store Co-Gen	16000
13.	TPT Shed	5655
14.	Bagging House	2718
15.	Cooling Tower Mills	8028
16.	Cooling Tower Co-Gen	7963
17.	T,G Hall	13636
18.	Boiler Co-Gen	7854
19.	Water Treatment Lab.	4051
20.	Water Pond Co-Gen	18016
21.	Switch Yard Control Room	1866
22.	Switch Yard	32151
23.	Pump Station Co-gen	2031
24.	Water Treatment Plant + Control Room + Store	2300
25.	Cane Cash Room	1097
26.	Labour Barricks Mill	6616
27.	Safety Office	625
28.	Winding Shop Old	2520
29.	Spray Pond Pump Station	715
30.	Toilet Block	925

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11.	Colony Pump Station	224
12.	Jay Nanna	2167
13.	Boiler Control Room	573
14.	Cane Office	2635
15.	Lime Shed	1032
16.	Admin Block + Car Porch + First Floor	8349
17.	New Sugar godown Nos.3	80733
18.	New Sugar godown Nos.1	37653
19.	New Sugar godown Nos.2	37202
40.	New Sugar godown Nos.4	4 10333
41.	New Sugar godown Nos.5	5 69195
42.	Cycle Stand	5514
43.	Weighbridge	1218
44.	Main Gate Office	870
45.	Token Post	554
46.	Circle Office Yard	512
47.	DCS Control Room Extension	712
48.	Centrifugal Station	928
49.	Foundation for Pipe Supports	186
50.	Weighbridge#04 Control Room	970
51.	Transport Service Station	517
52.	Diesel & Petrol Pump	366
53.	Petrol Tank	213
54.	Canteen	2051
55.	G.M (Elect.) Office	410
56.	Toilet In Cane Yard	230
57.	Over Head Tank	400
58.	Boiler Control Room Extension	377
59.	Compressor Room Extension	95
60.	Weighbridge No.5	440
61.	Tg Control Room Extension	753
62.	Waste Water Treatment Plant	36973
	Total Covered Area	**592582**
	Total Mills Area	**1585418**
	Grand Total Mills Area	**2178000**

5.8.2 Raw Material

The sugar cane is the main raw material which will be purchased from local farmers.

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5.8.3 Process Description

The said project is Environmental Impact Assessment of JDW Sugar Mill Limited Unit II (22000 TCD) to produce refined sugar (white) through sugarcane using ***Defecation-Remelt-Phosphitation Process*** (Talo Process). The main steps involved in the process are following and process flow chart is attached as Annex-IX;

1. Washing and Initial Preparation
2. Extraction of Juice
3. Purification of Juice
4. Concentration of Juice
5. Crystallization
6. Centrifugation
7. Drying and Packing

5.8.3.1 Weighting and Initial Preparation:

The sugar cane is harvested after quality examination from food quality expert. The farmers then harvest the cane and transport it to the mill. Sometimes the cane is also bought at the mill's own centers within the command area from where it is then transported in trucks or via rail to the mill.

Sugar Cane is weighed using an electronic weigh bridge to maintain record of gross weight and then unloaded into cane carriers manually. Which conveys the cane to the cane preparatory devices. Electronic devices, depending on the cane-crushing rate control the speed of the cane carrier, and level in the cane carrier etc. The sugar cane is passed through the cane preparatory devices called leveler, cutter and shredder where in the cane is cut into small pieces to expose the juice cells for extraction.

5.8.3.2 Extraction of Juice

The prepared cane then passes through the milling 2 tandem having 4 roller mills necessary feeding device. The milling train continues to extract the maximum sucrose from the prepared cane with addition of hot water spray in last two mill which is called compound imbibition system. The cane is conveyed between mills with the help of mechanical conveyors. Screens then filter the extracted juice and filtered juice is pumped for further processing. The fibrous residue after juice extraction known as bagasse is withdrawn and conveyed through bagasse conveyors to boiler for steam generation. Surplus bagasse is withdrawn from the conveyor and stored for reuse when necessary. This bagasse may be used as substrate of chip board plant and number of other industrial purposes. The bagasse conveyor also has return conveyor to feed the stored bagasse.

5.8.3.3 Juice clarification:

The mixed juice received from milling after filtration is weighed in a juice weighing scale or by a mass flow meter to know the quantity of juice flowing. The juice contains certain undesirable impurities, which are removed before it is taken for concentration in evaporators. The juice is first heated to a temperature of 70-75°C. The hot juice is then mixed with lime to increase pH upto 7.2-7.5. The treated juice is again heated to a temperature of 102-105°C .The heated juice is then sent

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to a gravity settler known as clarifier wherein it stays for 45min so that mud agglomerate to form flocs and settles.

The mud settled at bottom of clarifier is withdrawn continuously and is mixed with bagasse to form fine baggasalo. Then it is filtered in a rotary vacuum filter. The filtered mud after removing residual juice in the filter is scraped from the filter drum and sent out. The filtrate juice is returned to the raw juice tank and re-circulated. The mud is used as bio-fertilizer and cattle feed.

5.8.3.4 Evaporation:

The clear juice will then be concentrated into syrup by boiling using steam in a process called evaporation. The main aim of this is water removal by multiple effect evaporation. Multiple effect evaporation is the scheme where the juice is boiled in series 4 or 5 vessels, with the steam being fed to vessel 1 only. The vapour from vessel 1 will boil the juice in vessel 2 and the vapour from 2 will boil the juice in 3, and so on until vapour from the final vessel goes to waste and the sugar is crystallized in vacuum pans. The clear juice gets concentrated from a brix of 15 to 65 after passing through multiple effect evaporators.

5.8.3.5 Crystallization:

Crystallization of sugar is one of the most vital steps in sugar milling which involves the formation of solid crystals. In the crystallization stage, the syrup will be boiled at low temperatures under partial vacuum and some sugar seeds added which will cause the development and growth of sugar crystals and the outcome is called massecuite. This will involve the feeding of pulverized sugar into the pan as the liquid evaporates, causing the formation of a thick mass of crystals. The crystals will then be spun dry in a centrifuge to produce crystal sugar. Crystallization is not only a means to convert the sucrose to a more usable form, but also an important refining step since pure sucrose tends to crystallize out of the solution, leaving most of the impurities in the associated syrup. The process will be undertaken under reduced pressure of 75-90kPa to allow a reduced boiling temperature (60-72°C) in order to avoid the formation of colored compounds. Crystals thus obtained will have a size of 1.5-4mm.

The sugar is then sent to sugar storage bins with the help of bucket elevators. The storage capacity of these storage bins is enough to store 24 hours production. The sugar is discharged from bins to fill 50kg bags and weighed automatically by electronic type automatic weighing machines. The sugar bags are transported to warehouse through belt conveyors.

5.8.3.6 By-products

Molasses will constitute the final effluent obtained on the preparation of sugar by repeated crystallization and will be in the form of non-useable molasses (blackstrap) or as edible syrup for industrial use. The non-useable molasses (blackstrap) will be used as animal feed additive. In the latter stages, the molasses may also be used to produce ethanol, compressed yeast, citric acid and run through the establishment of a distillery in the factory. But at present the molasses stored in 2 steel storage tanks of capacity 15000 m^3 each and sold out. Similarly mud and ash produced from

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the process will be sold to contractor, copy of contractor is attached as Annex-VI for Mud and Annex-VII for Ash.

The quantity of By- Products produces from the process are given in below Table 6.

Table 5: Quantities of By Products

Sr. No.	Particulars	Quantity (%age)	Quantity (tons)	Disposal/ Remarks
1	Mud	4.4449 % Cane	978.78	100% sold out through Contractor
2	Molasses	4.68801 % Cane	1029.6	Storage in steel tank 100% is sold out
3	Ash	0.75 % Cane	165.0	Sold to contractor
4	Bagasse	29% Cane	6380.0	Used as Fuel for Boiler

5.8.4 List of Machinery

The list of machines used in mill are as following with quantity;

1.	Feeding Table with Rectangular Tilting Table & Leveler	No. 1
2.	Feeding Table with Rotary Tilting Table & Leveler	No. 1
3	Auxiliary Cane Carrier	No. 1
4	Cane Leveler for Auxiliary Cane Carrier	No. 1
5	Chopped cane carrier	No. 1
6	Cane Leveler for Chopped Cane Carrier	No. 1
7	Hoist for Chopped Cane Carrier 20 Tons	No. 1
8	Heavy Duty Cane Cutters	No. 3
9	Main Cane Carrier	No. 1
10	Cane Leveler for Main Cane Carrier	No. 1
11	Heavy Duty Cane Shredder	No. 1
12	Shredded Cane Carrier	No. 1
13	Shredder Leveler	No. 1
14	Shredded Cane Rubber Belt Conveyor	No. 1
15	Magnet separator for Cane Rubber Belt	No. 1
16	4- Roller Mills 42" x 84" (HMC)	No.5
17	Mill Drive Motors 1200kw	No.5
18	Intermediate Gear (Siemens) 850Kw H3-SH, 22G	No. 5
19	Low Speed Gear 850Kw	No. 5
20	4 Roller Mill 50" x 100"	No. 2
21	CMD Gear for Mill 50"x100"	No. 2
22	Motor 1500 KW for Mill 50"x100"	No. 1
23	Motor 1800 KW for Mill 50"x100"	No. 1
24	E.O.T.Crane Span 26.5 Mtr Cap. 40/5 Ton	No. 1
25	Inter Carrier	No. 6
26	Dual Mill Lubrication System Set 1	No.1

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27	Mill Hydraulic System (Beasleys) Set	No.1
28	Rotary Screens	No. 4
29	Bagasse Elevator	No. 1
30	Induced Draft Cooling Tower FRP 400 Ton/Hr (Mill House)	No. 1
31	Boilers (Total Capacity: 210 TPH)	No. 5
32	Main Bagasse Carrier	No. 1
33	Return Bagasse Carrier	No. 1
34	Down Bagasse Carrier	No. 1
35	Ash Carrier	No. 1
36	1.6 MW Turbine Power House (Skoda)	No. 2
37	6 MW Turbine Power House (Shinko)	No. 2
38	10 MW Turbine Power House (Triveni)	No. 1
39	Induced Draft Cooling Tower FRP 400 Ton/Hr (Power House)	No. 4
40	Lathe Machines	No. 13
41	Shaper Machine	No. 2
42	Milling Machine	No. 2
43	Bench Drill Machine	No. 3
44	CNC Machine	No. 3
45	Hydraulic Press	No. 1
46	Mechanical Press	No. 2
47	Vapor Line Heaters	No. 2
48	Primary Juice Heaters	No. 8
49	Secondary Juice Heaters	No. 9
50	SRI Juice Clarifiers	No. 6
51	Rotary Juice Screens	No. 6
52	Vacuum Filters	No. 11
53	Vacuum Pumps	No. 8
54	Tab Clarifiers	No. 3
55	Baby Liquor Heaters	No. 2
56	Pressure Filters	No. 3
57	Robert Evaporators	No. 8
58	Raw Centrifugal Machines	No. 38
59	Juice Pre Heaters	No. 3
60	FFEs	No. 7
61	Continuous Pans	No. 7
62	Batch Pans -	No. 13
63	Vertical Crystallizer	No. 12
64	U-Shape Crystallizer	No. 24
65	Injection Pumps	No. 7
66	Spray Pumps	No. 9
67	Forced Draft Cooling Tower (Boiling House)	Cells 11
68	Refine Centrifugal Machines	No. 9
69	Sugar Hopper	No.4

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70	Sugar Dryer	No. 4
71	Sugar Elevator	No. 4
72	Sugar Grader	No. 4
73	Bag Filling Unit	No. 6
74	Sugar Bag Conveyors (Godown)	No. 5

5.8.5 Supplies

Following supplies will be required/utilized for Sugar processing Mill

5.8.5.1 Water requirement

The process water requirement of the unit during operational phase is given in below Table No.7;

Table 6: Water Balance

Sr No.	Description	T/Hr
1	Crushing: 22,000 TCD	917
	Total Water Available	**487**
2	Hot water used for irrigation purpose after cooling	250
3	Used for road showering and at boiler ash	60
4	Quantity of water evaporated at spray pond	40
5	Surplus water (Effluent)	93

5.8.5.2 Power & Steam Requirement

The steam requirement for processing has been fulfilled through 5 boilers. The amount of bagasse produced by the factory is estimated to be adequate to provide the amount of heat required for the boilers. Bagasse will constitute the main source of fuel for processing, with its combustion being undertaken in a closed environment thus, making it possible for complete combustion for higher energy saving and minimal aerial discharges. Boilers are equipped with cyclones and ash catcher for proper emissions control.

Power requirement of the project fulfilled through **Co-Generation plant of 26.35MW** capacity that provides power to the national Grid via 132KV switchyard (copy of NEPRA Approval is attached as Annex-XIII). The co-generation plant consists of boiler (140TPH capacity), a steam turbine (capacity: 26.35MW), AC generator (Capacity 34.375MVA) and a power transformer (capacity: 30/40 MVa, Make: Siemens). The fuel of boiler (140TPH capacity) is bagasse, is equipped with cyclones to control air emissions (drawing of cyclones and boiler stack emissions monitoring reports are attached as Annex-XIV). The said project produces 26.35MW of electricity using bio-fuel that not only fulfill the demand of unit but also reduce energy load on national grid in an environment friendly manner.

5.8.5.3 Manpower

The factory workforce requirements include both permanent staff and daily wagers. During season number of workers are 200 and in off-season, number of workers is 80.

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5.8.5.4 Personnel Protective Equipment

Following Personnel Protective equipment will be provided to the workers for their safety:

- Protective Helmets
- Protective Goggles
- Ear Plugs
- Protective leather/rubber shoes
- Gloves-leather, canvas, rubber and plastic
- Protective shields
- Overcoats
- Surgical masks

5.8.5.5 MANAGEMENT PLANS FOR OPERATIONAL SYSTEM

For the management of the wastewater and air emissions following measures will be adopted:

5.8.5.6 Wastewater and Effluent treatment plant

During processing wastewater generated at rate of 93t/h and is treated through the installed WWTP of Design Capacity 100 t/h. The wastewater consists of pH adjusting tank / equalization tank, anaerobic tank, aerobic tank, secondary sedimentation tank, primary and secondary sludge drying beds (WWTP layout is attached as Annex IX). The monitoring of treated wastewater has been carried out by PCSIR Laboratories Complex, Lahore regularly. The results of monitoring reports envisaged that treated wastewater is within prescribe limits of NEQS (reports are attached as Annex-IX). The wastewater after treatment though WWTP discharged into the Lamma Distributary (copy of bill is attached as Annex-V).

5.8.3.7 Air Emissions

During construction, dust emissions will be controlled by water sprinkling. Proper tuning of vehicles carried out on the regular basis in order to control the air pollution. The material prone to wind will be covered with tarpaulin.

During operation phase, crushing will be done in closed vicinity to prevent spread of particles of sugar cane. The cyclones are installed with boiler to mitigate the air emissions. Generators are placed in separate rooms. To avoid traffic jam due to vehicular movements, there is adequate parking for trolley and trucks that supply sugar canes. Water sprinkling has been done on regular basis to avoid dust suppression. Workers will be provided with PPEs to reduce the impact of air emissions. Hence, by adopting proper mitigation measures, air emissions have been controlled.

5.8.3.8 Solid Waste

The solid wastes and by-products of the said project are bagasse, mud and ash. Bagasse is cane milling waste fiber matter whose content is about 29.8 % of the cane. That has been re-used as fuel in the Boilers for steam generation.

The bagasse is stored in a bagasse yard before reuse at the sugar factory. The generated mud used as a fertilizer or as raw material in feed industry. Hence, in this instant unit, mud will be sold to

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contractor (copy of contract is attached as Annex-VII) for further reuse. Whereas, Ash produced from the plant is also sold to contractor (copy of contract is attached as Annex-VI). The disposal of non-biodegradable and recyclable matter, such as containers, waste papers, used materials, waste packaging materials are sold to local contractors for recycling or reuse purpose.

5.8.3.9 Evacuation Plan

The layout is designed in view of safety and security of work place and workers and maintained according to policy of the company. Emergency exit passages are established and maintained. A proper evacuation plan is formulated to cope with any emergency situation. Assembly points are set and proper training is provided to the workers and staff.

5.8.3.10 Firefighting Plan

The management has established a firefighting system and has placed CO_2 and dry chemical powder fire extinguishers at appropriate place to combat with any accident. Indoor and outdoor fire hydrants and fire monitor will be installed according to the codes and standards. Diesel storage tank area will be provided with foam devices / extinguishers. Sand buckets, foam sprays etc. will always remain in ready state. The emergency exist routes and assembly points are mentioned layout map as attached in Annex V.



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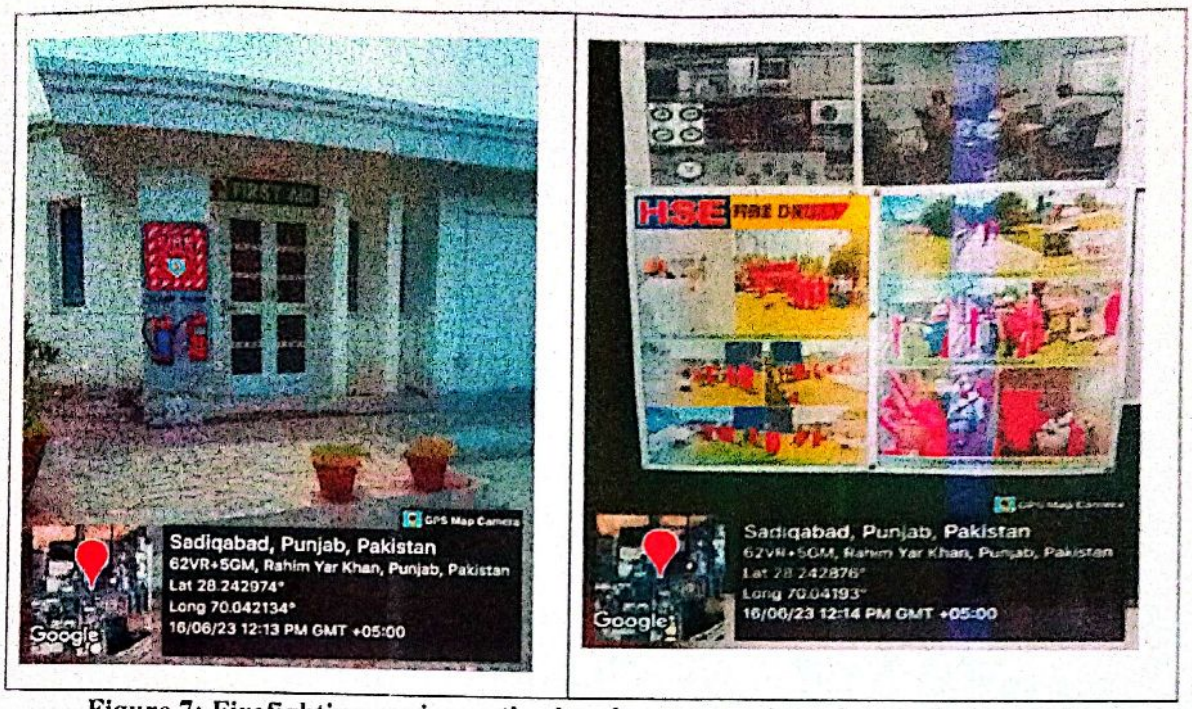


Figure 7: Firefighting equipment's placed at appropriate place in Sugar Mill

5.9 Relocation and Rehabilitation Plans

No structure of any significance stands at the site to be relocated or dismantled. Land is already under JDW Sugar Mills Limited Unit-II, therefore, no relocation and rehabilitation are required.

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Chapter 6

Description of Environment

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6 DESCRIPTION OF THE ENVIRONMENT

6.1 General

This section describes the baseline conditions, which shows the clear-cut picture of existing environmental resources; physical, ecological, and socio-economic environment of the Project area. Information on these aspects has been derived from field visits to the project area as well as information obtained through visits to the Government departments and other relevant agencies.

The primary data was collected by surveying the project area and its nearby vicinity. The secondary data regarding physical parameters (topography, geology, seismology, hydrology and climatology) was obtained by visiting relevant departments and their official websites. The biological parameters (flora and fauna) were also studied in the project area. The vegetation of project area was studied by preparing a floristic list based on visual observation. The species were recorded with reference to their historical existence in the project area.

Information on wildlife fauna species (mammals, amphibians, reptiles, birds, etc.) in the assessment area was compiled based on opportunistic observation, gathering the existing information and consultation with local experts, community members and government departments. The socio-economic aspects were studied and analyzed by conducting detailed socio-economic surveys.

6.1 BASELINE PHYSICAL ENVIRONMENT

This part examines the physical resources such as topography, soil, climate, surface and ground water resources and quality, ambient air quality and geology of not only the Project site but also the city as a whole to assess whether the project under assessment can or does have any impacts on any of these parameters. The description of physical environment of *Rahim Yar Khan* city and the project site is presented in the following sub sections.

6.1.1 Topography and Geography

The district lies between *27°40'-29°16' North latitude and 60°45'-70°01' East longitude.* The riverain area of the district lies close to eastern bank of river Indus and Panjnad. Rahim Yar Khan District is bounded on the north by Muzaffargarh District, on the east by Bahawalpur District, on the south by Jaisalmer district (India) and Ghotki District of Sindh province, and on the west by Rajanpur District.

The topography of project area is flat. The site selected for project is located at Machi Goth, Sadiqabad, District Rahim Yar Khan, Punjab. The coordinates of the site are; **Latitude 28°14'36.2"N and Longitude 70°02'34.4"E.**

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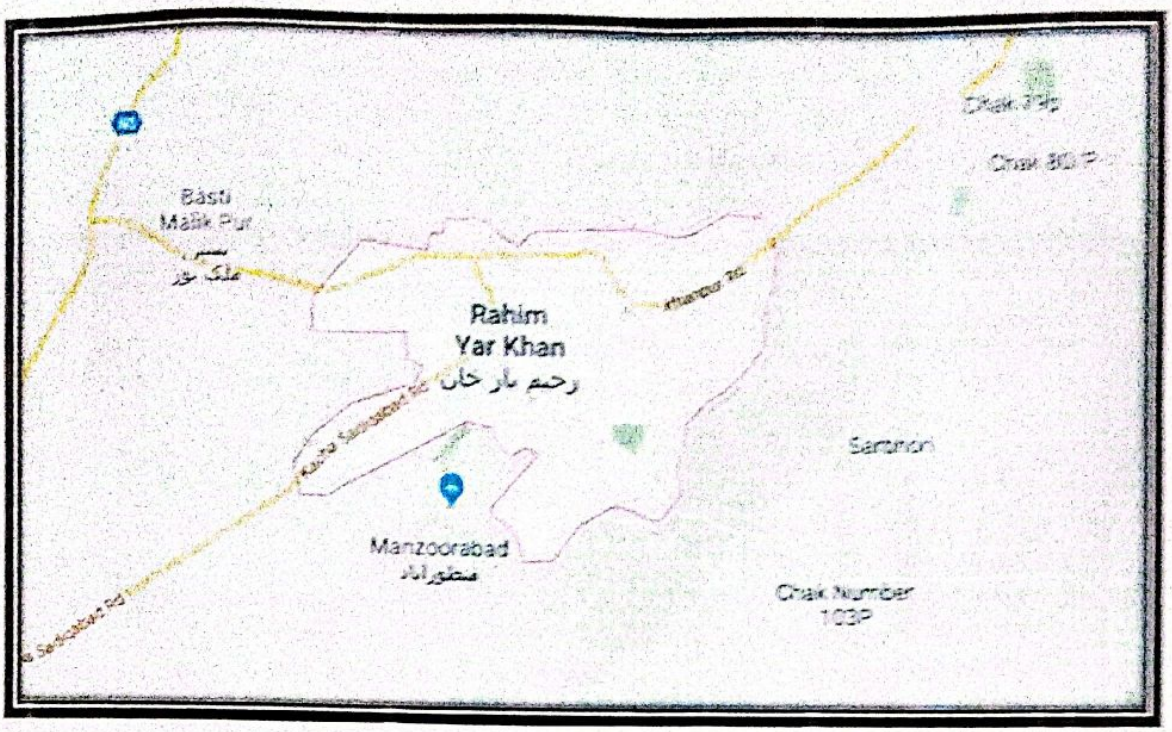


Figure 8: Map of Rahim Yar Khan District

This district is divided into three main physical features: (a) Riverside area, b) canal-irrigated area, and (c) desert area which is called Cholistan. The Riverside area of the district lies close on the southern side of the Indus River mainly falling in the river bed. The canal-irrigated area lies on the south and is separated by main Minchan Bund. The approximate height of the irrigated area is *150 to 200 meters (490 to 655 ft)* above sea level. The third part of the area, called Cholistan, lies in the south of the irrigated tract up to the Indo-Pak border. The surface of the desert consists of a succession of sand dunes rising at places to a height of 150 meters (492 ft) and covered with the vegetation peculiar to sandy tracts.[1]

6.1.3 Demography

At the time of the *2017* census, the district had a population of 4,807,762, of which 2,461,780 were males and 2,345,413 females. Rural population is 3,776,779 while the urban population is 1,030,983. The literacy rate was 46.62%.[2]

6.1.4 Seismicity

A seismic hazard analysis is based on both the geological and seismological history of the region, including recent and historical seismicity (earthquake catalogue), supplemented with available paleo-seismological information.

Pakistan is an earthquake prone country. A number of earthquakes have hit Pakistan resulting in losses of life and property. Pakistan Meteorological Department (PMD) presently has a network of

[1] https://en.wikipedia.org/wiki/Rahim_Yar_Khan_District
[2] https://historypak.com/rahim-yar-khan/

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eleven seismic stations. By using recorded data the seismicity and zoning maps of Pakistan have been developed by PMD. Seismic Zoning Map of Pakistan showing Proposed Project site area is presented as Figure, indicating zones according to the Building Code of Pakistan - 2007. The project site falls in Seismic Zone 2A/minor to moderate damage zone according to the Seismic Zoning Map of Pakistan.

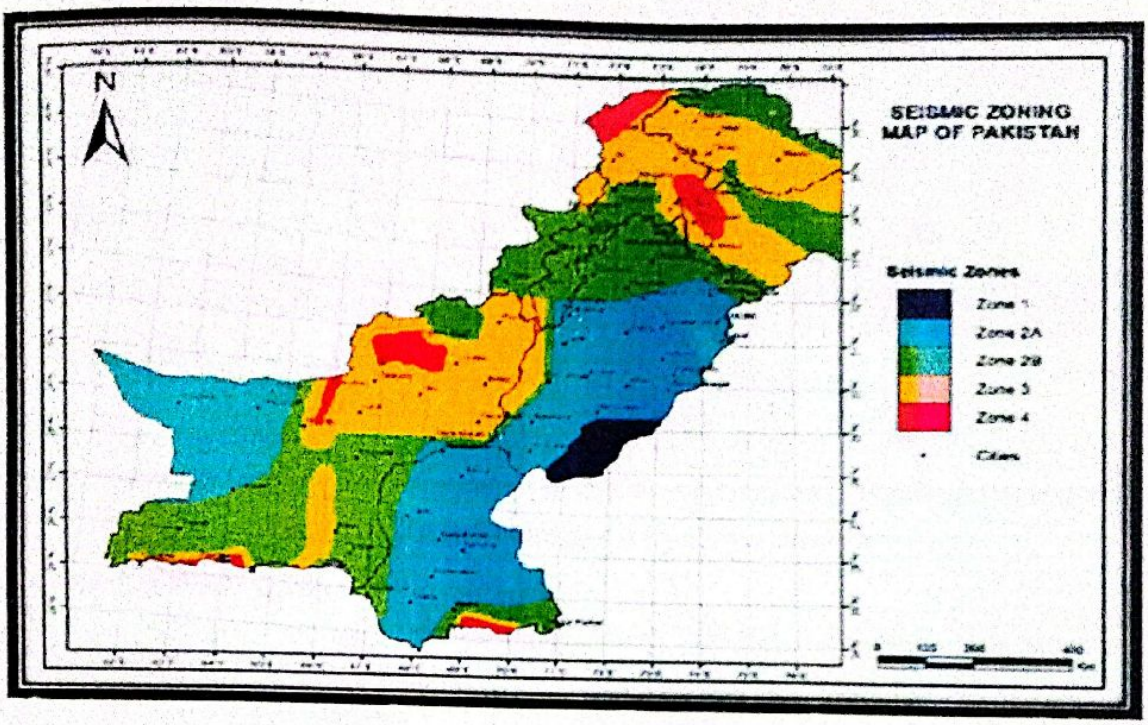
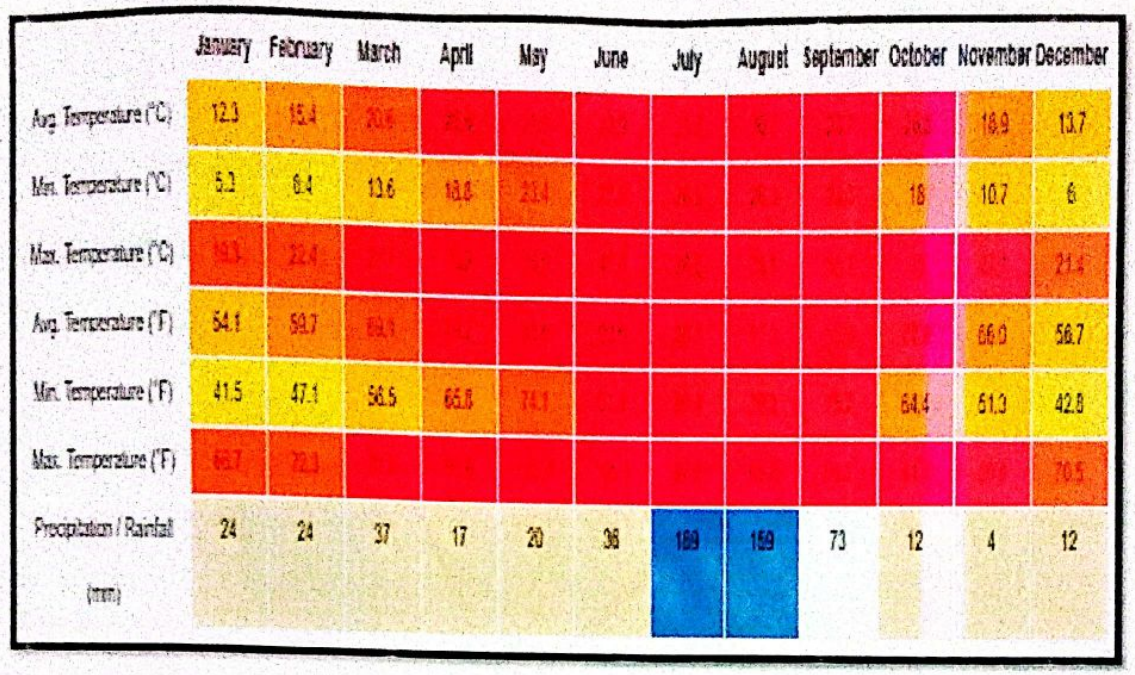


Figure 9: Seismic Zoning of Pakistan

6.1.2 Climate

The climate here is "desert." During the year, there is virtually no rainfall in Rahimyar Khan. As per the Köppen-Geiger classification, the prevailing weather conditions in this region are categorized under BWh. In Rahimyar Khan, the average annual temperature is 26.9 °C | 80.4 °F. Precipitation here is about 174 mm / 6.9 inch per year. Rahim Yar Khan is in the northern hemisphere. Summer begins at the end of June and ends in September. The hottest month is June, where average highs routinely exceed 40°C (104.0 °F). The wettest month is July, with heavy rainfalls and evening thunderstorms with the possibility of cloudbursts. The coolest month is January with dense fog. The city's highest maximum temperature was 48.3°C (118.9 °F) recorded on May 30, 1944 and 48°C (118°F) was recorded on June 9, 2007. The lowest temperature recorded in Khanewal is –1°C, recorded on 13 January 19672.

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	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	12.3	15.4	20.6	27.4	32.2	33.2	34.1	32.5	29.7	24.1	18.9	13.7
Min. Temperature (°C)	5.2	8.4	13.6	18.8	23.4	25.1	26.1	25.2	22.5	18	10.7	6
Max. Temperature (°C)	19.3	22.4	27.6	36.1	41.1	41.3	42.1	39.8	36.9	30.3	27.1	21.4
Avg. Temperature (°F)	54.1	59.7	69.1	81.3	90.0	91.8	93.4	90.5	85.5	75.4	66.0	56.7
Min. Temperature (°F)	41.5	47.1	56.5	65.8	74.1	77.2	79.0	77.3	72.5	64.4	51.3	42.8
Max. Temperature (°F)	66.7	72.3	81.7	97.0	105.9	106.3	107.8	103.6	98.4	86.5	80.7	70.5
Precipitation / Rainfall (mm)	24	24	37	17	20	36	189	159	73	12	4	12

Figure 10: Temperature and Rate of Precipitation

6.1.3 Surface Water Quality

No surface water body/reservoir is located within 2 km of study area. No impact is being envisaged due to installation of above-said project.

6.2 BASELINE BIOLOGICAL ENVIRONMENT

The biological environment consists of the flora and fauna present at the study as well as project area. There are no endangered or IUCN Red list species reported from the area. The detail of each parameter is given below.

6.2.1 Flora and Fauna

The flora of the district characterizes two major ecological divisions, northern and southern. The botanical life found in the northern half is like that of the rest of the irrigated tracts at central Punjab.

The arid land, referred to as the Cholistan desert, has a lot of wild life including Wild cats, the Chinkara deer, jackals, foxes, badgers, porcupines, squirrels, gerbils, wild rats, poisonous snakes, hog deer etc.

6.3 BASELINE SOCIO-ECONOMIC ENVIRONMENT

This section provides collective information about the existing socio-economic and environmental condition of the project area within the Area of Influence (AOI). The different types of socio-economic aspects were covered such as demographic profile, occupation, education and health facilities. This data helped in identifying major interventions for the development of Environmental Management Plan (EMP). The study also helped to assess the positive or adverse impacts on local community.

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This topic provides an overview of the baseline information relating to the socio-economic environment of the project area and the AOI. The socio-economic study gives information about the demographic profile, occupation, education and health facilities in the project area.

6.3.1 Industry

The distance from the Nearby industries is shown below in Fig 11.

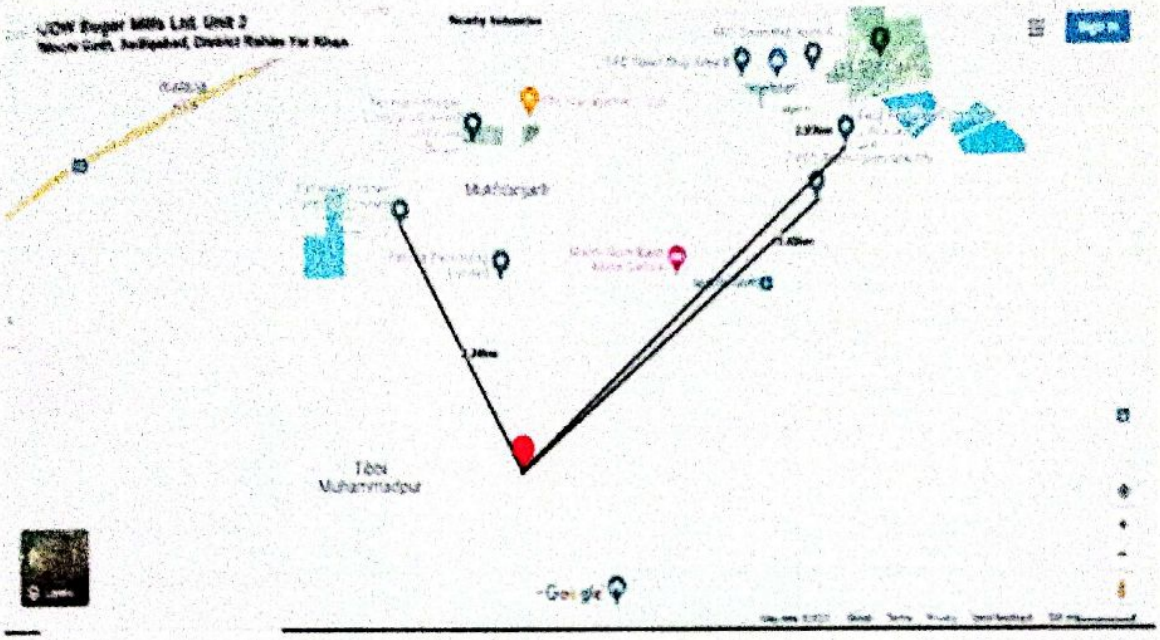


Figure 11: Nearby Industries

6.3.2Healthcare Facility

Healthcare services are provided to the citizens by both public and private sector hospitals. Moreover, there are a number of private hospitals near Project site.

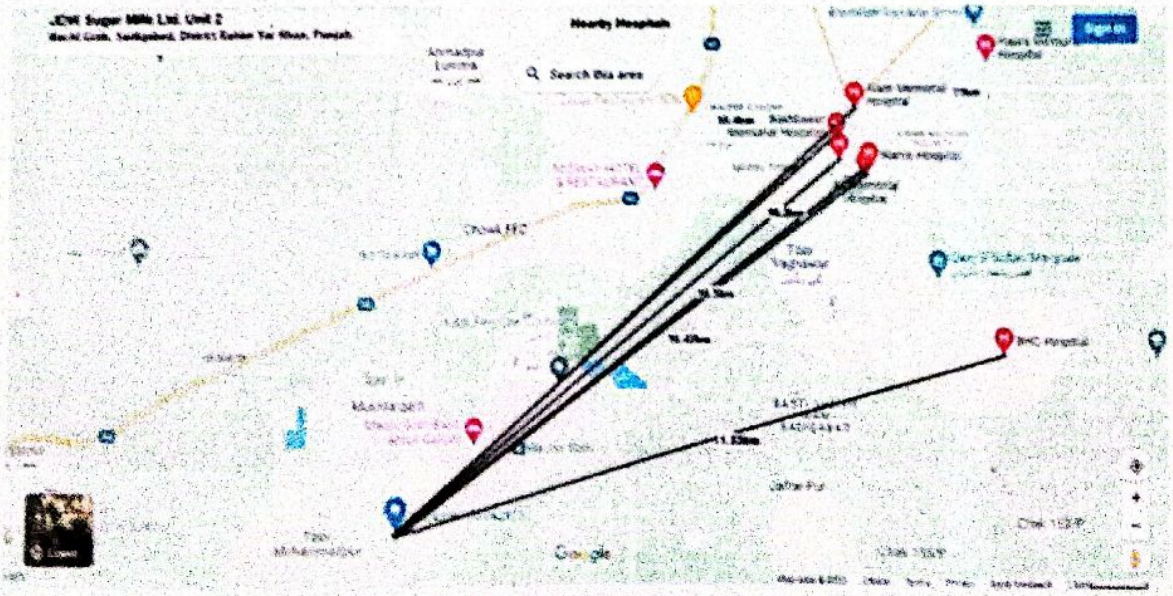


Figure 12: Nearby Healthcare Facilities

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6.3.5 Educational Facilities

Following schools are present in project area vicinity; as shown in Fig:13 below;

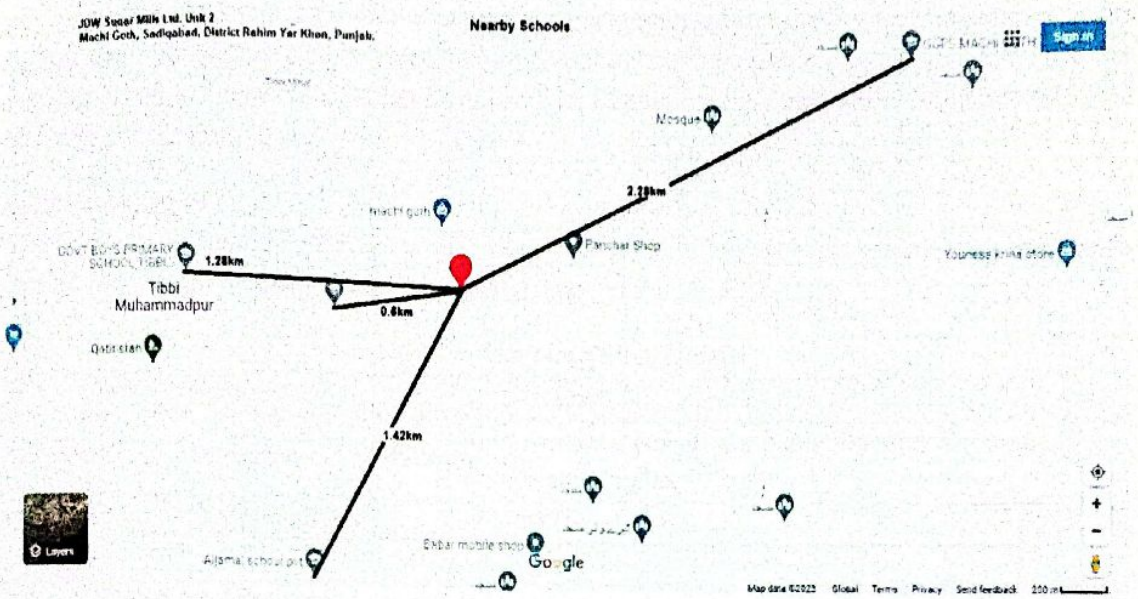


Figure 13: Nearby schools

6.3.6 Road Access

Project site is accessible through main road as shown below in Figure 14:

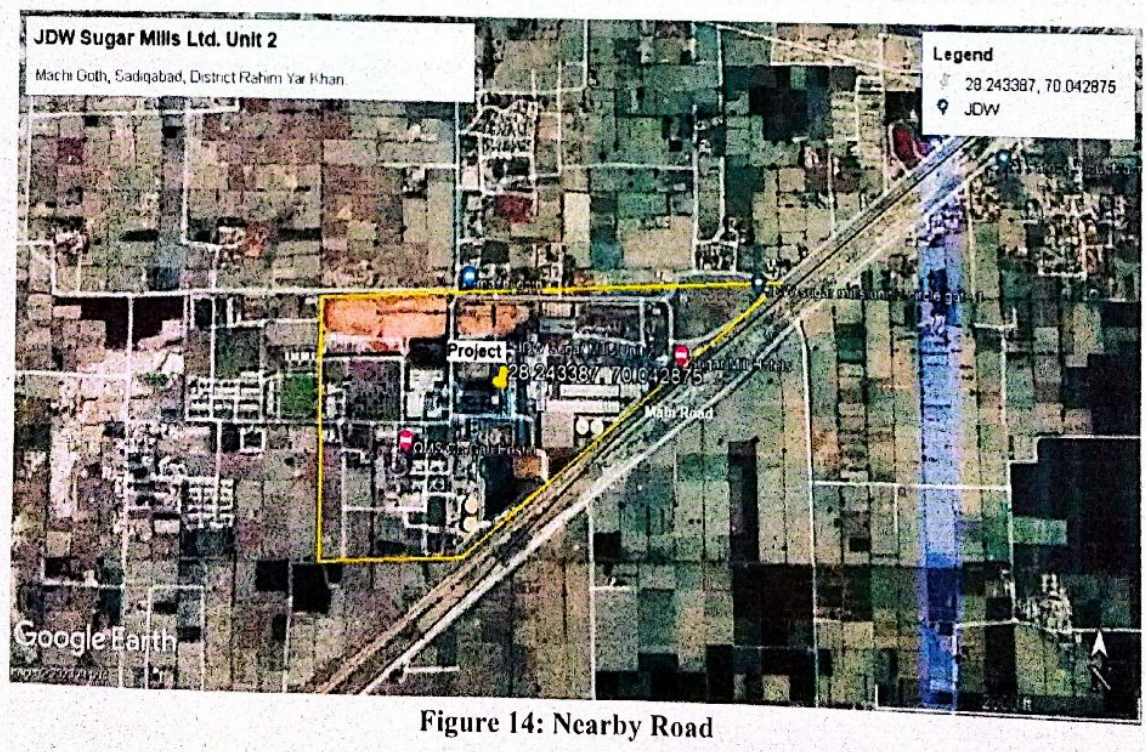


Figure 14: Nearby Road

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6.4 LAB REPORTS OF ENVIRONMENTAL ANALYSIS

JDW Sugar Mills Limited. Unit-II Environmental Services Pakistan (ESPAK) was engaged to carry out environmental monitoring of ambient air quality, ground water quality and noise level in the project area. Laboratory analysis reports of ambient air quality, ambient noise and surface water analysis results are annexed at Annex-X of this EIA Report and the detail information related to the testing results is given below:

6.4.1 Sampling Sites

The sampling was carried out at the project site which is identified to collect samples of water, noise and air for testing according to the testing guidelines of Punjab-EPA.

Table 7: Sampling Sites Details

Sr#	Particulars	Details
1	Parameters of Monitoring	Ambient Noise, Ambient Air and Ground Water Quality
2	Sampling Sites	01 (One)

6.4.2 Ambient Air Quality

In order to determine the air quality of the project area, environmental monitoring was carried out by ESPAK being EPA certified Laboratory and having the requisite air sampling device and expertise for collection of samples. The primary air pollutants to be monitored are: Carbon Monoxide (CO), Oxides of Nitrogen (NOx), Sulphur Dioxide (SO2), Particulate Matter (PM) and Ozone (O3).

To determine the air quality of the area ambient air monitoring was done on spot (spot sampling) and the results obtained are given below in **Table-8.**

Table 8: Ambient Air Monitoring

S. No	Parameters	Limit Values (PEQS-24 Hours)	Concentration	Method/ Equipment Used	Remarks
1.	**Carbon Monoxide (CO)**	5 mg/m^3 (8 hours)	1.3 mg/m^3	Non-Dispersive Infrared Absorption (NDIR)	Within Prescribed Limits
2.	**Sulfur Dioxide (SO_2)**	120 $\mu g/m^3$	18.7 $\mu g/m^3$	UV Fluorescence (UVF)	Within Prescribed Limits
3.	**Ozone (O_3)**	130 $\mu g/m^3$ (1 hour)	27.1 $\mu g/m^3$	Non-Dispersive UV Absorption	Within Prescribed Limits
4.	**Oxides of Nitrogen as NO**	40 $\mu g/m^3$	10.1 $\mu g/m^3$	Chemiluminescence detection	Within Prescribed Limits

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5.	**Oxides of Nitrogen as NO_2**	80 µg/m³	27.9 µg/m³	Chemiluminescence detection	Within Prescribed Limits
6.	**Particulate Matter $PM_{2.5}$**	35 µg/m³	32.7 µg/m³	Particulate Sensor	Within Prescribed Limits
7.	**Particulate Matter PM_{10}**	150 µg/m³	121 µg/m³	Particulate Sensor	Within Prescribed Limits
8.	**Suspended Particulate Matter (SPM)**	500 µg/m³	311 µg/m³	High Volume Sampler (HVS)	Within Prescribed Limits

6.4.3 Noise

Noise level monitoring or measurement is a process to measure the magnitude of Noise in industries. Prolonged exposure to loud noises (75 dB over eight hours a day for years) can lead to hearing loss. Therefore, noise level should fall under the prescribed Punjab Environmental Quality Standards (PEQS). Noise level measurements had been carried out within the selected site. This analysis showed that values are much below the limit prescribed under the Punjab Environmental Quality Standards (PEQS).

Table 9: Noise Monitoring Results

Measurement Point	Limit values (PEQS)	Noise level in dB(A) Leq	Remarks
Mid-point of Site – Day Time	75dB(A) (Day Time)	69 dB(A)	Within Prescribed Limits
Mid-point of Site – Night Time	65dB(A) (Day Time)	61 dB(A)	Within Prescribed Limits

6.4.4 Water Resource

Ground water is the principal source of municipal water supply in RYK. Ground water samples were collected from project site. Water samples were tested for physio-chemical parameters (Temperature, pH, TDS, EC, Color, Odour and Taste). The ground water was being used in the study area for domestic purposes. To check the quality of the water in the area ground water was collected and analyzed by ESPAK. Water quality monitoring results of project area are given below in **Table-10**

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Table 10: Groundwater Monitoring Results

	Parameters	Limit Values (PEQS)	Concentrations	Method Used	Remarks
1.	Total Coliform	---	ND	SMWW 9221 B	---
2.	E.Coli	Must not be detectable in any 100mL sample	ND	SMWW 9221 F	Within Limits
3.	Color	≤15 TCU	Nil	SMWW 2120 C	Within Limits
4.	Taste	Non Objectionable	Acceptable	Organoleptic	Within Limits
5.	Odor	Non Objectionable	Acceptable	Organoleptic	Within Limits
6.	Turbidity	5 NTU	ND	SMWW 2130 B	Within Limits
7.	Total Hardness as $CaCO_3$	<500 mg/L	312 mg/L	SMWW 2340 C	Within Limits
8.	Total Dissolved Solids (TDS)	<1000 mg/L	411 mg/L	SMWW 2540C	Within Limits
9.	pH	6.5-8.5	7.8	SMWW 4500H+ B	Within Limits
10.	Nitrate (NO_3^-)	50mg/L	10.3 mg/L	SMWW 4500NO_3^- B	Within Limits
11.	Nitrite (NO_2^-)	≤3mg/l	ND	SMWW 4500NO_2^- B	Within Limits
12.	Residual Chlorine	0.2-0.5 mg/L	ND	SMWW 4500Cl^- B	----
13.	Chloride (as Cl^-)	250 mg/L	39 mg/L	SMWW 4500 Cl^- B	Within Limits
14.	Fluoride (F^-)	≤1.5 mg/L	1.0 mg/L	U.S. EPA 9214	Within Limits
15.	Phenolic Compounds (As Phenols)	NGVVS	ND	SMWW 5530 C	----
16.	Cyanide (CN^-)	≤0.05 mg/L	ND	SMWW 4500 CN^- F	Within Limits
17.	Cadmium(Cd)	0.01 mg/L	ND	U.S. EPA-200.7	Within Limits
18.	Chromium(Cr)	≤0.050 mg/L	ND	U.S. EPA-200.7	Within Limits

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19.	**Copper (Cu)**	2mg/L	ND	U.S. EPA-200.7	Within Limits
20.	**Lead(Pb)**	≤0.05 mg/L	ND	U.S. EPA-200.7	Within Limits
21.	**Mercury(Hg)**	≤0.001 mg/L	ND	U.S. EPA-200.7	Within Limits
22.	**Nickel(Ni)**	≤0.020 mg/L	ND	U.S. EPA-200.7	Within Limits
23.	**Zinc (Zn)**	5mg/L	0.2 mg/L	U.S. EPA-200.7	Within Limits
24.	**Arsenic (As)**	≤0.050 mg/L	ND	U.S. EPA-200.7	Within Limits
25.	**Barium (Ba)**	0.7 mg/L	0.1 mg/L	U.S. EPA-200.7	Within Limits
26.	**Aluminum(Al)**	≤0.2 mg/L	ND	U.S. EPA-200.7	Within Limits
27.	**Manganese (Mn)**	≤0.5 mg/L	0.2 mg/L	U.S. EPA-200.7	Within Limits
28.	**Boron (B)**	0.3 mg/L	ND	U.S. EPA-200.7	Within Limits
29.	**Fecal Coliform Bacteria**	Must not be detectable in any 100mLsample	ND	SMWW 9221 F	Within Limits
30.	**Antimony (Sb)**	≤0.005 mg/L	ND	U.S. EPA-200.7	Within Limits
31.	**Selenium (Se)**	0.01mg/L	ND	U.S. EPA-200.7	Within Limits

6.5 SAUITABILITY OF THE SITE

As the site is surrounded by various other industrial activities and no relocation is required for establishment of current project. The site does no fall in environmental sensitive area and all commodities are at a suitable distance from project site as they will not impact by the construction activities even locals will get more benefits and job opportunities. No replacement, relocation and rehabilitation are required for the development of above-said project.

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Chapter 7

Impact Assessment

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7 IMPACT ASSESSMENT

7.1 General

This section discusses the potential environmental impact due to Construction of Sugar processing Mill of JDW Sugar Mills Limited Unit-II. The impacts may include: soil contamination, water resources depletion, biological resources disturbance and socio-economic impacts and, where applicable, identifies mitigation measures that will reduce significantly, if not eliminate, its adverse impact. The assessment carried out in this Section is based on potential impacts on overall environmental receptors within the project area.

7.2 Methodologies for Impact Identification

This section discusses the project's potential environmental impact of above-mentioned unit. The adverse impact may occur on; the area's geomorphology, soil, water resources, air resource, biological resources and socio-economic condition and where applicable, identifies mitigation measures that will reduce significantly, if not eliminate, its adverse impact. The assessment carried out in the sub-sections below is based on potential impacts on overall environmental receptors within the project area. Impacts are evaluated on the basis of magnitude, immediacy and sustainability.

The said project will not pose any adverse impact or threat on any component of the environment. The impact assessment criteria are given below along with their impacts:

Table 11: Impact Significance Criteria

Impact	Criteria
No Impact	When the proposed activity will have no impact
Long Term	When the impact is of high intensity with high spread and high duration or of high intensity with medium spread and medium duration
Moderate Term	When the impact is of moderate intensity with high spread and high duration or of high intensity with low/ moderate spread and low duration
Short Term	When the impact is of low intensity but with moderate spread and moderate duration or of moderate intensity
Insignificant	When the impact is of low intensity, low spread and low duration
Adverse	When the impact is of large intensity, spread easily and long-term
Beneficial	When the impacts are positive and improve the environmental conditions

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Table 12: Impact Matrix Checklist for Designing Phase

Environmental Sensitivities	Intensity of Impact						Impact Nature		Impact Significance				
	Low Intensity	Moderate Intensity	High Intensity	Local	National	Regional	Beneficial	Adverse	Insignificant	No Impact	Short Term	Moderate	Long Term
Physical Parameters													
Topography													
Land Acquisitions													
Seismicity													
Biological Parameters													
Land Environment													
Flora													
Fauna													
Social Parameters													
Local Economy													
Social Impacts													

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Table 13: Impact Matrix Checklist for Demolition Phase

Environmental Sensitivities	Intensity of Impact						Impact Nature		Impact Significance				
	Low Intensity	Moderate Intensity	High Intensity	Local	Moderate	Regional	Beneficial	Adverse	Insignificant	No Impact	Short Term	Moderate	Long Term
Physical Parameters													
Air Quality			✓										
Noise		✓											
Water Quality		✓											
Biological Parameters													
Land Environment		✓											
Flora	✓												
Fauna	✓												
Physical Parameters													
Local Economy			✓										
Social Impacts			✓										
Health & Safety			✓										

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Table 14: Impact Matrix Checklist for Construction Phase

Environmental Sensitivities	Intensity of Impact						Impact Nature		Impact Significance				
	Low Intensity	Moderate Intensity	High Intensity	Local	Moderate	Regional		Adverse	Insignificant	No Impact	Short Term	Moderate	Long Term
Physical Parameters													
Air Quality	✓												
Noise		✓											
Water Quality		✓											
Biological Parameters													
Land Environment													
Flora	✓												
Fauna	✓												
Physical Parameters													
Local Economy													
Social Impacts													
Health & Safety	✓												

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Table 15: Impact Matrix Checklist for Operational Phase

Environmental Sensitivities	Intensity of Impact						Impact Nature		Impact Significance				
	Low Intensity	Moderate Intensity	High Intensity	Local	Moderate	Regional	Beneficial	Adverse	Insignificant	No Impact	Short Term	Moderate	Long Term
Physical Parameters													
Noise	✓												
Water Quality	✓												
Biological Parameters													
Land Environment	✓												
Flora	✓												
Fauna	✓												
Physical Parameters													
Local Economy			✓										
Social Impacts			✓										
Health & Safety	✓												

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7.3 Identification of Monitoring Requirements

The last step in the assessment process is the identification of minimum monitoring requirements. The scope and frequency of monitoring depends on the residual impacts. The purpose of monitoring is to confirm that the impact is within the prescribed limits and to provide timely information if acceptable limits are being breached.

7.4 Methodology for Impact Evaluation

These tools have been used to identify the significance and magnitude of the impact as well as the nature, reversibility and extent:

- An Impact Screening Checklist
- Project Impact Evaluation Matrix

Following is given a brief description of assessment tools:

a. Impact Screening Checklist

The impact screening checklist is developed to screen out potentially insignificant environmental and social impacts from potentially significant adverse environmental and social impacts during planning & designing, demolition, construction and operational phases of the project. The objective of impact screening process is to assess the significance of issues related to the air, water, noise, soil, transportation, civil work, communication, the hazards and external constraints. The beneficial and adverse impacts of project during planning & designing, construction and operational phases are identified based on their duration, location, frequency, extent, significance and reversibility. The impact of each activity on various environmental parameters is given below:

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Table 16: Characteristics of Impacts

Sr#	Environmental Component	Impact Characteristics												
		Duration		Location		Frequency		Extent		Significance			Reversibility	
		Long	Short	Direct	Indirect	Cont.	Intermittent	Wide	Local	Large	Moderate	Minor	Rev.	Irrev.
Beneficial Impacts														
1	Employment Opportunity	■		■		■			■		■		■	
2	Export of finished goods	■		■		■			■		■		■	
3	Appreciation in Land Value	■			■	■			■			■		■
4	Tree Plantation	■		■		■			■		■		■	
Adverse Impacts														
1	Air Pollution		•	•			•		•			•	•	
2	Wastewater		•	•		•			•			•		•
3	Solid Waste and By-Products	•		•		•			•		•			•
4	Health and Safety		•		•		•		•			•		•
5	Chemical Hazards		•		•	•			•		•			•
6	Physical Hazards		•	•			•		•			•		•
7	Security Risks		•		•		•		•		•		•	

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b. Project Impact Evaluation Matrix

The Project Impact Evaluation Matrix was developed by placing different environmental parameters that are likely to be affected by the proposed project actions, grouped into categories i.e., physical, ecological, socio-economic environment and hazards. For assessment of associated impact risk assessment methodology was used. Moreover, the risk assessment was done on the basis of project phases (planning & designing, construction and operation). A Project Impact Evaluation Matrix is attached as **Table 18** below:

Table 17: Impact Evaluation Matrix

Environmental Parameters	Impact Assessment during Different Phases	
	Construction	Operational
Planning and Designing		
i. Location	+2p	+2p
ii. Design	+1p	+1p
A: Physical		
1. Land Resources		
i. Soil Erosion and Contamination	-2t	-2t
ii. Transportation	-1t	-1t
iii. Solid Waste and By-Products	-2t	-1p
2. Air Resources		
i. Noise Pollution	-1t	-1t
ii. Air Pollution	-1t	-1t
iii. Dust Emissions	-1t	-1t
3. Water Resources		
i. Ground Water	-1p	-1p
ii. Wastewater	-1p	-1p
B : Ecological		
Flora		
i. Tree Cutting	-1t	+1p
Fauna		
ii. Terrestrial Fauna	NA	NA
C: Socio-Economic		
i. Employment Opportunities	+1t	+3p
ii. Land Value Appreciation	+1t	+2t
iii. Economic Uplift of Study Area	+1p	+3p
D: Hazards		
i. Physical Hazards	-1t	-1p
iii. Health and Safety	-1t	-1p
Legends: 1= Low; 2= Medium; 3= High; 4= Extremely High; NA= Not Applicable; t= Temporary; p= Permanent; app= Applicable; 0= Negligible		

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Chapter 8

Screening of Potenital Environmental Impact and Mitigation Measure

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8 SCREENING OF POTENTIAL ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

8.1 General

This Chapter identifies the potential impacts (positive and adverse) on the physical, biological and socio-economic environment of project area due to the JDW Sugar Mills Limited Unit-II. It also identifies measures that will help to mitigate the adverse environmental and social impacts as well as it will enhance positive impacts of aforesaid project. Impacts are assessed by analyzing their magnitude and sensitivity, which is a legal requirement as discussed in **Chapter 07**

8.2 Impact and Mitigation Management

Purpose of mitigation is to evade, reduce or balance the expected antagonistic effects in suitable way and to integrate these for devising environmental management strategy or plan. At every stage of project, mitigation plan for all the adverse impacts should be predicted to find out the best alternative. The objectives of mitigation are to:

- Invent of best substitution, better alternatives and ways to reduce the adverse environmental and social impacts in immediate surroundings.
- To improve the environmental and societal payback of project.
- To prevaricate, remedy/reduce and pro-vocative impacts.
- To certify that remaining negative influences are kept within permissible limits.

In this part of the EIA Report, a number of complications including; cleanliness, environmental health and safety, societal and environmental managing and inspection, industrial vulnerability, tools and apparatuses and during operational activities, influx of workers and procurement of land have been deeply elaborated.

8.3 Approaches for Mitigation Measures

Following approaches may be used to mitigate the impacts of the project:

Table 18: Approaches for Mitigation Measures

Avoid: Change of route or site details, to avoid damage important ecological or archaeological features.
Replace: Regenerate similar habitat of equivalent ecological value in different location.
Reduce: Filters, cyclones, noise barriers, dust, enclosures, visual screening, wildlife corridors and changed time of activities to reduce the impact.
Restore: Site restoration at the end of the operational activities.
Compensate: Relocation of displaced communities, facilities for the affected communities, financial compensation for the affected individuals, etc.

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8.4 Expected Positive Impacts

Following is the expected outcome for construction of above stated project:

a) Increase in Employment Opportunities

Due to construction of aforesaid project, the employment opportunity will be slightly enhanced. During construction phase, 80 workers will be hired from local community include; skilled and un-skilled workers. During operational phase, approximately 200 persons will be required. It will include hiring of technical and non-technical staff. Locals will also have the opportunity to diversify their income by being employed. Hence, there will be an increased employment opportunity for the local people which will have a positive impact on the socio-economic status of the area.

b) Tree Plantation

In the said project, trees are planted in the designated green areas to enhance the aesthetic beauty of the area.

c) Adverse Impacts and Mitigation Measures

This section identifies the potentially significant and in-significant adverse environmental and social impacts anticipated during the operation phase of said unit. Appropriate mitigation and management measures, where applicable, have also been suggested to reduce the severity of anticipated impact up to the extent possible.

8.5 Impacts and Mitigations due to Project Location

During planning and designing phase most of the associated impacts will be associated with the selection of appropriate location and design that would have minimal impact on the environment and society. It will include:

i. Impacts of Location

This said project is established on land owned by proponent and not involve any disturbance in the area. There is no human settlement, heritage building, social structure, grassland or preserved area in the project vicinity that could be damaged, dislocated or dismantled due to the project activity in proposed area. Project site is located within designated and approved Industrial Estate. Hence, the impact of location is considered to be in-significant as the project site is away from the surface water body, residential area and no protected area (is reported in 5.0 km vicinity of the project area).

Nature of Impact

The nature of proposed impact will be direct, low, short-term and hence in-significant.

Mitigation Measures

Following mitigation measures has been adopted to reduce the impact of said project location on sensitive receptors:

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- The selected site located at adequate distance from the various sensitive receptors.
- The selected site is located in industrial estate and due to establishment of aforesaid project no change in the land use of area is being envisaged.
- The site is owned by the proponent and no dispute is associated.
- The wastewater will be treated prior to its disposal.
- The generated solid waste will be collected by Contractor and it will be disposed off through the standard practices of area.

It is envisaged that no mitigation measures will required as the said project had been constructed in industrial area and no adverse impacts on its surroundings due to significant distances from all sensitive receptors.

8.6 Impacts and Mitigations due to Design

The design phase of aforesaid project optimized the use of best available technology in order to prevent or minimize potentially significant environmental impacts associated with the project as well as to ensure high level business and environmental performances. In pre-construction/design phase, a management system was provided at design level for the reduction of impacts. Design of said project will adhere to all standards, technical and legal requirements in order to avoid adverse impacts on the socio-environment and human health. Efficient infrastructure will be developed. Procurement of construction materials from approved dealers will be ensured. The technology adopted for the Sugar processing Mill is state of the art technology. The process will be fully closed. This technology is adopted because of the following reasons:

- The process will take place in a fully closed system which will ensure zero emissions from the proposed plant.
- The proposed emergency system will be semi-automatic and it will control through computerized systems which will be connected with smoke alarms.
- Through the selected system high quality of product will be produced.
- The generated wastewater will be treated before final disposal through Wastewater Treatment and it can be reused in nearby agricultural lands.

The Proponent intends to reduce the environmental and social issues up to practically possible safe limit. The Client had adopted SOPs for Emergency Reponses Plan and Fire Fighting Plan which are explained in sub-sections below.

Nature of Impact

The nature of the proposed impact will be direct, low, short-term and hence in-significant.

Mitigation

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No additional mitigation measure will be required as state of art technology is being adopted for Sugar processing Mill. For the treatment of the generated wastewater, Effluent treatment plant will be installed. This generated wastewater will be treated and dispose off.

8.7 Impacts and Mitigation during Extension Phase

The site will be prepared by making temporary fencing and site analysis will be carried out to minimize the impact. Removal of interior and exterior material will be done for re-use or disposal. Best technique will be adopted for the cutting of the structure to protect environment to the extent possible with better waste management practices. All the extension work will be done under the Supervision of expert and Safety of the workers will be ensured by adopting SOPs for all jobs, training the workers to follow SOPs, discouraging any careless attitude of workers and providing the workers with and encouraging them to use PPEs.

Nature of Impact

The nature of the proposed impact will be direct, moderate, short-term and hence in-significant.

Mitigation

No additional mitigation measure will be required as the activity will be carried out under expert supervision catering all the aspects of this phase through best management practices.

8.6 Impacts and Mitigation during Construction Phase

Project construction phase activities effect land environment, water, air, noise level, soil quality, socio-economic trend of area, etc. These impacts had been controlled effectively by adopting best management practices.

By the implementation of said project, a positive impact on the socio-economic culture for the people has been observed. The chance for local employment, fabrication, brick masonry, painting and machinery erection works had been increased.

The construction phase of aforesaid project will include activities associated with the site leveling, construction of civil structures, architectural works and building services. The construction phase would bring in immediate but short term changes on various components of environment near the project site. This section explains how aforesaid project will affect different environmental aspects and its mitigation measures to manage the impact. The impacts during construction phase will be temporary and localized. Even though, the measures proposed to minimize such impacts.

i. Impacts of Dust and Exhaust Emissions

Air quality is expected to deteriorate locally mainly due to fugitive dust emission and exhaust gaseous emission from vehicular movement. This will cause short-term but moderate impacts on local environment. Soil erosion may occur in small area and they will be prone to wind erosion. Air pollutants such as; NOx, SOx and CO emissions may be generated from the working of

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construction machinery on-site which includes; hauling vehicles, loaders, trucks, mixers, etc. This machinery will generate smoke and other potential pollutants in air. This impact is considered to be negative of minor magnitude. The effect due to construction is however, of temporary nature and will have no permanent impact on environment.

Nature of Impact

The nature of proposed impact will be direct, medium, short-term and hence significant.

Mitigation

- Dust control measures are need to be taken to control the same; as the area is located in semi-arid zone having dry soil conditions and it is vulnerable to spread during high winds. Following mitigation measures will be adopted to mitigate the anticipated impact:
- Ensure that trucks carrying the raw-material should be covered by tarpaulin to reduce fugitive dust emissions.
- Water spraying/sprinkling should be done on regular basis.
- Ensure that all equipment and vehicles, used during the construction phase, are properly tuned and maintained in good working condition, in order to minimize the exhaust emissions and it will be regulated by concerned authority.
- Ensure that high quality fuel having low sulfur contents will be used in the vehicles engaged in the construction activity.
- Ensure that dust emission generated due to vehicular movement is minimized by restricted speed limit and vehicular movement impacts which will be minimized through good traffic management at site.
- Ensure that dust emission during the construction phase will be minimized by implementing best management practices.

ii. Soil Erosion and Contamination

During constructional activities the chances of soil erosion and contamination may be increased. Soil erosion from construction activities will deteriorate the soil quality. There are low chances of land contamination due to release/spill of lubricants, oil and other materials during the construction period. Erosion may also result from movement of heavy vehicle such as: bulldozers, excavators, trucks and pick-ups. The impact will be short term, localized and can be controlled through immediate appropriate management and mitigation measures. This impact is considered negative of minor magnitude. Hence, the impact is in-significant.

Nature of Impact

The nature of proposed impact will be direct, medium, short-term and hence significant.

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Mitigations

Following mitigation measures will be adopted to protect the soil from erosion and contamination:

- During construction phase no tree removal is involved however, tree plantation will be done after completion of construction at designated green areas.
- Native and fast growing trees will be planted in the designated green areas.
- Spill prevention and response plan for storage, usage and transfer of fuel should be prepared (if used on site) and implemented.
- Workers should be trained on spill prevention and response plan.
- Maintenance and washing of vehicles as well as equipment will be carried out at designated areas within the facility.
- Any hard surface or tarpaulin should be spread on area to prevent soil contamination.
- Regular inspections should be carried out to detect leakages in construction vehicles and equipment.
- Machinery involved should be maintained properly to avoid leakages.

iii. Socioeconomic Impacts

In project area, no significant changes are envisaged in traditional life style and occupation of local people residing in the nearby communities. The local people are rather benefited due to the provision of job opportunities. No impact is envisaged due to influx of workers as local will be preferred and hired for working. Moreover, health and safety related issues may arise during the construction activities. These impacts are in-significant can be further reduced significantly by adopting best management practices.

Nature of Impact

The nature of proposed impact will be direct, low, short-term and hence in-significant.

Mitigation Measures

Following mitigation measures will be adopted to reduce the socio-economic impact on the community:

- Good relations with local communities will be promoted by encouraging Contractor to provide opportunities for skilled and un-skilled employment to the locals as well as on-job training.
- The contractor should prefer hiring local labor from adjacent community
- The contractor will keep the copy of National Identity Card (CNIC) of his employees and will warn the workers not to involve in any anti-social activities
- At the time of hiring the Contractor has to ensure that workers should be of good repute.
- First aid kits will be available at site.

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- Training of workers should be carried out for operating various constructional machinery, safety procedures should be adopted, environmental awareness should be carried out, equip all workers with safety boots, helmets, gloves, protective masks and monitoring of their proper and sustained usage will be carried out. In case of accidents, contractor will provide free medical treatment to the community.
- The Contractor will be responsible for sensitivity towards the local customs and traditions.

8.7 Impacts & Mitigation during Operational Phase

This section delineates the potential impacts during operation phase of the project and the mitigation measures to counteract these impacts. The summary of the impacts and possible mitigation measures are as follows:

i. Impact on Ecology

Currently, the site is being use for industrial activities. After the completion of said project different native and ornamental plants species will be planted at designated green spaces and along boundary of project site. The overall aesthetic beauty of the area has been enhanced and it will have a significant impact on the overall ecology, aesthetic and landscape of the area.

Nature of Impact

The nature of proposed impact will be direct, low, short-term and hence in-significant.

Mitigation Measures

This impact is considered to be positive, long-term and significant. Hence, it doesn't require any mitigation measure.

ii. Impact on Air Environment

During operational phase, sources of air emissions are crushing unit, boilers and steam generators. The particulates matter are produced from the crushing unit.

Nature of Impact

The nature of proposed impact will be direct, low, short-term and hence in-significant.

Mitigation Measures

Following mitigation measures will be adopted:

- For dust suppression regular sprinkling of water will be carried out.
- Vehicles used for transportation of raw material as well as finished product and the utility vehicles will be regularly serviced and maintained in order to keep the environmental impact on account of their exhaust emissions to its minimum level.
- Cyclones are installed to control emissions from the boilers for steam generation.
- Cane crushing is done in closed space to reduce spread of particulate matter.

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- Mixing of collected ash with mud to sell to farmers/brick producers (located near site) is another suggested mitigation measure to minimize the probable impacts of fuel handling & safe ash disposal. Ash will be generated at less than 1% of baggase used as fuel in boiler.
- Native tree would be planted along the boundary of project area to keep environment healthy. For removal one tree, 3-5 trees will be planted.

iii. Noise Environment

Noise, an unwanted sound, affects human being. Excessive exposure to noise produces varying degree of damage to hearing system. It leads to headache, fatigue, etc. Continuous exposure of increased level of noise will have an adverse impact on the health of workers as well as the people residing in surrounding area.

Nature of Impact

The nature of proposed impact will be direct, low, short-term and hence in-significant.

Mitigation Measures

In general the following methods will be adopted to control the noise pollution from the above-said unit;

- Residential area is located at safe distance from project site.
- Proper encasement of noise generating sources will be done to control the noise levels within prescribe PEQS limits.
- Greenbelt will be developed all around the plant which will be acting as noise barrier.
- The use of concrete and masonry walls & barriers keeping in view the benefits of stiffness weight & cavity construction & the need to provide well sealed sound attenuating doors & windows.
- The use of complete or partial enclosures, as and if required.
- Attenuation by use of sound absorbents on walls and fixed or suspended ceilings.
- The use of mufflers, sound attenuation and acoustic louvers in air flow paths, taking particular care to direct inlet and discharge an opening away from critical areas wherever possible, so as to take advantage of direct effects.
- All the workers will be provided with ear plugs/ear muffs, masks, gloves and safety shoes as per job requirement.
- All the transporters will be advised to carry out regular maintenance of their vehicles

iv. Solid Waste Management

The solid waste generated from the sugar unit is mainly ash, mud and Bagasse. The ash will be generated from boiler. While recyclable waste sold out to contractor and domestic waste will be handles as per area practices.

Nature of Impact

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The nature of impact will be direct, low, long-term and significant.

Mitigation

Following mitigations should be adopted to manage generated solid waste:

- Mud will be sold to farmers to use as biofertilizer or cow feed.
- Bagasse is the raw material in boilers.
- Ash generated during combustion in boiler sold to brick manufacturers or will be mixed with mud cakes and used in fields.
- The recyclable waste including sold out to contractor.
- Waste bins will be placed in the facility at the strategic position for the collection of solid waste.
- The installed bins will be covered in order to reduce the chances of the disease vector production.
- Regular training will be given to the workers dealing with the waste management it will include; identification, segregation and management of waste.

v. Water consumption and wastewater production

Water requirement will be fulfilled by extracting ground water. Process Water requirement will be approx.917 ton/hr. Domestic and process wastewater will be treated through Effluent treatment plant before disposal.

Nature of Impact

The nature of impact will be direct, low, long-term and significant.

Mitigation

Following mitigations should be adopted to manage generated wastewater:

- The domestic and process wastewater will be treated through WWTP prior to final disposal.
- Water conservation activities will be adopted for the preservation of water.
- Water conserving methods will be applied by placing taps and toilets.
- All faults will be monitored and fixed.
- Freshwater conservation techniques should be adopted to ensure sustainable development
- Monitoring of effluents shall be carried out as per requirement of Self-Monitoring and Reporting Tools (SMART) to ensure compliance with the PEQS.
- It will be ensured that no solid waste will be entered in the wastewater.

vi. Occupational Health and Safety

Following health and safety impacts arise during the operational phase of the above-said project:

- Crushing

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- Slips, trips and falls on ground
- Unguarded machinery
- Hazards associated with the fire and explosion
- Noise and vibration
- Electrical burns and electric shock

Nature of Impact

The nature of proposed impact will be direct, low, long-term and hence significant.

Mitigation

The following mitigation measures are suggested that could be applied to reduce the risk of health and safety:

- Spillage prevention plan should be adopted and it should be implemented effectively.
- Workers are properly trained handling machines and equipments.
- Floor surfaces shall be maintained and cleaned on regular basis.
- Floor should be kept clean and free of oil spills, other slippery fluids or materials and obstructions.
- The effective use of hearing-protection devices shall be ensured.
- Protective measures and emergency rescue procedures should be followed strictly.
- Only authorized persons shall be allowed in the processing and industrial premises.
- Unloading of raw-material and loads of final products should be controlled, supervised, slow and smooth.

vii. Security Risks

A large number of workers will be hired including; Managers, Engineers, skilled and un-skilled laborers. The increase in number of individuals residing in area, may lead to an increase in crime and violence in surrounding areas. The nature of impact is considered to be low as the locals will be preferred for hiring.

Nature of Impact

The nature of proposed impact will be direct, low, long-term and hence significant.

Mitigation Measures

Following mitigation measures will be adopted:

- Proper security will be provided to the workers working in the premises of proposed project.
- CNIC of all the workers will be kept by the proponent.

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- Security to the workers at site should be provided.

viii. Emergency Response

Emergency response preparedness committee will be formulated consisted of heads of all the departments. Emergency Response Leader will be the head of the team assisted by safety team and safety supervisors. Emergency Response Leader along with his team will ensure that in the case of emergency, team is prepared for fire-fighting and the first aid kits will be provided which may include; blankets, hot water bottles, stretchers, benches, sterilized dressing, snake bite kit, cotton and iodine (2% alcohol). Incidents and accidents may take place unexpectedly during project operations no matter how effective, strong and efficient the mitigation measures for all adverse impacts; especially the safety issues may be adopted. These may include; accident and natural disasters.

Nature of Impact

The nature of the proposed impact will be direct, low, long-term and hence significant.

Mitigation

Following mitigation measure will be adopted:

- Site in-charge should be responsible to ensure that fire-fighting plan has been implemented with true spirit.
- Safety team will be responsible to monitor the activities and to act on approved firefighting plan in the case of fire.
- Workers should be given adequate training of handling machinery.
- Emergency call service must be made available.
- The drills to check the response of the workers against any emergency situation will be carried out on the regular basis.
- Safety and hazards signs will be displayed with the facility to avoid any unfortunate incident.
- Only authorized persons will be allowed in factory premises.

ix. Socioeconomic Impact

It is envisaged that adverse impacts associated with the said project includes; local community will be disturbed due to increase in the traffic load (i.e., vehicles carrying raw material and final products), wastewater management, soil pollution, etc. The intensity of impacts occurred due to the establishment of aforesaid project will be quite low. The commencement of aforesaid project will have a beneficial impact on the surrounding community such as; increase in employment

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opportunity, increase in wages of the local area employees, increase in revenue generation, provision of social welfare funds of employees and appreciation of land value. Moreover, the said project is located within designated and approved Industrial Estate and residential areas are at safe distance from project site.

Nature of Impact

The aforesaid impact is considered to be positive and will have a direct, medium, long term and significant impact.

Mitigation Measure

No mitigation measures will be required.

x. Health & Safety of Workers

Improper handling of machinery and unskilled labor may cause various health issues such as; work place incident and physical hazards, etc. To ensure the safety of workers these impacts need to be managed effectively.

Nature of Impact

The nature of impact will be direct, low, long-term and significant.

Mitigation

Following mitigations should be adopted to improve the health and safety:

- Regular inspection and maintenance of the plant will be carried out to eliminate the risk and associated hazards of any unfortunate incident.
- Workers will be trained on the regular basis regarding personal safety, disaster management physical and chemical hazards.
- Operators operating the plant should be fully trained and equipped.
- Training regarding HSE should be given on the regular basis.
- Workers will be given PPEs such as; helmets, mask, ear-plugs/muffs, safety boots, etc.
- It should be strictly enforced to wear PPEs while working.
- Incidents should be reported directly to the concerned authority.
- Floor surfaces shall be maintained and cleaned on regular basis.
- Floor should be kept clean and free of oil spills, other slippery fluids or materials and obstructions.
- The effective use of hearing-protection devices shall be ensured.
- Protective measures and emergency rescue procedures should be followed strictly.
- Only authorized persons shall be allowed in the processing and industrial premises.
- Unloading of the raw-material and loads of the final products should be controlled, supervised, slow and smooth.

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8.8 Potential Environmental Enhancement Measures

The said project will be result in following benefits:

- Direct and indirect employment opportunities,
- Gains in the local and national economy,
- Industrial development in region
- Tree plantation

Tree plantation along boundary of project will act as environmental enhancement measure. Indigenous and ornamental tree species will be grown on all open spaces and along boundary of project.

The environmental budget allocated for tree plantation, management & disposal of solid waste and wastewater and Environmental monitoring is approximately **PKR 10 Million** approx.

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Chapter 9

Enviornmental Managment and Monitoring Program

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9 ENVIRONMENTAL MANAGEMENT AND MONITORING PROGRAM

9.1 General

This EIA Report provides the Environmental Management and Monitoring Plan (EMMP) for implementation of aforesaid project in order to keep anticipated environmental and social impacts in check by adopting suggested mitigation measures and monitoring of the certain parameters moreover, to ensure the compliance of EMMP. As per the environmental legislation in Pakistan, the EMMP for the operations phase, along with other documents, is to be submitted in EPA, Punjab to obtain confirmation for compliance and Environmental Approval/NOC for project execution. Even after implementation of the suggested mitigation measures, the impact may remain significant and require regular environmental monitoring. This section also underlines the monitoring framework for operation phase to check compliance of EMMP and to take timely actions for correction in case any negligence & accidence of significant criteria, requirements or goals is found.

9.2 Objectives of Environmental Management Program

The primary objectives of the EMP are to:

- Facilitate the implementation of the mitigation measures identified in this EIA Study.
- Define the responsibilities of the project proponent and contractor and provide a means of effective communication of environmental issues between them.
- Identify monitoring parameters in order to ensure the effectiveness of the mitigation measures.
- Provide a mechanism for taking timely action in the face of unanticipated environmental situations.
- Identify training requirements at various levels.

9.3 Components of EMMP

Components of EMP are as follows

- Management plan
- Monitoring Plan
- Communication and documentation
- Institutional capacity
- Environmental training

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9.4 Proposed Mitigation actions During Construction Phase

It lists all the mitigation measures identified in the EIA and the associated environmental or social aspect in line during construction swith the administrative framework involving all the responsible implementing authorities who are required to take the planned actions/measures and monitor it accordingly. It enhances project benefits by reducing its impacts and making it environment friendly.

Table 19: Environmental Management Plan During Construction Phase

Project Activities	Potential Impacts	Mitigation Measure	Means of Monitoring	Frequency of Monitoring	Institutional Responsibility	
					Implementing Body	Supervision
Civil works	Soil Erosion, Emissions, Water Contamination, Noise &Vibration, Wildlife affected, Employment, Health &Safety of Workers	• Record keeping and timely transfer of SW from bins to the disposal site for ultimate management and disposal • Dust emission from soil piles and aggregate storage stockpiles will be reduced by keeping the material moist by sprinkling of water at appropriate frequency • Covering the pile, for example with tarpaulin or thick plastic sheets, to prevent emission.	Observation	Regularly	Contractor	Proponent

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		• Noise control measures will be implemented • Paved roads are already there that will be used for transportation of raw material. • Camping site will be established during construction				
Movement and fueling of vehicles	Soil &Water Contamination due to Fuel Leakages &Spillage, Emissions, Noise &Vibration	• Periodic maintenance and inspection of vehicles will be done • Vehicles with leaks will be operated after maintenance. • Vehicles should not be washed or serviced in the field.	Inspection	Regular	Contractor	Proponent
Transportation of construction material	Dust and Particulate Emissions, Noise Generation, Safety and Health Effects	• Excessive use of horns will be avoided • PPE's will be provided to workers • Covering of trucks carrying transporting material • Night time driving of project vehicles will be limited where possible	Observation Inspection	Reulagr	Contractor	Proponent

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		• Low speed limit will be maintained on the section of the access road that is adjacent to the community and site. • The fence surrounding the site will be put in on during the construction to prevent access to the construction site				

9.5 Proposed Mitigation measures During Operational Phase

The mitigation measures identified in the EIA and the associated environmental or social aspect during operational phase with the administrative framework involving all the responsible implementing authorities who are required to take the planned actions/measures and monitor it accordingly. It enhances project benefits by reducing its impacts and making it environment friendly.

Table 20: Environmental Management Plan During Operational Phase

Project Activities	Potential Impacts	Mitigation Measure	Means of Monitoring	Frequency of Monitoring	Institutional Responsibility	
					Implementing Body	Supervision
ewater managemen t	Degradation of water quality	• Wastewater generated from process activities will be treated through WWTP (Layout is attached as Annex-)	• Temp • pH • COD • BOD • TSD	Monthly	Environment officer	Proponent

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		• Monitoring of treated wastewater carried out • After treatment dispose off in Lamma Disty (copy of bill is attached as Annex-) .	• TTS • Oil & Grease			
Air quality management	Dust and PM	• Cyclones are installed at boilers to control air emissions • Control measures have taken to control the matriculate matter. • Regular monitoring of ambient air and maintenance of machinery should be done on regular interval.	• SOx • NOx • CO • CO2 • PM • Smoke	Monthly	*Environment officer*	*Proponent*
Noise generation	Psychological and hearing problems	▪ There will be ban on the use of horn in the area. ▪ Vehicular movement has been properly planned to avoid noise problems. ▪ Proponent has planned a proper plantation plan which will also act as barrier for noise.	Noise level	Daily	Environment officer	Proponent

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Solid Waste Generation	Soil Contamination, effecting GW Quality, vectors production, odor, Health, Welfare	• Bagasse will be reused as fuel in boilers • Molasses produced will be sold to contractors • The solid waste from the project should not be allowed to pile up. • Solid waste should be disposed off properly as per local practice • Mud will be sold to local vendors • Recyclable waste should be dispose off through certified contractor • Ash produced from boiler will be sold to contractor.	Proper monitoring Of storage area	As per SOPs.	Environment officer	Proponent
Health and safety	Injury may happen while handling machines	• Personal Protective equipments (PPE's) i.e. cups, ear muggles, surgical masks, gloves and sanitizers will be provided to the workers • Warning signs will be placed in local language. • Fire drills training has been carried to avoid	• Medical surveillance of workers • Fire drills on regular basis • Good house keeping	As per OSHA standards	HSE Manager	Proponent

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		hazards • First aid kits and other necessary equipment will be kept available at site. • Dange larve eradication has been done • COVID-19 SOP's must be implemented				

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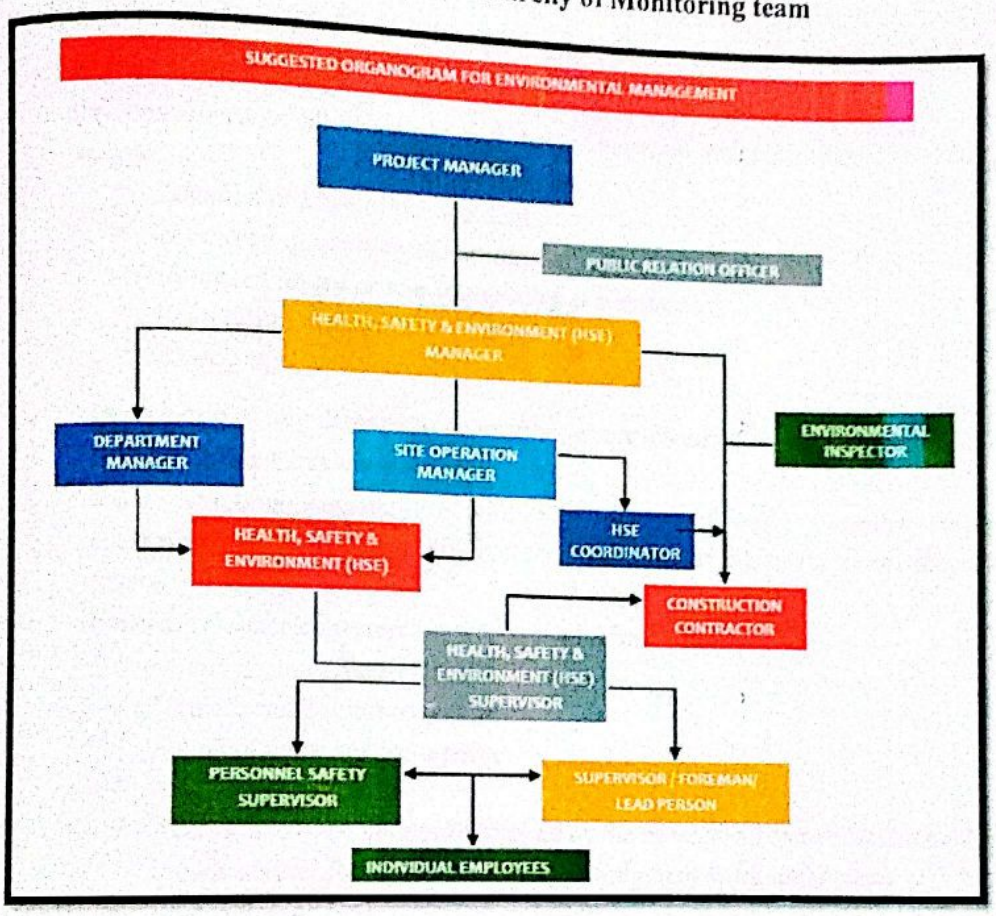
9.6 Schedule for Implementation of Environmental Budget

The allocated environmental budget is **PKR 10 Million approx.** The allocated environmental budget will be spent on landscape/green zone management, Environmental Monitoring, solid waste management and wastewater management. The proponent will plant indigenous and ornamental plants to increase the aesthetic value of the area. Thus, the project is also a source of employment for locals and would help in economic development activities of the area.

9.7 Environmental Management Team along with their roles and responsibilities

The primary responsibility for implementing different aspects of the EMP within the company lies with the concerned departments of JDW Sugar Mills Limited. Unit-II

Table 21: Proposed Hierarchy of Monitoring team



9.8 Proposed Monitoring program

Environmental monitoring is a vital component of the Environmental Management Plan. It is the mechanism through which the effectiveness of the EMP in protecting the environment is measured. The feedback provided by the environmental monitoring is instrumental in identifying any

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problem or lapse in the system under implementation and planning corrective actions. For domestic activities already constructed facilities will be used. Solid waste disposal will be according to standard practices of area. It should be noted that it is difficult to outline a formal monitoring protocol for specific environmental parameters and key impacts until detailed project design have been completed. The main objectives of the environmental monitoring are:

- To provide a mechanism to determine whether the project construction contractors are carrying out the project in conformity with the EMP.
- To identify areas where the impacts of the project are exceeding the criteria of significance and, therefore, require corrective actions.
- To document the actual project impacts on physical, biological, and socio-economic receptors, quantitatively where possible, in order to design better and more effective mitigation measures.

Following environmental record should be maintained:

- Periodic inspection reports of the site
- Incident record of all moderate and major incidents and accidents. The record will include:
  - ✓ Location or limit of the accident
  - ✓ Estimated quantity or the amount of injury
  - ✓ Nature of injury or loss (temporary or permanent)
  - ✓ Restoration measures
  - ✓ Photographs
- Description of any damage to vegetation, water resource, or community asset.
- Corrective measures taken, if any
- Waste Tracking Register that will hold records of waste generated during the construction period. This will include quantities of waste disposed, recycled, or reused.
- Records of water consumption with use wise breakdown
- Survey reports, in particular, the following:
  - ✓ Vehicle and equipment noise.
  - ✓ Ambient noise survey reports.
  - ✓ Ambient level of PM
  - ✓ Vendor data—all vendors disturbed by the project and compensation paid Public infrastructure: Record of all damages and repair work undertaken.
  - ✓ Employment
  - ✓ Total number of unskilled, semi-skilled, and skilled jobs offered during Construction.
  - ✓ Name and domicile of the employed staff.
  - ✓ Project and Community Interface
  - ✓ Record of community complains and the measures taken to address them.

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- ✓ Number of meetings held in various communities and data of persons who attended.

9.9 Proposed EMP reporting and reviewing procedures

During construction, EMP reporting and reviewing will be done by the contractor/HSE department. Following steps will be taken during reporting and reviewing of EMP.

1. **Data recording and maintenance:** All forms that will be used for monitoring will be numbered and a tracking system will be developed for each. In this manner, it will be ensured that all forms are returned to the office, be filled, unused or discarded.
2. **Storage of information:** A database will be prepared for collecting the information during the project. The database may include information on training programs, non-compliance, corrective actions and results of monitoring. It will also contain photographic records of project site.
3. **Site Monitoring:** Quarterly Monitoring will be done by monitoring team as per SMART Rules and will be reviewed by concerned. The parameters that will be measured are given below.

Sampling	Parameters
Ambient Air Quality	SO2, NO, O3, NO2, CO, PM2.5, PM10
Drinking Water	TDS, pH, Color, Taste, Odor, Total Hardness as CaCO3, Turbidity.
Noise Level	Area Mid-Point

Afterward, monitoring reports will be submitted in EPA as per condition of Environmental Approval of construction phase.

Furthermore, recorded data will be reviewed by supervisory so that it can be further improved if required.

9.10 Environmental Training

Training is an integral part of a preventive strategy. Environmental and disaster management training will be required to ensure proper implementation of effective environmental management and monitoring plan; and disaster management plan. However, training could be organized by proponent involving relevant staff. As a trainer, competent Consultant can be outsourced. Important training under the spectrum needs to include:

- Training on fire fighting and safety management;
- Training on environmental safeguards and compliance;
- Staff training on environmental monitoring and reporting;
- Training on occupational health and safety measure.

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Table 22: Training Schedule

Target Audience	Trainers	Contents	Schedule
Selected Management Staff	Subject Expert	Key finding of mitigation measure	After every five months
All Personnel	HSE Officer	Mitigation measures especially firefighting, safety, health and environment (emissions & discharges) etc.	Monthly
Technical Staff	HSE Officer	Waste disposal, vehicle movement restriction and other mitigation measures	After every three month
Other Staff	HSE Officer	Waste disposal, resource conservation and other mitigation workers	Monthly

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Chapter 10

Public Consultation and Public Disclosure

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10 PUBLIC CONSULTATION AND PUBLIC DISCLOSURE

10.1 General

Public consultation refers to the process by which the concerns of various stakeholders and local community who have a plausible stake in the environmental management & associated impacts of the project or activity are ascertained with a view to taking into account all the material concerns in the project or activity design as appropriate. According to the Review of IEE and EIA Review Regulations, 2022 public consultation is mandatory for any socio-environmental study for the commencement of any project.

Impact assessment survey and public consultation sessions held with different stakeholder groups that may be impacted by this project commencement were carried out. The consultation process was carried out in accordance with the guidelines laid by EPA, Punjab. The objectives of this process were to:

- Share information with stakeholders on proposed project establishment.
- Access the impacts on the physical, biological and socio-economic environment.
- Understand stakeholder concerns regarding various aspects of the project commencement.
- Note valuable suggestions of local stakeholders to improve the proposed project design.
- Understand the perceptions, assessment of social impacts and concerns of the affected people/communities of the project area.
- Find out the awareness level and situation of acceptability to identify any issues for the implementation of the proposed project.
- Invite people to express their views about the positive/negative impacts on their lifestyles and environment.
- Disclose information about contact offices/officers for any complaints/queries.

It is envisaged, there will be no social impact being foreseen due to the commencement of aforesaid project at aforesaid location, the nearest community is located at 0.4 km aerial distance (Nahla) from the project area. This EIA Report includes all the comments, which were taken into account during the social survey and preparing the definitive development concept for the installation and operation of proposed project. Public consultation questionnaires and consultation with Govt official are attached as **Annex-XII** of this EIA Report.

10.2 Consultation with Government officials

Consultation regarding Environmental Impact Assessment of JDW Sugar Mill Limited Unit (22,000TCD) was carried out with Government officials, Concerns of locals, Environmental Practitioners & experts and Government departments were discussed and asked to consider them while construction of above-said project. Locals will be preferred for employment after providing proper training, Mitigations measures mentioned in EMP will be truly implemented.

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10.3 The responsible authority

Overall responsibility for implementation of EMP will be of project proponent. He will appoint a HSE/Project Manager of relevant qualification. HSE/Project Manager will act as

10.4 Consultation with Affected and wider community

In addition, to the use of direct methods to evince the response of the various stakeholders in targeted population residing in study area was ascertained by conducting a sample survey, through specially formatted questionnaires (attached in the Annex-XI of this EIA Report). Questions posed to the public were related to creation of possible impacts, adverse impacts and beneficial impacts, including; employment opportunities, income generation activities, change in living standards and provision of the basic amenity.

Personal views of the respondents on the establishment of above-mentioned unit by JDW Sugar Mills Limited. Unit-II, possible disturbance to the residents near the AOI and infringement of their privacy were also recorded. The various rounds of public meetings and consultations were arranged in project and study area. The objectives of consultation with the affected persons are given in the table below:

- Disclose the proponent plan for the construction/operation of said facility.
- To share information on the design and specifications of project works.
- To analyze the expected impact on the socio-economic environment.
- To understand their concerns regarding various aspects of project commencement.

10.5 Views, Concerns and Suggestions of Various Stakeholders

The major socio-economic concerns and problems of the affected persons of various communities have been given in tabulated form below (Table 24) along with their main concerns and remarks.

Table 23: Consultations with Government Officials

Sr. No	Name and Contact number	Designation and Department	Concerns Remarks
1.	Muhammad Ammas 0308-1891805	Sub Divisional Officer Irrigation Department	• This project should be implemented however, guidelines of Government should be adhered as per law and policy in true spirit. The project be implemented under joint supervision of this department.

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2	**Malik Muhammad Farooq** **0308-6537639**	Director Labour welfare Labour and Human Resource Department	• The instant project of enhancement of crushing capacity as per laws and policy of Government is appreciable as the same will add and create employment opportunity for local are residents. However the labour laws are to be implemented in letter n sprit in a bit to ensure health and safety of employed welfare is to safe guard their economic instants. It will also add to economic well-being of area.

Community showed a lot of concerns; a few are being mentioned here:

- Removal of shrubs and trees should be avoided to the extent possible in the case of clearance green zones should be established within the facility.
- Indigenous tress around the facility should be planted to control air pollution and as the compensation of removed trees.
- The project will become the source of income for local to earn their livelihood easily and honorably, so locals should be preferred.
- The area will inhabit and will be used for the beneficial purposes.
- For the solid waste management and waste disposal, proper disposal techniques should be adopted.
- Water spraying/sprinkling should be done on the regular basis for dust suppression.
- Employment opportunities will be generated and locals should be hired on the priority basis.
- The air pollution is one of the major impact from which Punjab is being affected at the large scale. So, ambient air quality should be monitored regularly and air pollution expected to generate from the operation should be mitigated beforehand.
- Good relations with the local communities will be promoted by encouraging Contractor to provide opportunities for skilled and unskilled employment to the locals as well as on-job training.
- Noise generated activities should be carried out during day hours.

The views and the concerns of the local communities, direct and indirect stakeholders has been complied and are presented in the tabular form below:

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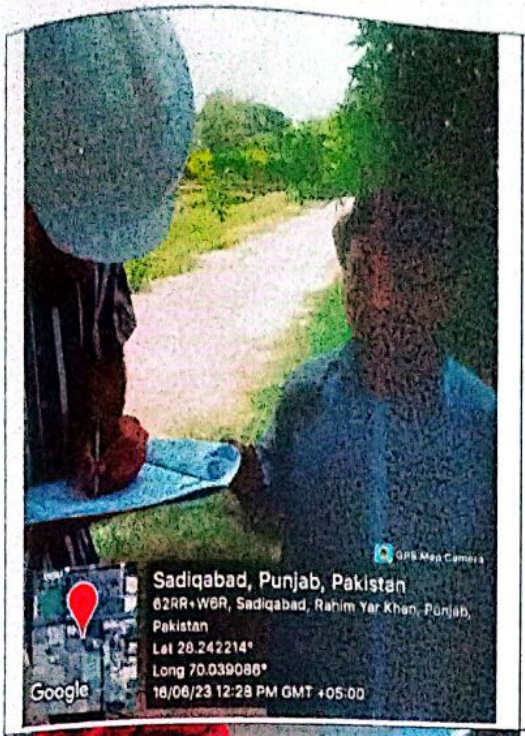
Table 24: Views and Concerns of Stakeholders

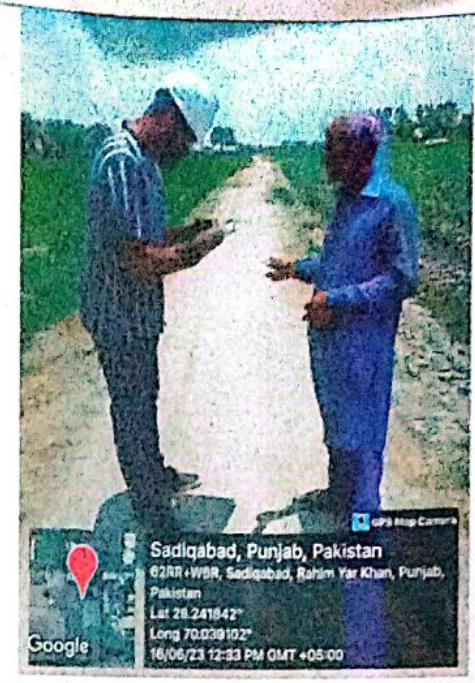
Sr.#	Respondents	CNIC/Contact No.	Concerns
i.	M. Ashraf	31303-2414816-7	During the survey in the study area following concerns of the local community were noted: Locals should be preferred for the job opportunities. Wastewater should be treated prior to final disposal. – Noisy activities should be confined. – Solid waste should be managed effectively by adopting the standard practices of the area. – Cleanliness of the area should be ensured. – An effective EMMP should be designed and enforced with true spirit. – Health of the workers should be ensured. – Plantation should be carried out at extensive scale. – Workers should be hired from local community. – Indigenous tress around the facility should be planted to control air pollution.
ii.	M. Amin	31304-9782475-5	
iii.	Jam Ranjha	31304-8945329-3	
iv.	M. Akram	31304-1308589-3	
v.	Shah Muhammad	31304-5958823-9	
vi.	Malik Shahzad	31304-0151382-1	
vii.	M. Jameel	31304-2045822-1	
viii.	M. Hanif	31304-0281195-9	
ix.	Shafique Ahmed	31304-8940216-7	During the survey in the study area following concerns of the local community were noted: – Locals should be preferred for the job opportunities. – Wastewater should be treated prior to final disposal. – Noisy activities should be confined. – Solid waste should be managed effectively by adopting the standard practices of the area. – Cleanliness of the area should be ensured.
x.	Rafaqat Irshad	31304-7978874-5	
xi.	Jamil Ahmed	31304-2061233-5	

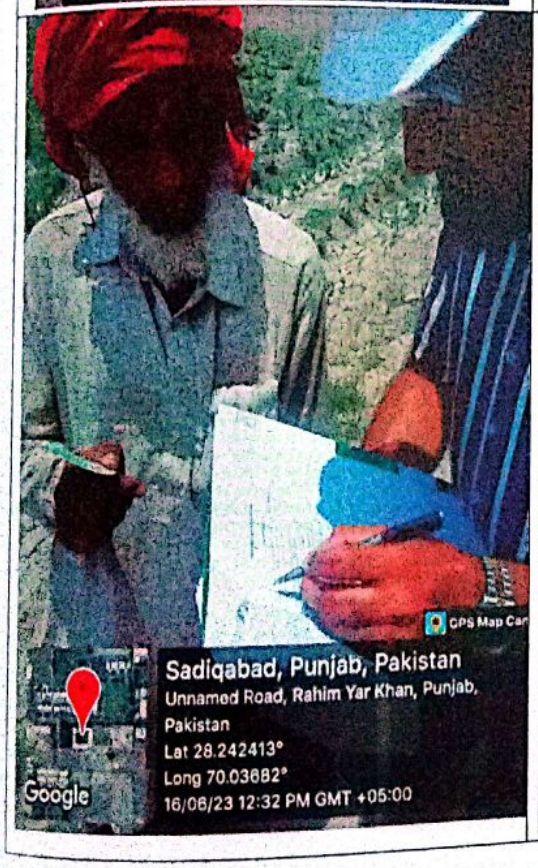
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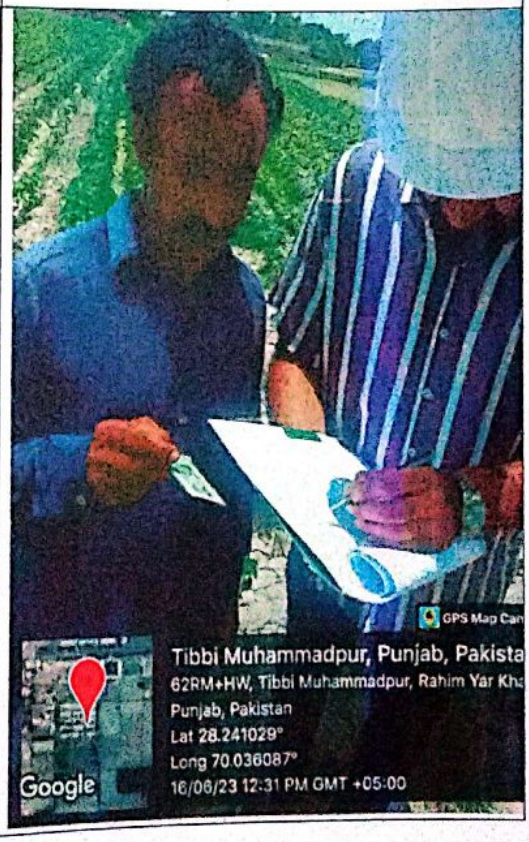
xii.	Haji Hazoor Uddin	31304-5883166-7	– An effective EMMP should be designed and enforced with true spirit. – Health of the workers should be ensured. Plantation should be carried out at extensive scale. Workers should be hired from local community. – Indigenous tress around the facility should be planted to control air pollution. s
xiii.	Riaz Ahmed	31304-1398841-1	
xiv.	Ejaz Ali	45404-0380414-5	
xv.	Khawand Bakht	31304-8653311-1	
xvi.	Syed Esan Shab	31304-5940961-7	
xvii.	M. Amjad	31304-8715233-1	
xviii.	Sadam Hussain	31304-8205906-7	
xix.	Nazir Ahmed	31304-1822488-1	
xx.	M. Amir	31304-1899421-7	

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Figure 15: Consultation with Local People of Area

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LIST OF ANNEXURES

Annex-I	Proponent CNIC
Annex-II	Land Ownership Documents
Annex-III	Certificate Of Incorporation
Annex-IV	Regularisation Letter from Industries Department
Annex-V	Copy of Effluent Discharge Bill
Annex-VI	Copy Of Contract for Ash sale
Annex-VII	Copy Of Contract for Mud Sale
Annex-VIII	Copy Of Contract for Molasses Sale
Annex-IX	Process Flow chart
Annex-X	ETP layout and Effluent Monitoring Reports
Annex-XI	Validated Baseline Lab Monitoring Reports
Annex-XII	Socio-Economic Survey Forms
Annex-XIII	NEPRA Approval for Co generation Power Plant
Annex-XIV	Drawing and Emission Monitoring Reports of Cyclones
Annex-XV	Authority Letter In Favor Of Proponent
Annex-XVI	Authority Letter In Favor Of Consultant

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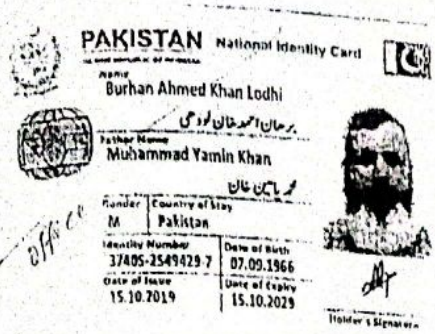
Annexe XVII → References

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ANNEX-I

Proponent
CNIC

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PAKISTAN National Identity Card

Name
Burhan Ahmed Khan Lodhi

برہان احمد خان لودھی

Father Name
Muhammad Yamin Khan

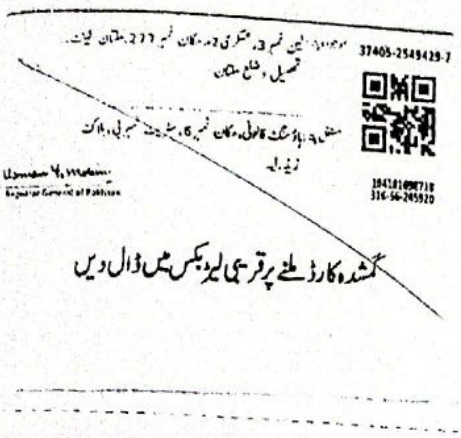
محمد یامین خان

Gender	Country of Stay
M	Pakistan

Identity Number	Date of Birth
37405-2549429-7	07.09.1966

Date of Issue	Date of Expiry
15.10.2019	15.10.2029

Holder's Signature



37405-2549429-7

گمشدہ کارڈ ملنے پر قریبی لیٹر بکس میں ڈال دیں

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ANNEX-II

Property Documents

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نقل رجسٹر حقداران زمین (مسل میعادی)

عدالت جمال الدین والی — طرف ارج — شادو — تحصیل صادق آباد — ضلع رحیم یار خان — سال 2019-20 — کتاب نمبر — ورق نمبر 28 / 29

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر گھوٹ نقشہ	نمبر گھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت		نوعیت حقوق مالک رائجن مرتجن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت وار اور میزان گھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چوہدا اجباد وغیرہ	کاشتکار جو کاشتکار ہو اگر تبدیلی ہے شرح مدت مطالبہ	مطالبہ معہ تفصیلات مالیہ و جوب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ زمین

نمبر کھیوٹ	مرچ نمبر	خسرہ نمبران	خسرہ پیمائش	پیمائش	جملہ
3	183/6	1, 10, 11, 12, 13, 14, 17, 18, 19, 2, 20, 21, 22, 23, 24, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	183/6	1, 10, 11, 12, 13, 14, 18, 2, 20, 21, 22, 3, 4, 5, 8	1,757,280	فی ایکڑ	لنک روڈ
313	165/5	14غربی, 17شمالی, 18الف, 23, 2غربی, 7غربی, 8, 9, 12, 13	1,757,280	فی ایکڑ	آف روڈ
313	165/5	17شمالی, 18الف, 8, 12	1,757,280	فی ایکڑ	لنک روڈ
313	182/4	12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25	1,757,280	فی ایکڑ	آف روڈ
313	182/4	12, 13, 14, 15, 16, 17, 18, 19, 22, 23, 24, 25	1,757,280	فی ایکڑ	لنک روڈ
313	182/8	7الف, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 8, 9	1,757,280	فی ایکڑ	آف روڈ
313	182/8	7الف, 13, 17, 18, 19, 20, 21, 22, 23, 24	1,757,280	فی ایکڑ	لنک روڈ
313	183/1	12, 13, 14, 15, 16, 17, 18, 19, 2, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
313	183/1	12, 13, 15, 16, 17, 18, 22, 23, 24, 3, 4, 5, 6, 9	1,757,280	فی ایکڑ	لنک روڈ

نقل مطابق اصل ہے — نام درخواست کنندہ: ارحم شوکت ولد شوکت علی

فرد جاری کنندہ کی دستخط — قوم آرائیں

شناختی کارڈ نمبر: 3130492579546



نام اجراء کنندہ: اصغر ندیم لعل سردار محمد

تاریخ و وقت پرنٹنگ: 12/06/2023 15:42:44

تاریخ فرد اجراء: 12/06/2023 15:21:27

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

اراضی ریکارڈ سنٹر صادق آباد-DMM

فرد فیس: 700

فولیو نمبر: 1029

تاریخ ٹوکن اجراء: 12/06/2023 15:20:26

فرد آئی ڈی: 0-00-00-034-00-00-00-0019569816

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نقل رجسٹر حقداران زمین (مسل میعادی)

سال 2019-20 کتاب نمبر ورق نمبر

ضلع رحیم یار خان تحصیل صادق آباد طرف ارچ ندوہ حال عمال دین وطن

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ / نمبر	نمبر کھتونی / کاشتکار	کاشتکار					ولدیت / شوہر / ولدیت شوہر / سکونت	نمبر شمار (اگر کوئی ہو)	نام حقدار (مع ولدیت)	رقبہ، نمبر جس کھیوٹ واقع ہے، حدود، کھیوٹ نمبر، کھتونی نمبر، کاشتکار، کھیوٹ نمبر	سال کی پیداوار	کیفیت واگزشت فرع / کیفیت واگزشت اصل	کیفیت سند (1۔ نام انتقال 2۔ نام تبدیلی)

نمبر کھیوٹ	مرلہ نمبر	خسرہ نمبران	خسرہ ایلیمنٹس	کل	تفصیل
313	183/2	2, 3, 4, 5 کاف	1,757,280	ایکڑ	نقل ہذا
313	183/2	2, 3, 4, 5 کاف	1,757,280	ایکڑ	نقل ہذا
313	183/5	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 3, 4, 5, 6, 7, 8, 9	1,757,280	ایکڑ	نقل ہذا
313	183/5	12, 13, 15, 16, 2, 20, 21, 22, 23, 24, 3, 6, 7, 8, 9	1,757,280	ایکڑ	نقل ہذا

630-12-0 ہزار کل رقبہ سکے

137,209,445.00 کل کیسے خسرہ ایلیمنٹس

DELHI MARKAZ MALL Circle Said Pur

ادائیگی 042-00-004-00-00-00-0019566616 فیس حلقہ ہذا سے ادا کی گئی ہے

DMM-413 سال 12/08/2023 15:42:44 12/08/2023 15:21:27 700

3130492579546

درخواست دہندہ

نام گواہان

دستخط / انگوٹھا

فردی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی | طرف/پتی عدد | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 کتاب نمبر | ورق نمبر 29 | 12

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص بہ قبضہ مطابق حصہ	زرعی اراضی بک نمبر	نام کاشتکار معہ ولدیت	نمبر خسرہ معہ نام اگر کوئی ہو	نوع قسم زمین ملکیت داراور بیرون کھتونی کاشتکار، کھیوٹ مالک	سوال آبیانی معہ نام چندہ اجباء نمبر	کیفیت معافی یا کرتبہ شرح معافی	مطالبہ معہ تفصیلات واجب وصولی	کیفیت معہ 1-سبب نمبر و (اگر کوئی ہو) 2-شرح آبیانہ
3 مذکور	10 ج 15 مذکور												نمبر انتقال 2059 حسم انتقال بیع جبری نمبر انتقال 2139 حسم انتقال جداسد مدعی قبضہ 2012/05/09 نمبر انتقال 2147 حسم انتقال وقف نامہ مدعی قبضہ 2012/06/18 عہد نامہ نمبر 54 مدعی قبضہ 23/12/2013 نمبر انتقال 2429 حسم انتقال وراثت مدعی قبضہ 2016/06/20 نمبر انتقال 2430 حسم انتقال وراثت مدعی قبضہ 2016/06/20

نقل مطابق اصل ہے | نام درخواست کنندہ ارحم شوکت ولد شوکت علی | فرد برائے ذاتی ریکارڈ | قوم آرائیں شناختی کارڈ نمبر 3130492579546

نام اجراء کنندہ | مہر تاریخ دستخط | مہر تاریخ اجراء



اصغر ندیم ولد سردار محمد | 12/06/2023 15:42:44 | 12/06/2023 15:21:27

کمپیوٹرائزڈ نقل ہے دستخط کی ضرورت نہیں ہے

فرد فیس 700 | ڈاک خرچ 1029

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

DMM-آباد صادق | اسٹمپ ریکارڈ | واجبی ریکارڈ

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نقل رجسٹر حقداران زمین (مثل میعادی)

ضلع رحیم یار خان　تحصیل صادق آباد　طرف اپیل عدد　حوالہ جات دیگر

ورق نمبر 29 / 11　سال 2019-20　کتاب نمبر

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	مقبر کھتونی کاشتکار	کوائف مالک: نام ولد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار مع احوال	نمبر خسرہ مع نام اگر کوئی ہو	رقبہ و قسم زمین کھیت واروار میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی مع نام چاہ راجباہ وغیرہ	کان جو کاشتکار ہو اکرتا ہے شرح اور مطالبہ	مطالبہ مع تفصیلات مالیہ و حبوب	کیفیت مع 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ زمین
3 مذکور	10 ت 15 مذکور												نمبر انتقال 2046 قسم انتقال فک الرہن رجسٹری نمبر انتقال 2051 قسم انتقال فک الرہن رجسٹری نمبر انتقال 2044 قسم انتقال فک الرہن رجسٹری نمبر انتقال 1909 قسم انتقال وقف نمبر انتقال 2058 قسم انتقال فک الرہن رجسٹری نمبر انتقال 1921 قسم انتقال فک الرہن نمبر انتقال 1922 قسم انتقال فک الرہن نمبر انتقال 2047 قسم انتقال فک الرہن رجسٹری

نقل مطابق اصل ہے　نام درخواست کنندہ　ارحم شوکت ولد شوکت علی

فرد برائے ذاتی ریکارڈ　قوم آرائیں

شناختی کارڈ نمبر　3130492579546

نام اجراء کنندہ　اسفندیم ولد سردار محمد

تاریخ فرد پرنٹنگ　12/06/2023 15:42.44

تاریخ فرد اجراء　12/06/2023 15:21:27



فرد آئی ڈی　0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

ادائیگی ریکارڈ سنٹر　صادق آباد-DMM

فرد فیس　700

ٹوکن نمبر　1029

تاریخ ٹوکن اجراء　12/06/2023 15:20:26

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فرد کی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی　　طرف/پتی ندارد　　تحصیل صادق آباد　　ضلع رحیم یار خان　　سال 2019-20 کتاب نمبر　　ورق نمبر 29 / 25

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق زرعی پاس بک نمبر		نام کاشتکار معہ اوصاف	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت دار اور میزان کھتونی کاشتکار و کیفیت مالک	وسائل آبپاشی معہ نام چاہ/راجباہ نمبرہ	کیفیت معہ کان یا کاشتکار ہوا کرتا ہے شرح اور مطالبہ	مطالبہ معہ تفصیلات مالیہ و جیب	کیفیت معہ 1-نام نمبر ہو (اگر کوئی ہو) 2-شرح مالیہ زمین

نمبر کھیوٹ	مرقع نمبر	خسرہ نمبرات	خسرہ بلیچ بیگھ	چاہ/نل	جگہ
3	164/5	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757.280	نی ایکڑ	آف روڈ
3	164/5	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 2, 20, 22, 23, 24, 25, 3, 5, 6, 7, 8	1,757.280	نی ایکڑ	لنک روڈ
3	164/6	1, 2, 3, 4, 5	1,757.280	نی ایکڑ	آف روڈ
3	164/6	1, 2, 3, 4, 5	1,757.280	نی ایکڑ	لنک روڈ
3	164/8	1, 10, 2, 3, 4, 5, 7, 8, 9	1,757.280	نی ایکڑ	آف روڈ
3	164/8	1, 10, 2, 3, 4, 5, 7, 8	1,757.280	نی ایکڑ	لنک روڈ
3	164/9	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757.280	نی ایکڑ	آف روڈ
3	164/9	1, 11, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 23, 24, 3, 4, 5, 6, 8, 9	1,757.280	نی ایکڑ	لنک روڈ
3	165/7	23	1,757.280	نی ایکڑ	آف روڈ

نقل مطابق اصل ہے　　نام درخواست کنندہ ارحم شوکت ولد شوکت علی

فرد برائے ذاتی ریکارڈ　　قوم آرائیں

شناختی کارڈ نمبر 3130492579546

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

پیمونٹ/لنک وستخط کی ضرورت نہ ہے۔

اصغر ندیم ولد مرزا محمد

۱۸ اشی ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

ڈاک نمبر 1029

نام افسر کنندہ

ہمرتاج فرد پرنٹنگ

ہمرتاج فرد اجراء

12/06/2023 15:42:44

12/06/2023 15:21:27



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نقل رجسٹر حقداران زمین (مسل میعادی)

ضلع رحیم یار خان　تحصیل صادق آباد　سال 2019-20　کتاب نمبر　ورق نمبر 26 / 29

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ / لنک	نمبر کھتونی / کاشتکار	کوائف مالک: نام مالک معہ نام والد / خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت دار اور میزان کھتونی کاشتکار و کھیوٹ / لنک	وسائل آبپاشی معہ نام چاہ و راجباہ وغیرہ	مطالبہ معہ تفصیلات واجب	کیفیت معہ 1 - نمبر فہرد ہر (اگر کوئی ہو) 2 - شرح مالیہ زمین

نمبر کھیوٹ	مرلہ نمبر	خسرہ نمبران	خسرہ ایجریشن	کنال	جگہ
3	165/7	23	1,757,280	فی ایکڑ	لنک روڈ
3	165/8	18	1,757,280	فی ایکڑ	آف روڈ
3	165/8	18	1,757,280	فی ایکڑ	لنک روڈ
3	166/6	10, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	166/6	4, 7, 8	1,757,280	فی ایکڑ	لنک روڈ
3	167/10	7, 9	1,757,280	فی ایکڑ	آف روڈ
3	167/10	9	1,757,280	فی ایکڑ	لنک روڈ
3	182/4	11, 20, 21	1,757,280	فی ایکڑ	آف روڈ
3	182/4	11, 20, 21	1,757,280	فی ایکڑ	لنک روڈ
3	182/7	12, 18, 19, 2, 9, 22الف	1,757,280	فی ایکڑ	آف روڈ
3	182/7	12, 19, 9	1,757,280	فی ایکڑ	لنک روڈ

نقل مطابق اصل ہے　ہمراہ درخواست کنندہ

فرد برائے انتقال نمبر دیکارڈ　قوم آرائیں

شناختی کارڈ نمبر　3130492579546

ارحم شوکت ولد شوکت علی



نام اجراء کنندہ　اسسٹنٹ نیم ولد سردار محمد

تاریخ فرد پیش　12/06/2023 15:42:44

تاریخ فرد اجراء　12/06/2023 15:21:27

فرد آئی ڈی　0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہ ہے۔

ادائیگی ریکارڈ سنٹر　صادق آباد-DMM

فرد فیس　700

ٹوکن نمبر　1029

تاریخ ٹوکن اجراء　12/06/2023 15:20:28

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۱۰	۹	۸	۷	۶	۵	۴	۳ (د)	۳ (ج)	۳ (ب)	۳ (الف)	۲	۱
کیفیت مع 1 - نام نہر/رود (اگر کوئی ہو) 2 - شرح لیوی زمین	مطالب مع تفصیلات واجبہ وسیوب	مکان جو کاشتکار اختیار کرتا ہے شرح اور مطالب	وسائل آبپاشی مع نام چاہ، راجباہ وغیرہ	نوعیت و قسم زمین کھیت وار اور میزان گستوانی کاشتکار، کھیوٹ مالک	نمبر نمبر وار مع نام اگر کوئی ہو	نام کاشتکار مع اخراجات	آب پاشی زرعی پانی بک نمبر	مخصوص رقبہ مطابق حصہ	مشترکہ کھاتہ میں مخصوص حصہ	جملہ حقوق مالک داخلی مرتبن	جملہ مالک مع نام، ولدیت، قوم اور سکونت	نمبر شمار

جگہ	کیفیت	عشرہ لیویں	عشرہ نمبروار	مربع نمبر	نمبر کھیوٹ
آف روڈ	فی ایکڑ	1,757,280	10, 2, 3	182/8	3
لنک روڈ	فی ایکڑ	1,757,280	3	182/8	3
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 20, 21	183/1	3
لنک روڈ	فی ایکڑ	1,757,280	1, 10, 11, 20, 21	183/1	3
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 5, 6, 7, 8, 9	183/2	3
لنک روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 6, 7, 8, 9	183/2	3
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 2, الف، 9, 8, 7, 4, 3, 25, 24, 23, 22, 21	183/3	3
لنک روڈ	فی ایکڑ	1,757,280	1, 10, 12, 13, 14, 15, 16, 18, 23, 22, 21, 20, 2, الف، 9, 8, 4, 3, 24	183/3	3

اصل ملاحظہ ہو — درخواست کنندہ — ادھم خوکت ولد خوکت علی

فرد برائے ذاتی ریکارڈ — قوم آرائیں — شناختی کارڈ نمبر 3130492579546

ہاتھ انگوٹھا کنندہ

ہمراہ گواہ نمبر 1

ہمراہ گواہ نمبر 2

12/06/2023 15:21:27

12/06/2023 15:42:44

اسٹامپ فروش مہر و دستخط

لیٹر ہیڈ/ٹائٹل/سٹامپ کی ضرورت نہیں ہے۔

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

راجی ریکارڈ اسٹنٹ سوفٹ آپ DMM-

فرد نمبر 700

ٹوکن نمبر 1029

ہمراہ ٹوکن ہولڈر 12/06/2023 15:20:26

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سال 2019-20 کتاب نمبر ... ضلع ... تحصیل ... حلقہ ... فصلی سال 1423

10	9	8	7	6	5	4	3	2	1	1	2
کیفیت نمبر 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح پانی زمین	تخمینہ وصولی تعلیہ و تحصیلات	کیفیت بنجر کاشتکار اور مطالبہ	سال آبپاشی حصہ نام چوہدراہیہ وغیرہ	قریہ و قسم زمین کھیت وار اور بیرون کھتونی کاشتکار و کھیوٹ بانگ	نمبر خسرہ و حصہ نام اگر کوئی ہو	ہم کاشتکار حصہ احوال	نوعیت ملک نام حصہ ملک ہمراہ ولدیت قوم اور سکونت	ملکیت کل یا حصہ وراثت مرحومان	شفع کی کیفیت میں تصوص حصہ	تقسیم در قبہ مطابق حصہ	نمبر شمار پاس بک نمبر	نمبر کھتونی کاشتکار	نمبر شمار
												15 مذکور	ج 15 مذکور	3 مذکور

نمبر انتقال 2432 قسم
انتقال ہبہ تاریخ فیصلہ
2016/06/23
نمبر انتقال 2433 قسم
انتقال ہبہ تاریخ فیصلہ
2016/06/23
نمبر انتقال 2435 قسم
انتقال ہبہ تاریخ فیصلہ
2016/06/23
نمبر انتقال 2458 قسم
انتقال ہبہ تاریخ فیصلہ
2016/10/04
نمبر انتقال 2321 قسم
انتقال ہبہ تاریخ فیصلہ
2015/12/28

تصدیق اصل ہے — ہمراہ درخواست کنندہ — ارجم شوکت ولد شوکت علی

فرد برائے ذاتی ریکارڈ — قوم آرائیں

شناختی کارڈ نمبر 3130492579546



ہمراہ آنے والا — اصغر ندیم ولد مراد محمد — 12/06/2023 15:42:44

ہمراہ آنے والا — 12/06/2023 15:21:27

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

مال ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

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ورق نمبر 14 / 29 کتاب نمبر 2019-20 سال ضلع رحیم یار خان تحصیل ۔۔۔۔۔ طرف (ز) ۔۔۔۔

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر شمار	نمبر تحصیل بلاک	کھاتہ بلاک نام بلاک معہ ولد/ہمراہ و قوم اور سکونت	ثبوت حقوق بلاک راہن مرتہن	مشترکہ کمایہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کھیت وار اور میزان کھتونی کاشتکار و کھیوٹ بلاک	وسائل آبپاشی معہ نام چاہ/راجباہ وغیرہ	کاشتکار جو کاشتکار ہو اگر تبدیلی شرح درج مطالبہ	مطالبہ معہ تفصیلات مالیہ وجوب	کیفیت معہ 1 ۔ سبب نمبر وار (اگر کوئی ہو) 2 ۔ شرح جدید زمین
3	10												
مذکور	۳ 15 مذکور												نمبر انتقال 2436 حتم انتقال مبہ زبانی مورخ فیصلہ 29/05/2019 نمبر انتقال 2442 حتم انتقال تبدیلی ملکیت مورخ فیصلہ 2016/08/20 نمبر انتقال 2204 حتم انتقال فتح زبانی مورخ فیصلہ 30/03/2019 فرد بدر نمبر 68 مورخ فیصلہ 29/03/2019 نمبر انتقال 2639 حتم انتقال وراثت زبانی مورخ فیصلہ 10/07/2019

نقل مطابق اصل ہے ۳۴ درخواست کنندہ ارحم خوکت ولد خوکت علی

فروبہائے ذاتی ریکارڈ قوم آرائیں

شناختی کارڈ نمبر 3130492579546

ہم اجراء کنندہ اسسٹنٹ کمشنر یاسر محمود

تاریخ فرد جنگ 12/06/2023 15:42:44

تاریخ فرد اجراء 12/06/2023 15:21:27



کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہ ہے

اراضی ریکارڈ سنٹر صادق آباد-DMM

فرد نمبر 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

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برائے تصدیق کے لیے اپنے موبائل فون سے QR کو سکین کریں

نقل رجسٹر حقداران زمین (مسل میعادی)

تحصیل عبدالحکیم ضلع خانیوال — ضلع لودھراں — تحصیل سادات — حلقہ لاری لودھراں

سال 2019-20 — کتاب نمبر 1 — رولی نمبر 15 / 29

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ	نمبر کھتونی	حقداران کے نام، ولدیت، سکونت	زمین حق ملکیت	حقوق کنواں	حقوق کھال	حقوق دیگر	زمین پر حقوق							
			کنال	مرلہ	کنال	مرلہ	کنال	مرلہ						
3	10													
	3													
	15													

نمبر 2694 مورخہ 19/02/2020
نمبر 2697 مورخہ 05/03/2020
نمبر 2700 مورخہ 12/03/2020
نمبر 2776 مورخہ 18/05/2021
نمبر 2843 مورخہ 02/12/2021

نقل مطابق اصل ہے — نام درخواست کنندہ — دستخط عہدہ داران — نام حکم حکومت ملکی

فرد پیمائش پرچہ — نام — ولدیت

3130492579546

0-00-00-034-00-00-00-0019565816

لیبر نمبر/رجسٹریشن نمبر/حوالہ کی ضرورت ہے

DMM-473 سال 2023 — 700

اسٹامپ پیڈ مورخہ 12/06/2023 15:42:44

12/06/2023 15:21:27

Scanned with CamScanner

ضلع رحیم یار خان | تحصیل صادق آباد | حلقہ نمبر | موضع

سال 2019-20 کتاب نمبر ورق نمبر 16 / 29

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر شمار مالک	نمبر کھتونی کاشتکار	نام مالک معہ نام والد/خاوند قوم اور سکونت	کوائف مالک: نوعیت حقوق مالک رہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی بینک نمبر		نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیت دار اور میزان کھتونی کاشتکار و کمیوٹ مالک	وسائل آبپاشی معہ نام چاہ و اجباء وغیرہ	کیفیت کاشتکار ہوا کرتا ہے شرح اور مطالبہ	مطالبہ معہ تفصیلات مالیہ و جبوب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ زمین
3 مذکور	10 ت 15 مذکور													

نمبر انتقال 2818 قسم انتقال وقف نامہ زبانی بدرج فیصلہ 14/09/2021

نمبر انتقال 2888 قسم انتقال بذریعہ جسٹری بدرج فیصلہ 20/04/2022

نمبر انتقال 2938 قسم انتقال بذریعہ زبانی بدرج فیصلہ 03/03/2023

نمبر انتقال 2939 قسم انتقال وراثت زبانی بدرج فیصلہ 30/11/2022

نمبر انتقال 2950 قسم انتقال حسب بخش غیر واربان زبانی بتاریخ فیصلہ 31/12/2022

نقل مطابق اصل ہے

فرد برائے ذاتی ریکارڈ

نام وہ درخواست کنندہ ارحم شوکت ولد شوکت علی

قوم آرائیں

شناختی کارڈ نمبر 3130492579546

نام اجراء کنندہ اصغر ندیم ولد سردار محمد

تاریخ فرد پرنٹنگ 12/06/2023 15:42:44

تاریخ فرد اجراء 12/06/2023 15:21:27



لیمینیٹڈ/انرائڈ/نقل۔ دستخط کی ضرورت نہیں

اراضی ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

Scanned with CamScanner

فرد کی تصدیق کے لیے اپنے سمارٹ فون سے (QR) کوڈ سکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی | طرف/پتی بدرو | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 | کتاب نمبر | ورق نمبر 29 / 17

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ ولدیت	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کھیوٹ وار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ وغیرہ	کاشتکار جو کاشتکار ہو اگر تنازعہ ہے شرح دار مطالبہ	مطالبہ معہ تفصیلات مطالبہ و جواب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح فی ایکڑ زمین
3 ذکور	10 تا 15 ذکور						میزان کھیوٹ	قطعات	3750-11-0	حسم زمین			نمبر انتقال 2967 حسم انتقال اراضی بحق ایلہ 07/02/2023 نمبر انتقال 2971 حسم انتقال اراضی بحق ایلہ 03/03/2023

فرد برائے استعمال عدالت

نقل مطابق اصل ہے — نام درخواست کنندہ ارحم شوکت ولد شوکت علی — نام اجرا کنندہ ہمرچ خمر دین خنگ ہمرچ آفیسر اجراء — اصغر ندیم ولد سردار محمد 12/06/2023 15:42:44 — 12/06/2023 15:21:27 — ڈیجیٹل سگنیچر ڈرائیو نقل۔ دستخط کی ضرورت نہیں ہے۔ — ۱۸ ضلع ریکارڈ سنٹر صادق آباد-DMM — فرد ضلع 700 — ڈاک نمبر 1029 — فرد برائے ذاتی ریکارڈ — قوم آرائیں — 3130492579546 — فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

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ضلع رحیم یار خان تحصیل صادق آباد حلقہ ۔۔۔۔

سال 2019-20 کتاب نمبر ورق نمبر 18 / 20

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۳ (ز)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ	نمبر کھتونی	کاشتکار							نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت وار وار میزان کھتونی کاشتکار و کیفیت مالک	وسائل آبپاشی معہ نام چاہ/راجباہ وغیرہ	نشان جو کاشتکار واکرتا ہے شرح اور مطالبہ	مطالب معہ تصدیقات مالیہ و جیب	کیفیت معہ 1 ۔ نام نمبر رود (اگر کوئی ہو) 2 ۔ شرح مالیہ زمین
		بمعہ نمبر معہ نام رود و قسم ہود و سکونت		ملکیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ		زرعی یا غیر زرعی نمبر							
3	10														
کھ	۳ 15 کھ														
										499	تین ہزار سات سو پچاس کنال گیارہ مرلے	بارفیچر فل نہری 2008-12-0 بارش نہری 32-0-0 بنجر قدیم 42-13-0 سڑک 5-0-0 غیر ممکن بستی 80-2-0 غیر ممکن تالاب 19-10-0			

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

نیپیو ٹائزڈ نقل بدستخط کی ضرورت نہ ہے

اراضی ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

ٹوکن نمبر 1029

12/06/2023 15:20:26 تاریخ ٹوکن اجراء

اصغر ندیم ولد سردار محمد

12/06/2023 15:42:44 تاریخ فرد تیار

12/06/2023 15:21:27 تاریخ فرد اجراء



ہمراہ اجراء کنندہ

مرحوم خوگت ولد خوگت علی

3130492579546

بموجب درخواست کنندہ

قسم آر ائی

ٹی کے نمبر

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فرد کی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی | طرف/پتی ندارد | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 | کتاب نمبر | ورق نمبر 29 / 19

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیت / مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد / خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ اخراجات	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کھیت وار اور میران کھتونی کاشتکار و کھیت مالک	سائل آبپاشی معہ نام چار اجباد وغیرہ	کان بوٹا کاشتکار و آرتا بے شرح دور مطالب	مطالبہ معہ تفصیلات مطالبہ و جیب	کیفیت مد 1 - مد نمبر دار (اگر کوئی ہو) 2 - شرح فی ایکڑ زمین
3 مذکور	10 تا 15 مذکور									غیر نکس نہر 142-19-0 غیر نکس شوگر مٹر 8-0-0 غیر نکس نیم 3-2-0 غیر نکس بیر 0-10-0 غیر نکس نیب ویل 1-0-0			

نقل مطابق اصل ہے | نام درخواست کنندہ ارحم شوکت ولد شوکت علی

فرد برائے ذاتی ریکارڈ | قوم آرائیں

3130492579546 | شناختی کارڈ نمبر

نام اجراء کنندہ اصغر ندیم ولد سردار محمد | کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

تاریخ فرد و تنگ 12/06/2023 15:42:44 | ۱۸ شعبہ ریکارڈ سنٹر صادق آباد-DMM

تاریخ فراہمی 12/06/2023 15:21:27 | فرد فیس 700

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

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20 / 29 ورق نمبر 2019-20 کتاب نمبر سال ضلع تحصیل

۱ نمبر کھیوٹ	۲ نمبر کھتونی	۳ (الف) نام مالک مع حصہ مقدار حقیت	۳ (ب) قیمت حقیت اراضی مرتہنی	۳ (ج) حصہ مزارعہ	۳ (د) خسرہ نمبر مع رقبہ	۳ (ر) زرعی پاس بک نمبر	۴ نام کاشتکار مع احوال	۵ نمبر خسرہ مع نام اگر کوئی ہو	۶ رقبہ و قسم زمین کھیت وار	۷ ذرائع آبپاشی	۸ لگان جو کاشتکار ادا کرتا ہے شرح اور مطالبہ	۹ مطالبہ مع تفصیلات	۱۰ کیفیت مع 1 - نمبر رہن (اگر کوئی ہو) 2 - شرح مالیہ زمین
3 ذکو	10 ذکو 15 ذکو									کل نمبری 56-0-0 نمبری 1351-3-0			

نقل مطابق اصل ہے نام درخواست کنندہ ارحم شوکت ولد شوکت علی

قوم ارائیں 3130492579546

نام اجراء کنندہ



اسٹر مع نام ولد سرادہ محمد

تاریخ فارم وصولی 12/06/2023 15:42:44

تاریخ فرد اجراء 12/06/2023 15:21:27

اراضی ریکارڈ سنٹر صادق آباد DMM-4

فرد فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہیں ہے۔

فرد آئی ڈی 0-00-00-034-00-00-00-0019569815

Scanned with CamScanner

فرد کی تصدیق کے لیے اپنے سمارٹ فون سے QR کوڈ اسکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال عمال دین پور ولی | طرف/پتی عمارو | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 | کتاب نمبر | ورق نمبر 121 / 29

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کانشکار	کوالف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ اولاد	نمبر خسرہ معہ نام اگر کوئی ہو	ذریعہ تسلیم زمین ملکیت وغیرہ اور میعاد کھتونی کانشکار و کھیوٹ مالک	وساطی آبپاشی معہ نام چاہ وغیرہ	کیفیت کاشتکار اور آرتھے شروح طلب مطالب	خصوصی مطالب سوتھیلات طلب و جواب	کیفیت معہ 1۔ نام نمبر دہندہ (اگر کوئی ہو) 2۔ شرح ثبت زمین

نمبر کھیوٹ	مرلع نمبر	خسرہ نمبران	خسرہ ایلیویشن	سائیں	جگہ
3	162/12	18ج، 20ج، 25ج	1,757,280	ٹیوبویل	آف روڈ
3	162/12	18ج، 20ج	1,757,280	ٹیوبویل	نک روڈ
3	162/16	15الف، 16، 17، 18، 21، 22، 23، 24، 25	1,757,280	ٹیوبویل	آف روڈ
3	162/16	15الف، 16، 21، 22، 23، 24، 25	1,757,280	ٹیوبویل	نک روڈ
3	163/10	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	ٹیوبویل	آف روڈ
3	163/10	1, 10, 12, 13, 14, 16, 17, 18, 20, 21, 23, 24, 25, 4, 5, 6, 7, 8, 9	1,757,280	ٹیوبویل	نک روڈ
3	163/11	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	ٹیوبویل	آف روڈ
3	163/11	1, 12, 14, 15, 17, 18, 19, 20, 21, 23, 24, 25, 3, 4, 6, 7, 8	1,757,280	ٹیوبویل	نک روڈ

نقل مطابق اصل ہے | نام درخواست کنندہ: ارحم شوکت ولد شوکت علی | 3130492579546

فرد برائے زرعی سرکار | تم آرائیں | مختار کار/نمبر

فرد آئی ڈی 0-00-00-024-00-00-00-00195699819 | کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے | DMM-ATG | 700

امتیاز علیم ولد سردار محمد | 12/06/2023 15:42:44

نام اجراء کنندہ: ہیر خاکروب بھنگ | 12/06/2023 15:21:27



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۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ر)	۳ (ز)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ الف	نمبر کتونی کاشتکار	نام کاشتکار معہ ولد/خاوند قوم اور سکونت	کوائف مالک: نوعیت حقوق مالک (مالکان مرتہن)	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی یا غیر زرعی	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کھیت وار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ و اجبارہ وغیرہ	کیفیت زمین اور مطالبہ	مطالبہ معہ تفصیلات مالیہ و محصول	کیفیت معہ 1 - بیم نمبر دار (اگر کوئی ہو) 2 - شرح مالیہ زمین

نمبر کھیوٹ	مرلہ نمبر	خسرہ نمبرات	خسرہ ویلیویشن	رہائش	جگہ
3	163/12	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/12	1, 10, 11, 12, 14, 15, 16, 17, 19, 2, 20, 21, 22, 23, 24, 25, 3, 5, 6, 7, 8	1,757,280	فی ایکڑ	لنک روڈ
3	163/13	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/13	10, 12, 13, 14, 15, 17, 19, 22, 23, 25, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	لنک روڈ
3	163/14	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/14	1, 10, 12, 13, 15, 16, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8	1,757,280	فی ایکڑ	لنک روڈ
3	163/15	1, 10, 11, 12, 13, 14, 15, 15الف، 15ب، 16، 17، 18، 19، 2، 20، 21، 22، 23، 24، 24الف، 25، 3، 4، 5، 5الف، 5ب، 6، 6الف، 7، 8، 9	1,757,280	فی ایکڑ	آف روڈ

نقل مطابق اصل ہے — بیعہ خواست کنندہ

نمبر شناختی کارڈ — قلم آرائیں — شناختی کارڈ نمبر

ارقم شوکت ولد شوکت علی

3130492579546



نام اجرا کنندہ — امتیاز ندیم ولد سردار محمد

تاریخ اجرا — 12/06/2023 15:42:44

تاریخ فرد اجراء — 12/06/2023 15:21:27

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہ ہے

ادارہ ضلع ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

فوکن نمبر 1029

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

12/06/2023 15:20:26 — تاریخ فوکن اجراء

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ضلع رحیم یار خان | تحصیل صادق آباد | سال 2019-20 | کتاب نمبر | ورق نمبر 22 / 20

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	نام مالک معہ نام والد/خاوند قوم اور سکونت	کوائف مالک: نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت دار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ/راجباہ وغیرہ	مکان جو کاشتکار اور اکرتہ بشرح اور مطالبہ	مطالبہ معہ تفصیلات مالیہ و مبوب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ زمین

نمبر کھیوٹ	مرلہ نمبر	خسرہ نمبرات	خسرہ ویلیویشن	پیمائش	جگہ
3	163/12	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/12	1, 10, 11, 12, 14, 15, 16, 17, 19, 2, 20, 21, 22, 23, 24, 25, 3, 5, 6, 7, 8	1,757,280	فی ایکڑ	لنک روڈ
3	163/13	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/13	10, 12, 13, 14, 15, 17, 19, 22, 23, 25, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	لنک روڈ
3	163/14	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/14	1, 10, 12, 13, 15, 16, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8	1,757,280	فی ایکڑ	لنک روڈ
3	163/15	15الف، 15ب، 16، 17، 18، 19، 2، 20، 21، 22، 23، 24، 24الف، 25، 3، 4، 5، 5الف، 5ب، 6، 6الف، 7، 8، 9	1,757,280	فی ایکڑ	آف روڈ

نقل مطابق اصل ہے — دستخط درخواست کنندہ

نام درخواست کنندہ: ارقم شوکت ولد شوکت علی

قوم آرائیں

شناختی کارڈ نمبر 31304925795 46



دستخط کنندہ

تاریخ فراہمی 12/06/2023 15:21:27

تاریخ منگ 12/06/2023 15:42:44

اصغر ندیم ولد سردار محمد

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے

ادائیگی بذریعہ سٹمپ صادق آباد DMM

فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن 12/06/2023 15:20:26

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

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فردی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ اسکین کریں

نقل رجسٹر حقداران زمین (مسل میعادی)

محال عمال دین پناہ | طرف/تج عمارہ | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 کتاب نمبر | ورق نمبر 29 : 123

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کمپوٹ مالک	نمبر کمپوٹی کاشتکار	کو مالک مالک: نام مالک معہ ولدیت/زوجیت قوم اور سکونت	نوعیت حقوق مالک زمین مرتھن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص حد قبضہ مطابق حصہ	رقبہ جات مالکانہ کی ہاں یک نمبر	نام کاشتکار معہ ولدیت	نمبر خسرہ معہ نام واگزار کردہ	قسم و نمبر شمار مالکیت اراضی جیسا کہ کھتونی کاشتکار گھیت مالک	سال آبپاشی معہ موسم پیداوار وغیرہ	کیفیت معائنہ معہ تصحیحات	کیفیت معہ 1-نمبر شمار واگزار کردہ 2-شرح لگان

نمبر کمپوٹ	مرکز نمبر	خسرہ نمبرات	خسرہ گرداوری	بارانی	تحد
3	163/15	15پ، 16، 18، 23، 24، 25، 3، 5، 5الف، 5پ، 11، 13، 14، 6، 6الف، 7، 8، 9	1,757,280	نہری بارانی	لگ رہا
3	163/16	1، 10، 11، 12، 13، 14، 15، 16، 17، 18، 19، 2، 20، 21، 22، 23، 24، 25، 3، 4، 5، 6، 7، 8، 9	1,757,280	نہری بارانی	لگ رہا
3	163/16	1، 10، 11، 12، 14، 16، 17، 18، 19، 20، 21، 22، 23، 24، 25، 3، 5، 6، 7، 8، 9	1,757,280	نہری بارانی	لگ رہا
3	163/5	11الف، 11ج، 11د، 12، 12ج، 13، 14، 15، 16، 17، 18، 19، 20، 21، 22، 23، 24، 25، 6، 6ج، 7ج	1,757,280	نہری بارانی	لگ رہا
3	163/5	11الف، 11ج، 12، 12ج، 13، 14، 16، 17، 19، 20، 23، 24، 6، 6ج	1,757,280	نہری بارانی	لگ رہا
3	163/6	1، 10، 11، 12، 13، 14، 15، 16، 17، 18، 19، 2، 20، 21، 22، 23، 24، 25، 3، 4، 5، 6، 7، 8، 9	1,757,280	نہری بارانی	لگ رہا
3	163/6	1، 10، 11، 12، 13، 14، 15، 18، 19، 2، 21، 22، 23، 24، 25، 4، 5، 6، 9	1,757,280	نہری بارانی	لگ رہا

نقل مطابق اصل ہے — نام درخواست کنندہ: ارحم شوکت ولد شوکت علی — 3130492579546

خسرہ جات زرعی برائے — قوم آرائیں — ولدیت/زوجیت

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816 — لیپ ٹاپ کا نقل سے تعلق ضرورت نہ ہے — اسٹرنگ نمبر ولد مرد/عورت — نام اجراء کنندہ — تصویر

فارمی ریکارڈ آفس صادق آباد DMM- — 12/06/2023 15:42:44 تاریخ فرد پرنٹ — 12/06/2023 15:21:27 تاریخ فرد اجراء

فیس 700 — 1029 دستی نمبر

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فرد کی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی | طرف/پتی عدارد | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 کتاب نمبر | ورق نمبر 29 / 23

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین ملکیت دار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ/اجاہ وغیرہ	نشان جو کاشتکار ہوا کرتا ہے شرح اور مطالبہ	مطالبہ معہ تفصیلات مالیہ واجب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ زمین

نمبر کھیوٹ	مربع نمبر	خسرہ نمبرات	خسرہ مجموعی تعین	پیمائش	جملہ
3	163/15	15ب, 16, 18, 23, 24, 25, 3, 5, 5الف, 5ب, 11, 13, 14, 6, 6الف, 7, 8, 9	1,757,280	فی ایکڑ	لنک روڈ
3	163/16	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/16	1, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 3, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	لنک روڈ
3	163/5	11الف, 11ج, 11د, 12, 12ج, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 6, 6ج, 7ج	1,757,280	فی ایکڑ	آف روڈ
3	163/5	11الف, 11ج, 12, 12ج, 13, 14, 16, 17, 19, 20, 23, 24, 6, 6ج	1,757,280	فی ایکڑ	لنک روڈ
3	163/6	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	1,757,280	فی ایکڑ	آف روڈ
3	163/6	1, 10, 11, 12, 13, 14, 15, 18, 19, 2, 21, 22, 23, 24, 25, 4, 5, 6, 9	1,757,280	فی ایکڑ	لنک روڈ

نقل مطابق اصل ہے | نام درخواست کنندہ ارحم شوکت ولد شوکت علی | فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

فرد برائے ذاتی ریکارڈ | قوم آرائیں | 3130492579546

نام اجراء کنندہ | تاریخ فرد پرنٹنگ 12/06/2023 15:42:44 | تاریخ فرد اجراء 12/06/2023 15:21:27

اصغر ندیم ولد سردار محمد | ۱۸ ضلع ریکارڈ سنٹر صادق آباد-DMM | فرد فیس 700

کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہ ہے۔

Scanned with CamScanner

جگہ	سہولیات	خسرہ/خلیہ نمبر	خسرہ نمبرز	مرلہ نمبر	نمبر گنتی
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	163/7	3
لنک روڈ	فی ایکڑ	1,757,280	11, 14, 15, 16, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 9	163/7	3
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 7, 8, 9	163/8	3
لنک روڈ	فی ایکڑ	1,757,280	1, 11, 12, 13, 15, 16, 17, 18, 19, 2, 20, 22, 23, 24, 3, 4, 5, 6, 8, 9	163/8	3
آف روڈ	فی ایکڑ	1,757,280	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 20, 9, 8, 7, 6, 5, 4, 3, 22, 25, 24, 23, 22	163/9	3
لنک روڈ	فی ایکڑ	1,757,280	10, 13, 15, 16, 17, 18, 19, 20, 23, 25, 3, 5, 6, 7, 8	163/9	3
آف روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 8, 9	164/10	3
لنک روڈ	فی ایکڑ	1,757,280	1, 10, 11, 12, 13, 14, 15, 16, 18, 19, 2, 20, 21, 22, 23, 24, 25, 3, 4, 5, 6, 8	164/10	3



0-00-00-034-00-00-00-0019569816 فرد آئی ڈی

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں۔

DMM-آئی ڈی سافٹ سٹنر ایپلی کیشن ریکارڈ

700 فیس

1029 ٹوکن نمبر

12/06/2023 15:20:26 تاریخ ٹوکن اجراء

اسٹرنڈ بجواله سروا محمد

12/06/2023 15:42:44

12/06/2023 15:21:27

31304025795-6

Scanned with CamScanner

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: ہم مالک معہ نام والد اخاذ قوم اور سکونت	نوعیت حقوق مالک رہائن مرتہن	مشترکہ کھاتہ میں خصوص حصہ	خصوص برقبہ مشاعی حصہ	زرعی پاس بک نمبر	ہم کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کھیت وار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ و اجباد وغیرہ	نکان جو کاشتکار چاہے شرح اور مطالب	مطالب معہ تفصیلات مالیہ وجیوب	کیفیت معہ 1 - ہم (نمبر ۸ اگر کوئی ہو) 2 - شرح مالیہ زمین
3 مذکور	10 تا 15 مذکور													بحوالہ انتقال نمبر 2203 مک آزر ہن منفصلہ مورخہ 29/03/2019 کھاتہ بذار قبہ تھہ اوی 3750-11-0 کا 1098/75011 بقدر 54-18-0 منجانب محمد زمان ولد سنگ جہان خاں بحق زرعی ترقیاتی بنک بلعوض مبلغ 0 مک آزر ہن ہو چکا ہے نمبر انتقال 1924 قسم انتقال وراثت نمبر انتقال 2045 قسم انتقال مک الرہن رجسٹری

نقل مطابق اصل ہے ہم درخواست کنندہ ارحم شوکت ولد شوکت علی

فرد برائے تصدیق پہچان قوم آرائیں

شناختی کارڈ نمبر 3130492579546

ہم اجراء کنندہ اصغر ندیم ولد سردار محمد

تاریخ فرد پرنٹنگ 12/06/2023 15:42:44

تاریخ فرد اجراء 12/06/2023 15:21:27



کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہ ہے۔ فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

ہراشی ریکارڈ اسسٹنٹ صادق آباد DMM-

فرد فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

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فردی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی　　طرف ارتی　عدد　　تحصیل صادق آباد　　ضلع رحیم یار خان　　سال 2019-20 کتاب نمبر　　ورق نمبر 29 / 9

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ بانک	نمبر کھتونی کاشتکار	کوائف مالک: ہم مالک معہ نام والد اخانہ قوم و سکونت	کوائف مالک: نوعیت حقوق مالک راہن مرتہن	کوائف مالک: مشترکہ کھاتہ میں مخصوص حصہ	کوائف مالک: مخصوص رقبہ مطابق حصہ	کوائف مالک: زرعی پاس بک نمبر	ہم کاشتکار مع احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت اور اس پر موجود کھتونی کاشتکار و کھیوٹ بانک	وسائل آبپاشی معہ نام چاہ وغیرہ	طلب مع تفصیلات باقیہ و حسب	کیفیت معہ 1 - نام نمبر دار (اگر کوئی ہو) 2 - شرح نافیہ زمین
3 ذکور	10 ت 15 ذکور												بحوالہ انتقال نمبر 2524 بنک آکرہن مستعملہ سورتہ 2017/06/22 کھاتہ چندر تبہ تعدادی 3770-5-0 400/150816 بقدر 100-0-0 منجانب الائیڈ بنک لمیٹڈ بحق محمد عمر ولد مولا بخش بلحوض مبلغ 0 بنک آکرہن ہو چکا ہے

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

افسر مجاز مہر و نام سردار محمد 12/06/2023 15:42:44

ہم بورڈ کنندہ تاریخ آخر بنک

ارجم شوکت ولد شوکت علی 3130402077648

نقل مطابق اصل ہے　ہم بورڈ درخواست کنندہ

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۱	۲	۳	۴	۵	۶	۷	۸	۹	۱۰	۱۱	۱۲	۱۳
نمبر شمار	نمبر خسرہ	نام کاشتکار مع ولدیت	ظہور قسم و مد آبیانہ اگر کوئی ہو	رقبہ و قسم و حدود جس کے روبرو کھتونی کا اندراج ہو کیفیت مالک	سال آبیانہ مد نام چاہ راجباہ وغیرہ	مکان ہونے کا اندراج اگر کوئی ہو شرح اور مطالبہ	مطالبہ مد نصف پیداوار یا نقد وصولیہ	کیفیت مالک (1 - نام ولدیت و قوم اگر کوئی ہو 2 - شرح مالیہ روپیہ)	نام مالک مع ولدیت قوم اور سکونت	نوعیت حقوق مالک زمین ہر نمبر	مشترکہ کھاتہ میں خصوص حصہ	خصوص رقبہ مشترکہ حصہ	دری باں یک نمبر	نام کاشتکار مع ولدیت	نمبر خسرہ	نمبر شمار
								بحوالہ انتقال نمبر 2522 مگ آکزیلری منعقدہ مورخہ 2017/06/22 کماد ہذا رقبہ تعداد 0-S-3770 400/150816 بقدر 0-0-100 بجانب الائیڈ بنک لیمیٹڈ بحق نیاز احمد ولد مانک بلحوض مبلغ 0 مگ آکزیلری ہو چکا ہے								

نقل مطابق اصل ہے

فرد برائے انتقال زیر دفعہ

نام و ولدیت کنندہ

قوم آرائیں

خاتی کارڈ نمبر

ارشم ثواب ولد ثواب علی

3130492679548



نام و ولدیت کنندہ

دستخط و انگوٹھا

تاریخ فراہمی نقل

12/06/2023 15:21:27

اصغر علی ولد سردار محمد

12/06/2023 15:42:44

کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہیں ہے۔

فرد آئی ڈی 0-00-00-034-00-00-00-0018559816

ماضی پرچہ اسٹیٹ سروے آباد DMM-

فرد فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

Scanned with CamScanner

نقل رجسٹر حقداران زمین (مسل میعادی)

فرد کی تصدیق کے لیے اپنے موبائل فون سے (QR) کوڈ سکین کریں۔

محال جمال دین والی | طرف/پتی ندارد | تحصیل صادق آباد | ضلع رحیم یار خان | سال 2019-20 | کتاب نمبر | ورق نمبر 29 / 7

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک رائج مرتبہ	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ مطابق حصہ	زرعی پاس بک نمبر (و)	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام اگر کوئی ہو	رقبہ و قسم زمین کیفیت وار اور میزان کھتونی کاشتکار و کھیوٹ مالک	وسائل آبپاشی معہ نام چاہ راجباہ وغیرہ	کیفیت معہ کاشتکار واگر تبدیلی ہو شرح مد مطالبہ	مطالبہ معہ تفصیلات مالیہ و جیب	کیفیت معہ 1-نام نمبر ور (اگر کوئی ہو) 2-شرح مالیہ زمین
3	10 تا 15	جے ڈی ڈبلیو ہوگر ملز جمال دین والی	مالک	427584/20402992	78-12-0		باقی بدستور	قلعات 499	سالم کھاتہ 3750-11-0 تین ہزار سات سو پچاس کنال				نوٹ انتقال نمبر 2519 تک آزر ہن مستقلہ مورخہ 2017/06/22 کھاتہ بذمرقبہ تھادی 3770-5-0 400/150816 بقدر 100-0-0 منجانب زرعی ترقیاتی بینک بحق ندے خاں ولد غازی و احمدے خاں ولد غازی بعوض مبلغ 396000 تک آزر ہن ہو چکا ہے
		۳ (ب) قومی شناختی کارڈ نمبر		1572/75011	78-12-0								
		باقی بدستور میزان		73439/75011 1572/75011	78-12-0								

0-00-00-034-00-00-00-0019569816 فرد آئی ڈی

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں

DMM-آفیسر صادق آباد / اضافی ریکارڈ

700 فیس

امضاء مجاز اللہ سردو محمد 12/06/2023 15:42.44

نام اجراء کنندہ

ارحم شوکت ولد شوکت علی

31304B2578546

نقل مطابق اصل ہے

نام درخواست کنندہ

فرد میں لکھے گئے رقبہ کا

قسم آبپاشی

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۱	۲	۳	۴ (ا)	۴ (ب)	۴ (ج)	۴ (د)	۵	۶	۷	۸	۹	۱۰
نمبر شمار	نمبر خسرہ	۴ مالکان	ہم مالک حصہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	آخر کو کتنی حصہ حصہ	خصوصی رقبہ متعلقہ حصہ	زرعی یا غیر زرعی	۴ کاشتکار مستاجران	رقبہ و قسم زمین کھیت وار اور میزان گستونی کاشتکار و کھیت مالک	نمبر خسرہ و مدہ نام اگر کوئی ہو	وسائل آبپاشی مدہ نام چاہ راجباہ وغیرہ	کیفیت مدہ 1 - نام نہر راہ (اگر کوئی ہو) 2 - شرح مالیہ زمین	مطالبہ مد آبیانہ مالیہ و حقوق	کیفیات جو کاشتکار اور کرتا ہے شرح اور مطالبہ
313											0 نہری 27-4-0			

نقل مطابق اصل ہے

درخواست کنندہ

قوم آرائیں

شناختی کارڈ نمبر

ارحم ٹوکت ولد ٹوکت علی

3130492579546

نام اجرا کنندہ اصغر ندیم ولد سردار محمد

ہمراہ فرد اجراء

ہمراہ فنگر پرنٹ

12/06/2023 15:42:44

12/06/2023 15:21:27

کمپیوٹرائزڈ نقل۔ دستخط کی ضرورت نہیں ہے۔

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

ماضی ریکارڈ سنٹر صادق آباد-DMM

فرد فیس 700

ٹوکن نمبر 1029

ہمراہ ٹوکن اجراء 12/06/2023 15:20:26

Scanned with CamScanner

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین والی — طرف/پتی ندارد — تحصیل صادق آباد — ضلع رحیم یار خان — سال 2019-20 — کتاب نمبر — فرد نمبر 29 / 5

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	۳ مالک مع نام والد/خاوند قوم اور سکونت	۳ کوائف مالک: ذوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص بہ قبضہ مطابق حصہ	زمین پاس یا نہر	۳ کوائف انتقال معہ احوال	نمبر کھیوٹ مع تقسیم در تقسیم	قسم و حسب زمین کھیوٹ کھتونی انتقال، کیفیت مالک	مساحت آبپاشی مع چاہ نمبر	مساحت بارانی مع شرح	مساحت بنجر مع شرح
313 مذکور								85	چہ سوا فصل	خربیہ 4-0-0 خرقریم 35-0-0 غیر ممکن پختہ 7-0-0 غیر ممکن سڑک 16-0-0 غیر ممکن سکول 8-0-0 غیر ممکن شوکر خو 510-16-			

نقل مطابق اصل ہے — بمعہ درخواست کنندہ — ارحم شوکت ولد شوکت علی — 3130492679549

فرد آن لائن 0-00-00-034-00-00-00-0019559816 — فیس فارم کا مل و حقداری خرید شدہ DMM-4TJ — 12/06/2023 15:42:44

Scanned with CamScanner

کیفیت 1- نام نمبر ... 2- شرح لگان زمین	مطالبہ مع تفصیلات ...	لگان جو کاشتکار ادا کرتا ہے شرح اور مطالبہ	رسائی آبپاشی ... وغیرہ	رقبہ و قسم زمین ... میزان کھتونی کاشتکار و کھیوٹ مالک	نمبر خسرہ ...	نام کاشتکار مع احوال	... نمبر	حصہ ...	... حصہ	... مرتہن	نام مالک مع احوال ...	[illegible]	[illegible]
بحوالہ انتقال نمبر 2777 ایڈوی آگروہن منقطع مورخہ 21/08/2021 کھاتہ بذا رقبہ تعدادی 69/76 608-0-0 بقدر 0-0-552 بحق ایم سی بی بینک لمیٹڈ منجانب ... ڈی ڈبلیو شو گر ملز ... والی بغرض مبلغ 18106363668 ایڈوی آگروہن ہو چکا ہے بحوالہ فرد بدر نمبر 31 تاریخ 23/12/2013													313 ...
			قسم زمین	608-0-0	تفصات	میزان کھیوٹ							

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل ... دستخط کی ضرورت نہیں ہے

اراضی ریکارڈ سنٹر صادق آباد-DMM

فیس 700

ٹوکن نمبر 1029

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

نام اجراء کنندہ ... ولد ... محمد

تاریخ فرد پرنٹنگ 12/06/2023 15:42:44

تاریخ فرد اجراء 12/06/2023 15:21:27



نقل مطابق اصل ہے ... درخواست کنندہ

ذرائع نقل ... قوم آرائیں

شناختی کارڈ نمبر

... شوکت ولد شوکت علی

3130492579546

۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر شمار	رقبہ قسطوار کاشتکار	کھاتہ مالک: ہمسایگی سمت وحدود اندراج قسم و سکونت	نوعیت حق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص رقبہ۔ مطابق حصہ	زرعی بینک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ وحد نہم اگر کوئی ہو	رقبہ، قسم زمین کیفیت وار ہمراہ میزان گھستی کاشتکار و کمیوٹ مالک	وسائل آبپاشی معہ ہمراہ راجبہ و غیرہ	نشان جو کاشتکار اور اگر تبدیلی شرح مطالب	مطالبہ معہ تخصیصات مطالبہ و جواب	کیفیت معہ ۱۔ نام نمبردار (اگر کوئی ہو) ۲۔ شرح مالیہ زمین
313														
ذکور														

بحوالہ انتقال نمبر 2629
ایزادی آکزیلری منفصلہ
مورخہ
28/06/2019 کھاتہ
بذریعہ تعدادی
69/76/608-0-0
بقدر 0-0-552 جن نیم
سی بی بینک لمیٹڈ مطالبہ ہے
ڈی ڈبلیو شوگر ملز جلال الدین
والی بلھوس مبلغ
17048617315
ایزادی آکزیلری نمبر پکا ہے

0-00-00-034-00-00-00-0019569816	فرد آن لائن	کمپیوٹرائزڈ انتقل۔ دستخط کی ضرورت نہ ہے۔	
	ادارہ جاری کنندہ	صادق آباد-DMM	
	فرد نمبر	700	
12/06/2023 15:20:26	تصدیق کنندہ ادارہ	1029	نمبر شمار

دستخط کنندہ			
تصدیق کنندہ	12/06/2023 15:42:44		
تصدیق کنندہ ادارہ	12/06/2023 15:21:27		



313130492579546			

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توثیق کے لیے اپنے موبائل فون سے (QR) کوڈ اسکین کریں۔

نقل رجسٹر حقداران زمین (مسل میعادی)

محال جمال دین وطلی　طرف ارجی عمدہ　تحصیل صادق آباد　ضلع رحیم یار خان　سال 2019-20 کتاب نمبر　ورق نمبر 2 / 29

۱	۲	۳ (الف)	۳ (ج)	۳ (د)	۳ (ہ)	۳ (و)	۴	۵	۶	۷	۸	۹	۱۰
نمبر کھیوٹ مالک	نمبر کھتونی کاشتکار	کوائف مالک: نام مالک معہ نام والد/خاوند قوم اور سکونت	نوعیت حقوق مالک راہن مرتہن	مشترکہ کھاتہ میں مخصوص حصہ	مخصوص مرقبہ مکانیت حصہ	زرعی ماس یک نمبر	نام کاشتکار معہ ولدیت	نمبر شمار معہ نام اگر کوئی ہو	مرقبہ قسم زمین کھیوٹ دار اور میزان کھتونی کاشتکار و کھیوٹ مالک	سال آبپاشی معہ نام چاہ/نہر وغیرہ	کیفیت کاشتکار اگر کاشت نہ کرتا ہے شرح مقررہ مطالبہ	مطالبہ معہ تفصیلات بابت وجوب	کیفیت معہ 1- نام نمبردار (اگر کوئی ہو) 2- شرح فی ایکڑ زمین
313 مذکور													مکمل انتقال نمبر 2553 ایما وی کارڈ ان منضبط مورخہ 08/06/2018 بذریعہ تصدیق 69/76+608-0-0 جتر 0-0-552 کنال نام میاں بکے لیفٹ خانصاحب ذی ایل ایم گرلز کالج صادق آباد شریف بقلوس مسلغ 18104666984 ایما وی کارڈ ان ہو چکا ہے

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816　پیپر ڈائری نقل۔ دستخطی ضرورت ہے　اسٹامپ نمبر و مالیت نمبر　نام اجراء کنندہ　نام درخواست کنندہ　ارجم خوشحال والد خوشحال علی

ڈائری رجسٹر DMM-صادق آباد　12/06/2023 15:42:44　ہر دستخط و انگوٹھا　3130492579548

فیس 700　12/06/2023 15:21:27　ہر دستخط و انگوٹھا

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۱	۲	۳ (الف)	۳ (ب)	۳ (ج)	۳ (د)	۳ (ہ)	۴	۵	۶	۷	۸	۹	۱۰
نمبر شمار مالک	نمبر گرداول / شمار	کیفیت حقوق مالک و بابت حصہ	نام مالک معہ نام والد / خاوند / قوم و سکونت	حصہ کہ کتنے میں مخصوص حصہ	مخصوص رقبہ / مطابق حصہ	زرعی یا آبی بک نمبر	نام کاشتکار معہ احوال	نمبر خسرہ معہ نام دگر کوئی ہو	رقبہ و قسم زمین کیفیت وار اور میزان کیفیت کاشتکار و کیفیت مالک	وسائل آبپاشی معہ نام چاہ و اجباء و تعمیرہ	کیفیت مقدمہ کاشتکار آکر کتنے شرح و مطالبہ	مطالبہ معہ تفصیل مطالبہ و جواب	کیفیت معہ 1 - نام نمبردار (اگر کوئی ہو) 2 - شرح مالیہ روپیہ
313	597	سے ذکی ذوالج خوگر طلز محالدین والی	مالک	3307520/3307520	608-0-0		باقی بدستور	قطعات 85	سالم کھاتہ 608-0-0 چھ سو آٹھ کنال				بحوالہ انتقال نمبر 2196 مگ آنر بن مستقصلہ مورخہ 03/04/2013 کھاتہ بذا رقبہ تعدادی 608-0-0 69/76 بقدر 552-0-0 منجانب یونین بنک بحق سے ذی ذوالج شوگر طلز جمالدین والی ولد و بعوض مبلغ 0 مگ آنر بن ہو چکا ہے
312		(ب) قومی شناختی کارڈ نمبر		حصہ مشترکہ 69/76	رقبہ مشترکہ 552-0-0								
		میزان		69/76	552-0-0								

نقل مطابق اصل ہے

فرد برائے انتقالی پٹکارہ

نام درخواست کنندہ اورحم خوکت ولد خوکت علی

قوم آرائیں

شناختی کارڈ نمبر 31304925795 46

فرد آئی ڈی 0-00-00-034-00-00-00-0019569816

کمپیوٹرائزڈ نقل ۔ دستخط کی ضرورت نہیں

راضی ریکارڈ آپریٹر صادق DMM-4

فرد فیس 700

ٹوکن نمبر 1029

اصغر ندیم ولد سردار محمد

تاریخ فرد ہذا 12/06/2023 15:42:44

تاریخ فرد واجراء 12/06/2023 15:21:27

تاریخ ٹوکن اجراء 12/06/2023 15:20:26

DEHI MARKAZ MALL
Circle Said Pur



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حال شریک ... طرف ... تحصیل ...

ضلع رحیم یار خان ... سال ... کتاب نمبر ... ورق نمبر

۲ نمبر شمار کاشتکار	۳ (الف) نام مالک معہ نام والد / خاوند یا قوم اور سکونت	۳ (ب) کوائف مالک: حیثیت مثلاً مالک / کاشتکار / ٹھیکیدار / مرہون وغیرہ	۳ (ج) نمبر کھاتہ / کھیوٹ / کھتونی	۳ (د) نمبر خسرہ / مساحتی نمبر	۳ (ہ) رقبہ	۳ (و) زرعی بیان نمبر	۴ نام کاشتکار معہ احوال	۵ نمبر خسرہ معہ نام (اگر کوئی ہو)	۶ رقبہ و قسم زمین کیفیت وار اور میزان کھتونی کاشت کار و کھیوٹ مالک	۷ وسائل آبپاشی معہ نام چاہ راجباہ وغیرہ	۸ لگان جو کاشتکار ادا کرتا ہے شرح اور مطالبہ	۹ مطالبہ معہ تفصیلات مالیہ و جوب	۱۰ کیفیت معہ ۱۔ نام نمبردار (اگر کوئی ہو) ۲۔ شرح مالیہ زمین
1123	جے خدی۔ گوجر ملنسر ولد پیر بخش گلریز کاہور تحصیل و ضلع رحیم یار خان گجر	مالک	248				مقوضہ جے خدی ڈیلیو شوگر ملنسر	میزانکس	248 — 0 — 39			(نوٹ) آمدہ حق از JDW رحیم یار خان و حکم جناب تحصیلدار صاحب مطابق حقی کاشتکار	شوگر ملز نمبر 23/10/2020 بنام تحصیلدار صاحب و حسب رحیم یار خان مورخہ 6/11/2020
	۳ (ب) قومی شناختی کارڈ نمبر												
	میر ناصر حسین بخش ولد عابد حسین ... بینک کمپنی (اور بلڈنگ فنانس ڈویژن) سعودی پاک کمرشل بینک لمیٹڈ												
	۳ (ب) قومی شناختی کارڈ نمبر												
	بابک زنجانی انویسٹمنٹ کمپنی پیرٹرسٹ نمبر												
	۳ (ب) قومی شناختی کارڈ نمبر												
	نسیل جنت نمبر ۲ ...												
	۳ (ب) قومی شناختی کارڈ نمبر												
	۳ (ب) قومی شناختی کارڈ نمبر												

PBICL 600,000,000/

Soneri Bank 536,666,667/

DIBPL 208,333,333/

SCB 333,333,334/

MCB Security Agent 2,666,666,667/ 980,000,000/

نقل مطابق اصل ... JDW ... ضلع ...

Poicl 333,333,334/

Park Ujvic 20,000,000/

HBL 1,000,000,000/

کولیزان 18/06,363,668 حوالہ

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ANNEX-III

Certificate of Incorporation

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بسم الله الرحمن الرحيم

GOVERNMENT OF PAKISTAN

Certificate of Incorporation

[Under Section 32 of the Companies Ordinance, 1984 (XLVII of 1984)]

Company Registration No. L 02480

I hereby certify that "JDW SUGAR MILLS(PRIVATE) LIMITED" // // // //

is this day incorporated under the Companies Ordinance, 1984 (XLVII of 1984) and that the Company is limited by shares.

Given under my hand at Lahore

this 31st day of May, 1990

one thousand nine hundred and Ninety.

Fee Rs. 4350/- (RUPEES FOUR THOUSAND THREE HUNDRED & FIFTY)

Seal

(ABDUL REHMAN QURESHI)
JOINT REGISTRAR OF COMPANIES
LAHORE

CERTIFIED TO BE TRUE COPY
ASSISTANT REGISTRAR OF COMPANIES
LAHORE

No. JRL 8522
Dated 3/6/90

Certified to be true copy
Secretary,
JDW Sugar Mills Ltd.
LAHORE.

CamScanner

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DIRECTORATE GENERAL OF INDUSTRIES,
PRICES, WEIGHTS & MEASURES, PUNJAB
POONCH HOUSE, MULTAN ROAD, LAHORE.

Dated Lahore the 21st December, 2022

ORDER

No. PPS/JDW-II/S.M/2022: **WHEREAS,** Pakistan Sugar Mills Association reported on 28.09.2013 that certain Sugar Mills have enhanced its crushing capacities in violation of Notification No. AEA-III-3-5/2003 dated 06.12.2006. The then Director of Industries Punjab constituted six teams vide letter dated 07.04.2014 to carry out inspections of Sugar Mills in order to determine their sanctioned capacities, existing capacity and actual installed capacity.

2. **WHEREAS,** the Joint Inspection Team reported that M/s. JDW Sugar Mills (Limited) Unit-II District Rahimyar Khan enhanced its crushing capacity from 2000 TCD to 9000 TCD during ban period without seeking permission from the Competent Authority in contravention of section 3 of Punjab Industries (Control on Establishment and Enlargement) Ordinance 1963.

3. **AND WHEREAS,** on the basis of inspection report a Show Cause notice dated 04.06.2014 was served upon the said Sugar Mills by the then Director General IPWM Punjab stating therein that the said Sugar Mills has enhanced its crushing capacity from 2000 TCD to 9000 TCD during ban period without seeking prior permission of the Competent Authority and further directed to submit reply regarding violation within ten days along with documentary evidence to vindicate their position, otherwise the matter may be decided on the basis of available record of this office. Several hearings were conducted in order to arrive any just conclusion but the matter remained pending due to non-production of supporting documents as well as non-availability of the counsel of the said Sugar Mills for a long span of time.

4. **AND WHEREAS,** the matter of enhancement of crushing capacity of the said Sugar Mills was again taken up and a hearing notice dated 23.04.2020 was served by the then Director General IPWM Punjab with the direction to provide the incontrovertible documentary evidence alongwith year-wise exact period during which the alleged enhancement in the crushing capacity took place on the prescribed proforma.

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AND NOW THEREFORE, keeping in view the facts discussed above and in the light of report of Technical Sub-Committee, the decision of the Committee and after perusing all relevant documents, the crushing capacity to the maximum upper limit of 22000 TCD of M/s. JDW Sugar Mills Limited Unit-II, Rahimyar Khan is regularized within the same premises subject to submission of Rs. 220.00 million as requital amount.

DIRECTOR GENERAL
(INDUSTRIES, PRICES, WEIGHTS & MEASURES)
PUNJAB

CC:

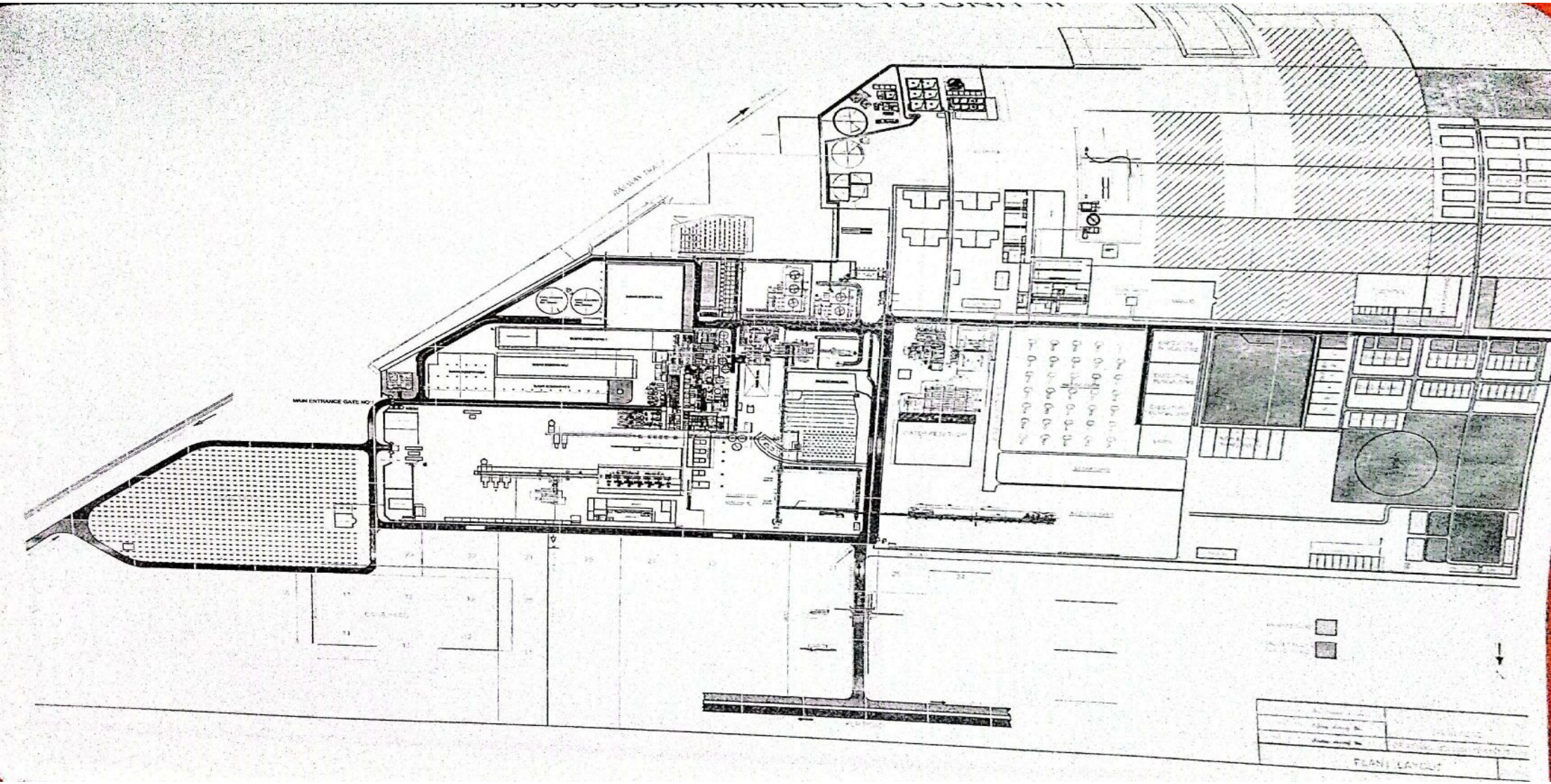
1. Chief Secretary Punjab.
2. Principal Secretary to Chief Minister Punjab.
3. Secretary to Government of the Punjab, Finance Department.
4. Secretary to Government of the Punjab ICI&SD Department.
5. Secretary to Government of the Punjab Food Department.
6. Secretary to Government of the Punjab Agriculture Department.
7. Cane Commissioner Punjab.
8. Deputy Commissioner Rahimyar Khan.
9. District Officer (IPWM) Rahimyar Khan.
10. M/s. JDW Sugar Mills Limited Unit-II District Rahimyar Khan.

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ANNEX-IV

Layout of Project

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ANNEX-V

Copy of Effluent Dischagre Bill

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OFFICE OF THE
EXECUTIVE ENGINEER
DALLAS CANAL DIVISION
RAHIMYARKHAN
Ph: (068) 9230092

The Manager
Jamal Din Wali Sugar Mills Ltd.
Tehsil Sadiqabad.
District Rahimyarkhan.

No 3413-14 / 40-R Dated 21-07 /2022

Subject: - BILL FOR EFFLUENT DISCHARGE PASSED IN TO LAMMA DISTY RD: 01-02/R FOR JAMAL DIN WALI SUGAR MILL TEHSIL SADIQ ABAD FOR THE YEAR 2022-23 AMOUNTING RS. 105000/-

As per instruction, the Bill for effluent water discharge passed into Lamma Disty at RD: 1-2/R for the year 2022-23 (Period from 01.07.2022 to 30.06.2023) for Amounting Rs: 105000/- is hereby submitted.

You are requested to deposit the said amount through cash with Sub Divisional Officer Lamma Canal Sub Division Ahmed Pur Lamma within a week positively under intimation to this office and also draw agreement on stamp paper of Rs.1000/- with the undersigned on behalf of the Government of Punjab.

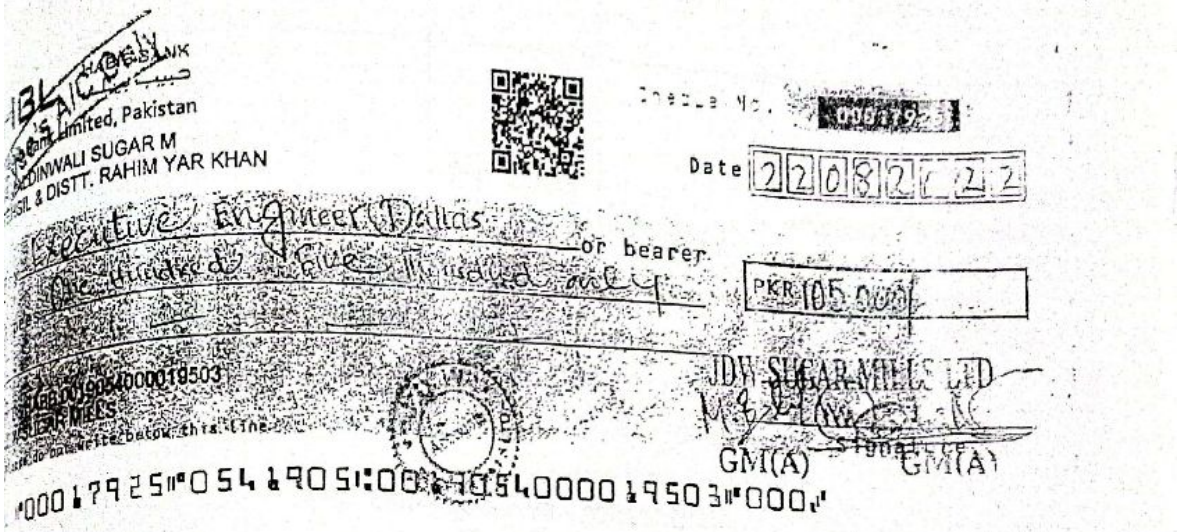
Executive Engineer
Dallas Canal Division
Rahimyarkhan

No _____ /40-R Dated 21-07-/2022.

Copy of above is forwarded to the Sub Divisional Officer Lamma Canal Sub Division Ahmed Pur Lamma for information with reference to his No. 487-we dated 13/7 07.2022. You are directed to immediately contact with the above mentioned company & ensure for depositing the amount / charges.

Executive Engineer
Dallas Canal Division
Rahimyarkhan

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FOR EFFLUENT DISCHARGE PASSED INTO LAMMA DISTY AT RD: 1-2/R OF
AL DIN WALI SUGAR MILLS THESIL SADIQABAD FOR THE YEAR 2020-21
AMOUNTING RS: 105000/- (PERIOD FROM 01.07.2022 to 30.06.2023)

me of nel / RD	Period	Discharge	Rate	Amount	Remarks
na Disty 1-2/R	01-07-2022 TO 30-06-2023 (One Year)	3.00 Cs	Rs: 35000/ Per Cs: Per Year	Rs: 105000/-	Rate fixed vide , Government of Punjab Irrigation Deptt Lahore Notification No. SO(REV) IRR/2-19/97 Dated: 12.06.2014

Total:- Rs: 105000/-

(Rs: One Lac & Five Thousand Only)

Sub Engineer
Shahbazpur Section

Sub Divisional Officer
Lamma Canal Sub Division
Ahmadpur Lamma

Approval for Rs. 105000/-
(One Lac & Five Thousand only)

Executive Engineer
Dallas Canal Division
Rahim Yar Khan

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ANNEX-VI

Copy of Contract for Ash Sale

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E-STAMP

2077
12-11-22

PB-RYK-32F8B4ECC3BA99FC

Low Denomination

Rs 100/-

ID :
Note :
Amount :
Description : AGREEMENT OR MEMORANDUM OF AN AGREEMENT - 5(ccc)
Applicant : Ameer Ahmad [31304-9044925-3]
S/O : Imam Bakhsh
Address : Shahid Colony Sadiqabad
Issue Date : 12-Nov-2022 11:38:32 AM
Delisted On/Validity : 19-Nov-2022
Amount in Words : One Hundred Rupees Only
Reason : Agreement JDW II
Vendor Information : Ammar Khalid | PB-RYK-230-34 | Tehsil Court Sadiqabad

نوٹ :یہ ٹرانزیکشن تاریخ اجرا سے سات دنوں تک کے لیے قابل استعمال ہے۔

معاہدہ برائے بوائلر راکھی شفٹنگ شوگر پلانٹ برائے (سیزن 2022-23)

یہ معاہدہ امیر احمد ولد امام بخش قومی شناختی کارڈ نمبر 31304-9044925-3 شاہد کالونی، تحصیل صادق آباد ضلع رحیم یار خان (فریق اوّل) اور میسرز JDW شوگر ملز لمیٹڈ یونٹ نمبر 2 کوٹلہ صادق آباد (فریق دوئم) کے مابین مورخہ 27.10.2022 کو باہمی رضامندی اور درج ذیل شرائط پر طے پایا ہے۔

(1)۔ فریق اول (ٹھیکیدار) راکھی شفٹنگ کے لئے 3 عدد ٹریکٹر بمعہ ڈمپر اور ڈرائیورز ملزا انتظامیہ کو مہیا کرے گا۔ جو کہ بوائلر سے نکلنے والی راکھی شوٹ سے ملز کے باہر راکھی یارڈ میں شفٹ کرنے کا پابند ہوگا۔ اس کام کے عوض فریق دوئم (ملزا انتظامیہ) مبلغ -/300,000 روپے (تین لاکھ روپے) ماہانہ فریق اول (ٹھیکیدار) کو ادا کرے گا۔ اس میں سیلز ٹیکس شامل ہے۔

(2)۔ فریق اول (ٹھیکیدار) سیلز ٹیکس انوائس دینے کا پابند ہوگا ورنہ سیلز ٹیکس کی رقم اس کے ماہانہ بل سے کٹوتی کر لی جائے گی۔

(3)۔ فریق اول (ٹھیکیدار) انتظامیہ کی ہدایت کیمطابق راکھی ڈالے گا۔ تاکہ راستہ کلیئر رہے اور یارڈ میں زیادہ سے زیادہ راکھی ڈالی جا سکے۔

(4)۔ ٹریکٹر کے ڈیزل، موبل آئل اور مرمت کے تمام اخراجات بذمہ فریق اول (ٹھیکیدار) ہونگے۔ ٹریکٹرز خراب ہونے کی صورت میں اس کی جگہ فوراً دوسرا ٹریکٹر مہیا کرنا ہوگا۔ ٹریکٹرز 24 گھنٹے چالو حالت میں ہوں گے۔

(5)۔ اگر ٹریکٹرز خراب ہونے کے باعث انتظامیہ کو اپنے ٹریکٹر استعمال کرنے پڑے تو فریق اول (ٹھیکیدار) کو بھاری جرمانہ کیا جائے گا جو کہ مبلغ -/500 روپے فی گھنٹہ کے حساب سے بل میں کٹوتی کی جائے گی۔

(6)۔ ڈپٹی جنرل منیجر (سیکورٹی & ایڈمن) صاحب کسی بھی وقت فریق اول (ٹھیکیدار) کے کام کو چیک کر سکتے ہیں۔ دوران چیکنگ اگر کسی قسم کی کوتاہی یا کمی پائی گئی تو فریق اول کو 2 گھنٹے کا نوٹس دیا جائے گا۔

(7)۔ راکھی کی لوڈنگ کے دوران اگر راکھی کے علاوہ کوئی چیز (سکریپ وغیرہ) گاڑی سے برآمد ہوئی تو اس کی تمام تر ذمہ داری فریق اول (ٹھیکیدار) پر ہوگی۔

(8)۔ فریق اول (ٹھیکیدار) راکھی کے ایریا کی صفائی ستھرائی رکھنے کا پابند ہوگا۔

(9)۔ فریق اول (ٹھیکیدار) بل کی ادائیگی ہر ماہ کی سات تاریخ کو ہوگی۔ ہر بل جنرل منیجر (مکینیکل) صاحب کی منظوری کے بعد ادا کیا جائے گا۔

(10)۔ تمام واجب الادا ٹیکس (انکم ٹیکس، E.O.B.I، سوشل سیکیورٹی) بذمہ فریق اول ہونگے۔

(11)۔ فریق اول (ٹھیکیدار) مبلغ -/100,000 روپے (ایک لاکھ روپے صرف) بطور ایڈوانس جمع کروائے گا۔

(12)۔ فریق دوئم (ملزا انتظامیہ) کسی بھی وجوہات کی بنا پر بغیر نوٹس دیئے موجودہ ایگریمنٹ کینسل کرنے کا مجاز ہوگا۔

(13)۔ کسی قسم کے تنازعہ کی صورت میں فریق دوئم کا فیصلہ حتمی ہوگا۔

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(14)۔ کام میں کسی قسم کی خرابی کے باعث فریق اول کو مکمل ذمہ داری کے حساب سے جرمانہ کیا جائیگا جو کہ ٹھیکیدار کے بل میں سے کاٹا جائیگا۔

(15)۔ ڈیزل کے ریٹ کا اتار چڑھاؤ معاہدہ پر اثر انداز نہ ہوگا۔

(16)۔ فریق اول (ٹھیکیدار) کو چلنے سے ایک دن قبل مشینری وغیرہ کو جگہ میں پہنچنے کا پابند ہوگا۔

فریق اول (ٹھیکیدار) :۔

امیر احمد ولد امام بخش

شناختی کارڈ نمبر 31304-9044925-3

فریق دوئم (کو انتظامیہ) :۔

جنرل منیجر

ڈپٹی جنرل منیجر

(سیکورٹی اینڈ ایڈمن)

گواہان:

گواہ نمبر 1 مشتاق وسیم ندیم (بیسٹ سروے شعبہ)

گواہ نمبر 2 ارشاد علی (مالونی سیکیورٹی)

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ANNEX-VII

Copy of Contract for Mud Sale

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E-STAMP

-4490-

17-12-2022

PB-RYK-2087F1GCFC415F4B
Low Denomination
Rs 100/-

Scan for online verification

AFFIDAVIT - 4
SARDAR ALI[15601-1258363-7]
MIAN SAYED ZAREEN
FAZIL PANDA BAHA TEHSIL MATTA DISTRICT SAWAT PRESENT SADIQ ABAD
17-Dec-2022 12:40:30 PM
24-Dec-2022
One Hundred Rupees Only
AFFIDAVIT
Ahmad Hussain | PB-RYK-10c | Ahata Katchehri Sadiqabad

Ahmad Hussain
STAMP VENDOR
Lic # PB-RYK-10C
Tehsil Court Sadiq Abad

Type "eStamp <18 digit eStamp Number>" send to 8100

(Revised Agreement)

معاہدہ برائے گیلی اور خشک مڈ (برائے سیزن 2022-23)

یہ معاہدہ (فریق اول) مسٹر سردار علی ولد میاں سیدزرین قومی شناختی کارڈ نمبر 15601-1258363-7 قاضل پاڈہ، ڈاکخانہ بہاء، تحصیل متہ، ضلع سوات اور (فریق دوئم) میسرز بے ڈی ایل شوگر انڈسٹریز یونٹ 2 جمی گوٹھ ساوتی آباد (فریق دوئم) کے مابین سابقہ معاہدہ جو کہ مورخہ 15.11.2022 کو -/2130 روپے فی میٹرک ٹن کے حساب سے طے پایا تھا کہ جس مورخہ 18.12.2022 کو تبدیل ہو کر -/1650 روپے فی میٹرک ٹن کے حساب سے باہمی رضامندی اور درج ذیل شرائط پر طے پایا ہے۔

ریٹ:۔

1) فریق اول (ٹھیکیدار) نے ویٹ اپریسڈ مڈ مورخہ 25.11.2022 سے 17.12.2022 تک مبلغ -/2130 فی میٹرک ٹن وزن کے حساب سے اور مورخہ 18.12.2022 سے مبلغ -/1650 روپے فی میٹرک ٹن وزن کے حساب سے فریق دوئم (فرانتظامیہ) سے خریدی ہے۔

2) فریق اول (ٹھیکیدار) اس معاہدہ کے عوض مبلغ -/10,000,000 روپے (ایک کروڑ روپے صرف) بطور ایڈوانس جمع کرانے کا پابند ہوگا۔ جو کہ ٹھیکہ کی تمام تر شرائط وضوابط پر مکمل کارکردگی کے بعد فرانتظامیہ کے اعلیٰ حکام کی منظوری پر واپس کر دیئے جائیں گے۔

مڈ کی رقم جمع کروانے کا طریقہ کار:۔

- فریق اول (ٹھیکیدار) گیلی مڈ اصل وزن پر فروخت کرے گا۔
- فریق اول (ٹھیکیدار) دوران سیزن جو گیلی مڈ فروخت کرے گا اس کی مد میں خریدشدہ ریٹ مورخہ 18 دسمبر 2022 سے مبلغ -/1650 روپے فی میٹرک ٹن کے حساب سے ہوگا۔ لیکن ٹھیکیدار ایڈوانس 1000 میٹرک ٹن گیلی مڈ کی رقم دوران سیزن اور 500 میٹرک ٹن خشک مڈ کی رقم آف سیزن فریق دوئم کو بطور ایڈوانس جمع کرائے گا۔ اگر ٹھیکیدار -/2050 روپے سے زیادہ ریٹ پر مڈ فروخت کرے تو 50% منافع فرانتظامیہ کو جمع کروائے گا۔ فریق اول (ٹھیکیدار) سیزن کے اختتام تک اسی طریقہ کار سے رقم جمع کروانے کا پابند ہوگا۔
- مڈ کی پیمنٹ فریق اول (ٹھیکیدار) کے بنک اکاؤنٹ کے ذریعے فرانتظامیہ کے اکاؤنٹ میں آئے گی۔
- فریق اول (ٹھیکیدار) 30 ستمبر 2023 تک مڈ کی تمام رقم جمع کروانے کا پابند ہوگا۔ چاہے مڈ فروخت ہو یا نہ ہو اس کی تمام تر ذمہ داری فریق اول (ٹھیکیدار) کی ہوگی۔
- بائپروڈکٹ کی گئی سوکھی مڈ کا ریٹ -/5000 روپے فی ٹن کے حساب ہوگا۔ جو کہ 25/11/2022 سے لاگو ہوگا۔

1/1

شرائط وضوابط:۔

1) فریق اول (ٹھیکیدار) نے دوران سیزن پیداشدہ ویٹ (گیلی) مڈ جبکہ بچت ویٹ مڈ خشک ہونے پر وزن کے حساب سے فرانتظامیہ سے خریدی ہے۔ جس کا وزن فرانتظامیہ کے (Weighbridges) پر ہوگا۔

2) فریق اول (ٹھیکیدار) گیلی مڈ شفٹنگ کیلئے کم از کم 8 عدد ٹریکٹرز بمعہ ڈمپر اور 2 لیبر فی شفٹ لیبر کا انتظام کرنے کا پابند ہوگا۔ اور ٹریکٹروں کی تمام رجسٹریشن، موبل آئل، ڈیزل آئل مڈ ٹھیکیدار ہوگا۔

3) ٹریکٹروں کی تعداد میں کمی بیشی کی صورت میں فریق اول کو مبلغ -/110000 روپے فی ٹریکٹر ڈمپر ماہانہ کے حساب سے چارج کئے جائیں گے۔

4) فریق دوئم (فرانتظامیہ) گیلی مڈ اسٹاک کرنے کیلئے مڈیارڈ کی زمین 8 (آٹھ) ایکڑ تک مہیا کرے گا اس سے زیادہ رقبہ استعمال ہوگا تو فریق اول (ٹھیکیدار) اس کا خود بندوبست کرے گا۔

5) فریق اول (ٹھیکیدار) مڈ شوٹ سے گیلی مڈ کی لوڈنگ، انلوڈنگ اور مڈ شوٹ اور اس کے ایریا کی صفائی کا ذمہ دار ہوگا۔

ATTESTED
Jan Sharqat Muhammad
Tehsil Courts Sadiqabad

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6) فریق اول (ٹھیکیدار) تحریری طور انتظامیہ کی تعین کردہ جگہ پر ان لوڈ کرے گا اور 30 اگست 2023ء تک جگہ خالی کرنے کا پابند ہوگا۔ جگہ خالی نہ کرنے کی صورت میں ستاروں کی رقم فریق اول (ٹھیکیدار) کی جائے گی۔

7) فریق اول (ٹھیکیدار) کی کوتاہی کی صورت میں اگر طرز انتظامیہ کو اپنی لیبر اور ٹریکٹر ٹرالی وغیرہ استعمال کرنے تو اس کے اخراجات بذمہ فریق اول (ٹھیکیدار) ہونگے۔ ان خراجات کے علاوہ فریق اول کو روپے فی گھنٹہ یا 10 ہزار روپیہ کے حساب سے چارج کئے جائیں گے۔

8) ٹریکٹر ٹرالی خراب ہونے کی صورت میں فریق اول ایک یوم کے اندر اندر دوسرا ٹریکٹر ٹرالی مہیا کرنے کا پابند ہوگا ورنہ اس سے درج بالا ریٹ کے مطابق روزانہ کے حساب سے چارج کیا جائے گا۔

9) دوران آف سیزن فلنگ مٹی کی لوڈنگ کی اطلاع فریق دوئم کو ایک روز قبل دے گا۔ تاکہ سیکورٹی گارڈ کی موجودگی میں مٹی کی لوڈنگ کرائی جائے۔ جس کا باقاعدہ وزن طرز کے اخراجات پر ہوگا۔

10) کام میں کسی قسم کی خرابی کی صورت میں مثلاً شوٹ چوک ہونا وغیرہ فریق اول (ٹھیکیدار) کو کم از کم مبلغ -/10,000 روپے فی چوک تاوان پر جرمانہ کیا جائیگا۔

11) ٹرالی میں ڈالی گئی مٹی کی نگرانی اور رکھوالی بارش میں ضائع ہونا اور خدانخواستہ آگ لگنا تمام تر ذمہ داری فریق اول (ٹھیکیدار) پر ہوگی۔

12) دوران فلنگ سڑک اور راستہ میں گری ہوئی مٹی جو کہ پھسلن کا باعث بنتی ہے راستہ کی صفائی کرے گا۔ اور اگر گری ہوئی مٹی کے باعث حادثہ پیش آیا تو اس کی تمام تر ذمہ داری فریق اول

13) کسی بھی قسم کی حادثہ کی صورت میں فریق اول (ٹھیکیدار) اپنی لیبر کے علاج معالجے کا خود ذمہ دار ہوگا۔

14) فریق دوئم کسی بھی وجوہات کی بناء پر بغیر نوٹس دیئے موجودہ ایگریمنٹ کینسل کرنے کا مجاز ہوگا۔

15) دوران سیزن ٹھیکیدار خود یا اس کا نمائندہ فنی وغیرہ طرز ہذا میں موجود رہے گا۔

16) فریق اول (ٹھیکیدار) اپنے تمام ٹریکٹروں کے کاغذات طرز ہذا کو جمع کروانے کا پابند ہوگا۔

17) فریق (اول) ٹھیکیدار ٹریکٹر ٹرالی چلانے والے ڈرائیوروں کا ڈرائیونگ لائسنس لازمی مہیا کرے گا۔

18) کسی قسم کے تنازعہ کی صورت میں فریق دوئم کا فیصلہ حتمی ہوگا۔

19) فریق اول (ٹھیکیدار) اپنی لیبر کا ریکارڈ رکھنے کا پابند ہوگا۔

20) گورنمنٹ کے تمام واجب الادا ٹیکس (انکم ٹیکس، E.O.B.I، سوشل سیکورٹی) بذمہ فریق اول (ٹھیکیدار ہونگے۔ جس کلیئرنس سرٹیفکیٹ متعلقہ اداروں سے لیکر طرز میں جمع کروائے گا۔

21) فریق اول (ٹھیکیدار) طرز ہذا کے تمام قوانین ضوابط کی سختی سے پابندی کرے گا۔

22) ایسے افراد جن کا طرز ہذا گیٹ کے اندر داخلہ بند ہے ان کو اپنے پاس ملازم نہیں رکھے گا۔

23) فریق اول (ٹھیکیدار) اور اس کی لیبر کی رہائش کا انتظام فریق دوئم (طرز انتظامیہ) کرے گا۔

24) فریق اول (ٹھیکیدار) طرز چلنے سے ایک عدد قابل لیبر ز ٹریکٹر ڈرائیور وغیرہ لیکر طرز ہذا میں پہنچنے کا پابند ہوگا۔

فریق اول (ٹھیکیدار) :۔

میں اس معاہدہ میں دی گئی تمام شرائط وضوابط قبول کرتا ہوں۔

سردار علی ولد میاں سیدوریں

شناختی کارڈ نمبر 15601-1258363-7

گواہ نمبر 1 مسٹر داس ندیم

J134-J/2:9642-1

فریق دوم (طرز انتظامیہ) :۔

جنرل منیجر

(ڈپٹی جنرل منیجر (سیکورٹی اینڈ ایڈمن)

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ANNEX-VIII

Copy of Contract for Molasses Sale

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JDW Sugar Mills Ltd.

MASTER AGREEMENT

is MASTER AGREEMENT is made at this 14th day of June, 2022 by and between the
owing parties:

W Sugar Mills Limited, a public limited company duly constituted and existing under the
ws of Pakistan, having its registered office at 17-Abid Majeed Road, Lahore Cant., acting
ough its Group Director (Finance) Mr. Muhammad Rafique, (hereinafter referred to as
"JDWSML" which expression shall mean and include its administrators, permitted assignees,
al representatives and successors) of the **First Part**.

AND

Abbas Sugar Mills Limited, a public listed company duly constituted and existing under
laws of Pakistan, having its registered office at 2nd Floor, Pardesi House, Survey No. 2/1,
16 Old Queen Road, Karachi acting through its Chief Executive, Mr. Asim Ghani Usman
reinafter referred to as "ASML" which expression shall mean and include its
inistrators, permitted assignees, legal representatives and successors) of the **Second Part**.

DWSML and ASML shall hereinafter be collectively referred to as the "Parties").

EREAS

a) JDWSML is engaged in the business of, inter alia, manufacturing white refined sugar and other by-products, such as molasses, at its mills at Jamal Din Wali, Sadiqabad district Rahim yar Khan and Ghotki (the "Mills").

b) ASML is engaged in the business of, inter alia, manufacturing ethanol at its distillery at Mirwah Gorchani, Distt. Mirpurkhas, Sindh.

c) ASML wishes to buy, and JDWSML wishes to sell, molasses subject to and in accordance with the provisions of this Master Agreement.

OW BOTH THE PARTIES AGREE UPON AND UNDERTAKE AS FOLLOWS: -

Subject to the terms and conditions of this Master Agreement and in particular compliance by ASML with the requirements of Clause 2 below, JDWSML hereby agrees to give a first right of refusal to ASML for purchase of up to 37,500 tons of molasses (the "Molasses") produced at its Mills during the sugarcane crushing season 2022-23 (the "Season").

ASML shall deposit with JDWSML an aggregate sum of Rs. 500,000,000/- (Rupees Five Hundred Million only) (the "Advance Payment") as an advance payment on or before 25th September, 2022.

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The Advance Payment shall be adjusted against payment for the Molasses purchased by ASML from JDWSML in terms of this Master Agreement from time to time. This Master Agreement shall become effective only to the extent the aforementioned Advance Payment is received by JDWSML.

JDWSML shall not sell any Molasses to a third party unless it has first offered (each an "Offer") such Molasses to ASML in writing (which may include through email or WhatsApp), and ASML has failed to accept in writing (which may include through email or WhatsApp) the Offer from JDWSML within the mutually agreed time period. The price (each a "Sale Price") at which any Molasses will be offered to ASML will be the prevailing market price at which JDWSML has received an offer to purchase molasses from a third party (the "Market Price") (which Market Price shall be duly communicated to ASML in the Offer) less a discount calculated in accordance with Clause 5 below (the "Discount"). For the avoidance of doubt, it is clarified that the right of first refusal in terms of this Master Agreement is only limited up to the sales of 37,500 tons of molasses produced by JDWSML during the Season.

If ASML accepts any Offer in accordance with Clause 3 above, the Parties shall forthwith enter into a legally binding sale and purchase agreement in form and substance acceptable to both Parties (the "Sale Agreement"). If ASML declines an Offer, JDWSML shall, if so, requested by ASML, refund to ASML a portion of the Advance Payment equivalent to the Market Price mentioned in the Offer along with mark-up at the rate of 3MK plus 87 bps per annum to be calculated on such refunded amount from the date of Advance Payment till date of refund. The aforementioned amount shall be refunded within a mutually agreed time. (3 Months KIBOR Ask Rate to be re-set on 1st day after every announcement of SBP Monetary Policy.)

Each Sale Price for a sale and purchase of Molasses shall be paid to/received by JDWSML at time of the relevant Sale Agreement by, inter alia, adjustment against the Advance Payment (and/or by cash payment if the Advance is insufficient). The Sale Price shall be calculated by deducting the Discount from the Market Price. The Discount shall be calculated as follows:

Discount = Market Price x Mark up rate x N/365, where N is the number of days between the date of Advance Payment and the date of the relevant Sale Agreement.

For the avoidance of doubt, nothing in this Master Agreement is intended to be nor shall be construed as a sale or purchase of the Molasses. All sales and purchase of the Molasses shall be pursuant to the Sale Agreements, if any, executed from time to time between the Parties in terms of this Agreement.

On receipt of a request by ASML any time after June 30, 2023, JDWSML shall refund to ASML the balance/unadjusted amount of the Advance Payment along with mark-up at the rate of 3MK plus 87 bps per annum to be calculated on such balance/unadjusted amount from the date of Advance Payment till date of refund. The balance/unadjusted

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JDW

amount shall be the Advance Payment minus the aggregate of Sale Prices adjusted in terms of Clause 5 above and the aggregate of amounts earlier refunded to ASML in terms of Clause 4 above. On payment of a refund, the right of first refusal of ASML shall pro-rata stand reduced.

Each Party hereby represents and warrants to the other that:

(a) it has full corporate power and authority and is duly authorized under applicable law and its by-laws, to own its properties and to conduct its business as presently conducted and as herein contemplated, and to enter into and perform this Master Agreement and each Sale Agreement in accordance with the terms hereof and thereof respectively; and

(b) neither such entering into nor such performance of this Master Agreement or each Sale Agreement violates or will violate by-laws or any loan agreement, lease agreement, indenture or other instrument, or any federal and local law, regulation or ordinance applicable to such Party or by which it is bound.

Each Party's obligations (other than payment obligations) under this Master Agreement and each Sale Agreement and under any permit or invoice submitted by either Party to the other hereunder shall be excused and suspended during the existence of any event of force majeure, which shall consist of a strike, work stoppage or other labor dispute or a war, riot, fire, flood, storm or other Act of God beyond the control of such Party, or which may consist of a governmental or governmental agency order of general or geographic area-wide application that is not directed solely at such Party, but only to the extent that such event is responsible for such Party's non-performance of any such obligation. Neither Party shall be responsible or liable for any loss, damage, injury, cost or expense suffered, incurred or sustained by the other Party by reason of such nonperformance due to force-majeure.

Neither Party shall, without the prior written consent of the other Party, assign, transfer, subcontract this Master Agreement or take any other action that shall constitute, give rise to or result in the assignment, transfer or subcontracting of any of its duties or obligations hereunder.

This Agreement constitutes the entire agreement between the Parties concerning its subject matter, entirely superseding any prior agreements or understanding, oral or in writing, concerning such subject matter. It may be modified, supplemented, amended or terminated only by a written instrument signed by a duly authorized representative of each Party.

If any question, controversy, difference or dispute whatsoever shall arise between or among the Parties hereto, regarding this Agreement or any clause or thing herein contained or the construction thereof, or as to any matter in anyway connected therewith or arising therefrom, which cannot be amicably settled, the same shall be referred to a sole arbitrator in accordance with the Arbitration Act, 1940 for the time being in force. If the Parties cannot agree to the appointment of a sole arbitrator, then

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ch Party shall appoint their respective arbitrator(s), and the arbitrators shall jointly ppoint an Umpire who shall be called upon to render his decision only if the two rbitrators give different awards. The decision of the Umpire shall be final and shall not e challenged or assailed in any court except as permitted under the provisions of the rbitration Act, 1940, as amended or replaced from time to time. The venue of rbitration will be Karachi, Pakistan. Courts at Karachi will have exclusive jurisdiction a respect thereof.

ITNESS WHEREOF, the Parties have caused this Agreement to be duly executed and ted as of the date first above mentioned

ITNESS:

Signature: _____

Name: M Sabir

Address: C/o IT Abid Majeed RA LHR

CNIC No. 35202-2695134-7

for and on behalf of
JDW Sugar Mills Limited

By: Muhammad Rafique
Title: Group Director (Finance)

Signature: _____

Name: Zuhair Abbas

Address: C/o. Al-Abbas Sugar Mills HQ

CNIC No. 42101-4014966-9

for and on behalf of
Al-Abbas Sugar Mills Limited

By: Asim Ghani Usman
Title: Chief Executive

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each Party shall appoint their respective arbitrator(s), and the arbitrators shall jointly appoint an Umpire who shall be called upon to render his decision only if the two arbitrators give different awards. The decision of the Umpire shall be final and shall not be challenged or assailed in any court except as permitted under the provisions of the Arbitration Act, 1940, as amended or replaced from time to time. The venue of arbitration will be Karachi, Pakistan. Courts at Karachi will have exclusive jurisdiction in respect thereof.

WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed and delivered as of the date first above mentioned

WITNESS:

Signature: _____

Name: M. Sabir

Address: C/O 17 Abid Majeed Rd Lhr

CNIC No. 35202-2695134-7

for and on behalf of
JDW Sugar Mills Limited

By: Muhammad Rafique
Title: Group Director (Finance)

Signature: _____

Name: Zuhair Abbas

Address: C/o. Al-Abbas Sugar Mills Ltd.

CNIC No. 42101-4014966-9

for and on behalf of
Al-Abbas Sugar Mills Limited

By: Asim Ghani Usman
Title: Chief Executive

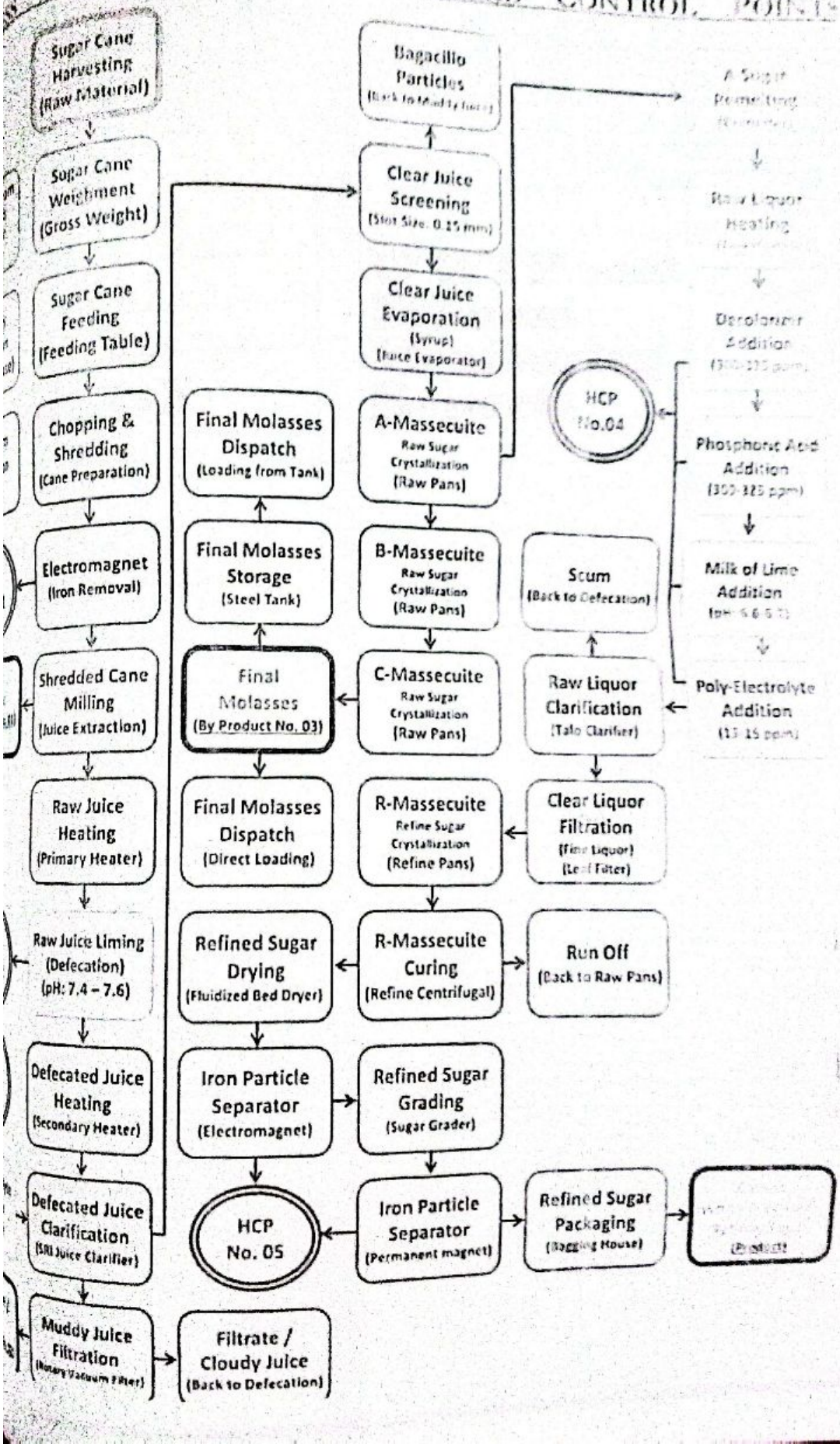
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ANNEX-IX

Process Flow Chart

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FLOW CHART WITH HALAAL CONTROL POINTS



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ANNEX-X

WWTP and Effluent Monitoring Reports

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Annexure A

STACK EMISSION MONITORING REPORT

Our Ref.: I&E - LHR - 5015593/2022

Test Report No. 949581

31-Mar-22

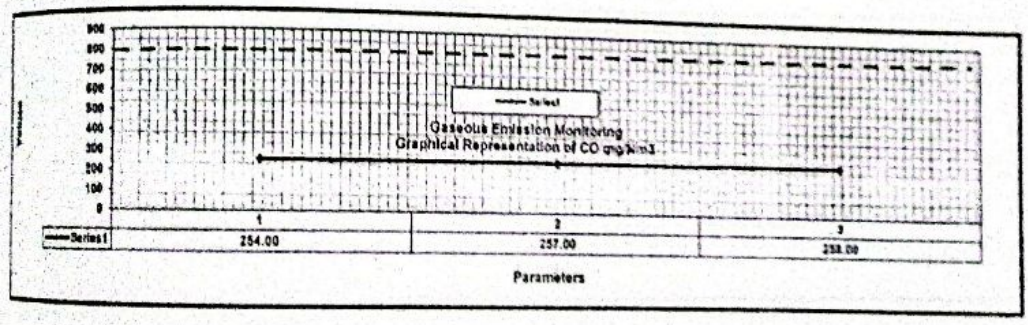
Client:	JDW Unit-II
Address:	Co-Gen Power Plant JDW-II Machi Goth, Sadiqabad.
Nature of Monitoring:	Stack Emission
Date of Intervention:	15-Mar-22
Monitoring Location:	Co-Gen Power Plant JDW-II
Monitoring Point:	Boiler No. 01 (140 Ton)
Time of Intervention:	10:00
Load:	100%
Fuel Type:	Bagasse

Parameters	Method	Unit	Reading 01	Reading 02	Reading 03	Limits as per PEQS	Remarks
CO_2	ctm 34	%	13.90	13.90	14.50	-	All Values are in compliance with PEQS limit.
O_2		%	6.60	6.50	6.40	-	
CO		mg/Nm³	254.00	257.00	258.00	800	
SO_2		mg/Nm³	0.00	0.00	0.00	NS	
NO_2		mg/Nm³	0.00	0.00	0.00	-	
NO		mg/Nm³	371.00	376.00	375.00	-	
NOx		mg/Nm³	371.00	376.00	375.00	NS	
Smoke	USEPA 09	R.M Scale	1.00			2	
Particulate Matter	In-House	mg/Nm³	58.10			NS	

IS : Not Specified

*NOx limits as per PEQS:

Gas Fired:	400
Oil Fired:	600
Coal fired:	1200



	1	2	3
Series1	254.00	257.00	258.00

PEQS Limits :

Actual Reading :

SGS PAKISTAN (PVT.) LTD.

Monitored By	Laboratory / Field In charge	Chief Analyst / DH
Mr. Usman Riasat	Mr. Maqbool Alam	Mr. Ali Hashim

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Annexure-A

STACK EMISSION MONITORING REPORT

Our Ref.: I&E - LHR - 1119/21 (B.O No.5014307)

Test Report No. 949472

5-Jan-22

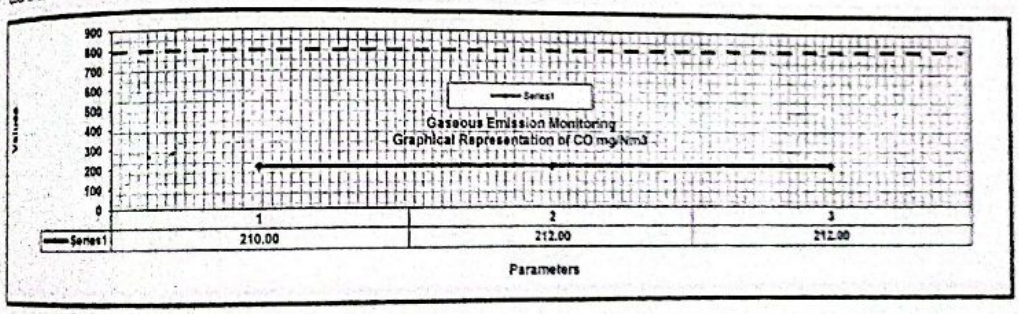
Client:	JDW Unit-II
Address:	Co-Gen Power Plant JDW-II Machi Goth, Sadiqabad.
Nature of Monitoring:	Stack Emission
Date of Intervention:	27-Dec-21
Monitoring Location:	Co-Gen Power Plant JDW-II
Monitoring Point:	Boiler No. 01 (140 Ton)
Time of Intervention:	12:30
Load:	100%
Fuel Type:	Bagasse

Parameters	Method	Unit	Reading 01	Reading 02	Reading 03	Limits as per PEQS	Remarks
CO_2	ctm 34	%	13.29	13.29	13.29	-	All Values are in compliance with PEQS limit.
O_2		%	7.06	7.06	7.06	-	
CO		mg/Nm³	210.00	212.00	212.00	800	
SO_2		mg/Nm³	11.00	12.00	12.00	NS	
NO_2		mg/Nm³	31.00	32.00	32.00	-	
NO		mg/Nm³	175.00	176.00	176.00	-	
NOx		mg/Nm³	206.00	208.00	208.00	NS	
Smoke	USEPA 09	R.M Scale	1.00			2	
Particulate Matter	In-House	mg/Nm³	56.50			NS	

Not Specified

NS :
*Max limits as per PEQS:

Gas Fired:	400
Oil Fired:	600
Coal fired:	1200



PEQS Limits : - - - - - - -

Actual Reading : ———————

SGS PAKISTAN (PVT.) LTD.

Monitored By	Laboratory / Field In charge	Chief Analyst / DH
Mr. Kashif / Mr. Zulfiqar	Mr. Maqbool Alam	Mr. Ali Hashim

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SGS

STACK EMISSION MONITORING REPORT

Our Ref.: I&E - LHR - 548/20 (B.O No. 5012329)

Client: JDW Unit-II

Test Report No. 946816

Address: Co-Gen Power Plant JDW-II Machi Goth, Sadiqabad.

12-Jul-21

Nature of Monitoring: Stack Emission

Date of Intervention: 29-Jun-21

Monitoring Location: Co-Gen Power Plant JDW-II

Monitoring Point: Boiler No. 01 (140 Ton)

Time of Intervention: 13:15

Load: 73%

Fuel Type: Bagasse

Parameters	Method	Unit	Reading 01	Reading 02	Reading 03	Limits as per PEQS	Remarks
CO_2	ctm 34	%	10.40	10.40	10.40	-	All Values are in compliance with PEQS limit.
O_2		%	7.60	7.60	7.60	-	
CO		mg/Nm³	24.00	27.00	36.00	800	
SO_2		mg/Nm³	0.00	0.00	0.00	NS	
NO_2		mg/Nm³	18.00	21.00	23.00	-	
NO		mg/Nm³	132.00	135.00	137.00	-	
NOx		mg/Nm³	150.00	156.00	160.00	NS	
Smoke	USEPA 09	R.M Scale	1.00			2	
Particulate Matter	In-House	mg/Nm³	35.81			NS	

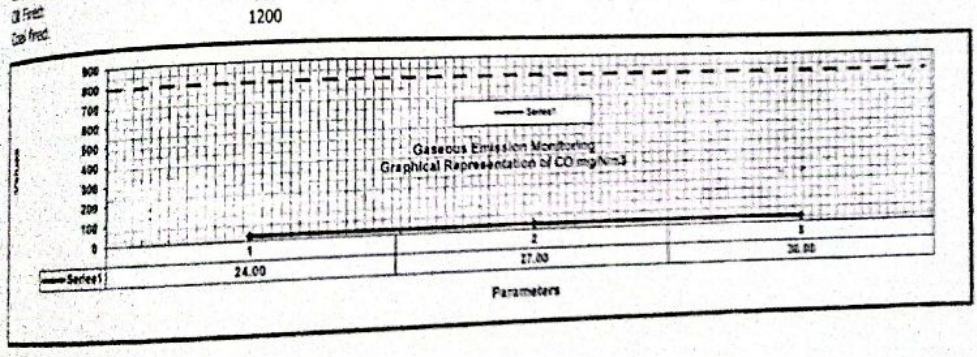
NS: Not Specified

PEQS limits as per PEQS:

Gas Fired: 400

Oil Fired: 600

Coal fired: 1200



PEQS Limits :

Actual Reading :

SGS PAKISTAN (PVT.) LTD.

Monitored By	Laboratory / Field In charge	Chief Analyst / DH
Mr. Asad / Mr. Sarmad	Mr. Maqbool Alam	Mr. Ali Hashim

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GOVERNMENT OF PAKISTAN
Ministry of Science & Technology
Pakistan Council of Scientific & Industrial Research
Laboratories Complex, Lahore

Doc # LLC/QM/FP/42 | Date: Jan. 01, 2020 | Rev # 06

000137

TEST REPORT

Report No. CEPS/MHK/301/23

Date: 05-04-2023

Name and Address of the Customer:	M/S JDW Sugar Mills Ltd, 17-Abid Majeed Road, Lahore Cantt. Lahore.		
Request Ref # and Date:	Nil dated 21-03-2023		
Description of Sample:	Treated Wastewater (JDW Unit-II, ETP Out)	Sheet No.	One of one
ILO Log # and Date:	1054 dated 28-03-2023	No. of sample:	One
Method used Specs:	Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017	Ref/Code #	CEPS/301/23
		Temp. & Humidity:	21.0-24.4 °C 64-96 %
Statement of non-compliance:	Nil	Testing date:	29-03-2023 to 04-04-2023

RESULTS

Parameters	Method #	Results	Units	NEQS
pH value at 25 °C	4500- H+ B	7.81	—	6 - 10
COD	5220-B	53.0	mg/L	150 mg/L
BOD_5 at 20 °C	5210-B	31.8	mg/L	80 mg/L
Oil & Grease	5520-B	6.0	mg/L	10 mg/L
Total Dissolved Solids	2540-C	1474.0	mg/L	3500 mg/L
Total Suspended Solids	2540-D	53.0	mg/L	200 mg/L

END

Term and conditions over leaf

Prepared by:
Dr. Naeem Abbas
Senior Scientific Officer
CEPS, PCSIR Labs. Complex
MR/Section Incharge

Centre for Environmental Protection Studies
PCSIR Labs. Complex, Lahore
Head of the Centre

Counter signature
6.4.23
Director General

Tel Direct No: 042-99230574; PABX No.042-99230688-95, Ext: 216-17, 363, Fax: 042-99230705
Email: illog@pcsir-lhr.gov.pk; ilopcsirlhr@gmail.com; website: www.pcsir-lhr.gov.pk

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GOVERNMENT OF PAKISTAN
Ministry of Science & Technology
Pakistan Council of Scientific & Industrial Research
Laboratories Complex, Lahore

000137

TEST REPORT

Report No. CEPS/MHK/391/23

Date: 06-04-2023

Name and Address of the Customer:	M/S JDW Sugar Mills Ltd. 17-A/388 Shajood Road, Lahore Cantt. Lahore
Request Ref # and Date:	Nil dated 21-03-2023
Description of Sample:	Treated Wastewater (JDW Unit-II, ETP Out)
ILO Log # and Date:	1084 dated 28-03-2023
Method used Specs:	Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Statement of non-compliance:	Nil

Sheet No. [illegible] Out of [illegible]
No. of sample [illegible]
Ref/Code # [illegible]
Temp. & Humidity [illegible]
Testing date [illegible]

RESULTS

Parameters	Method #	Results	Units	NEQS
pH value at 25 °C	4500- H+ B	7.81	—	6 - 10
COD	5220-B	53.9	mg/L	150 mg/L
BOD_5 at 20 °C	5210-B	31.8	mg/L	80 mg/L
Oil & Grease	5520-B	6.9	mg/L	10 mg/L
Total Dissolved Solids	2540-C	1474.0	mg/L	3500 mg/L
Total Suspended Solids	2540-D	53.0	mg/L	200 mg/L

♦ ---------- ♦ END ♦ ---------- ♦

Term and conditions over leaf

Prepared/Checked

Dr. Naeem Abbas
Senior Scientific Officer
CEPS, PCSIR Labs. Complex, Lahore
MR/Section Incharge

Centre for Environmental Protection
PCSIR Labs. Complex, Lahore
Head of the Centre

Counter signature

Director General

Tel Direct No: 042-99230574; PABX No.042-99230688-95, Ext: 218-17, 163, Fax: 042-99230765
Email: dirceps@pcsir.gov.pk; ceps.pcsir@gmail.com, website: www.pcsir.gov.pk

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GOVERNMENT OF PAKISTAN
Ministry of Science & Technology
Pakistan Council of Scientific & Industrial Research
Laboratories Complex, Lahore

107753

TEST REPORT

Report No. CEPS/MTR/144-R/22

Date: 21-03-2022

Name and Address of the Customer:	M/S JDW Sugar Mills Ltd, Unit-II, 17 Abid Majeed Road, Lahore Cantt.		
Request Ref # and Date:	Nil dated 28-02-2022	Sheet No.	One of one
Description of Sample:	Final Treated Wastewater (JDW Unit-II, ETP Out)	No. of sample:	One
ILO Log # and Date:	221 dated 04-03-2022	Ref/Code #	CEPS/144-R/22
Method used Specs:	Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017	Temp. & Humidity:	21.5-22.4 °C 61.5-63.5 %
Statement of non-compliance:	Nil	Testing date:	04-03-2022 to 10-03-2022

RESULTS

Parameters	Method #	Results	Units	NEQS
Temperature	2550	27.0	°C	40 °C
pH value at 25 °C	4500- H+- B	7.56	---	6 - 10
COD	5220-B	69.0	mg/L	150 mg/L
BOD_5 at 20 °C	5210-B	49.0	mg/L	80 mg/L
Oil & Grease	5520-B	8.0	mg/L	10 mg/l
Total Dissolved Solids	2540-C	442.0	mg/L	3500 mg/L
Total Suspended Solids	2540-D	32.0	mg/L	200 mg/L

*Sampling by PCSIR on client request (JDW Unit-II)

♦---------- ♦ END ♦ ----------♦

- This test/calibration certificate is based solely on the particular sample(s) supplied by the client and should not be reported in part.
- Sampling has not been performed by the PCSIR Labs and PCSIR does not accept the responsibility that the item(s) supplied is/are truly representative result(s) of any batch or stock or entire production.
- While the PCSIR agrees to take every reasonable precaution to ensure validity of its test results, it assumes no liability there of beyond the amount of the fee charged for the analysis/test.
- The party shall assume full responsibility for the ethical use of the results in the test/calibration certificate and the laboratory shall be held free from any and all claims, which may result from the use of such data by the client or others.
- After completion of the test/calibration the sample, if required will be retained for one month until negotiated otherwise.
- The contents of this certificate cannot be, in any manner, used for the publicity of the product or any advertisement.
- Uncertainty of measurements can be provided on request.

Prepared by
4/3/22
Dr. Naeem Abbas
Scientific Officer
CEPS, PCSIR Labs Complex
LAHORE-54600
Ph: +92 42 99231768

Head
Center for Environmental Protection Studies
PCSIR Labs. Complex Lahore

Counter signature
Director General (TUV)
21-03-22

Page 1 of 1

PCSIR Labs. Complex, Ferozepur Road, Lahore-54600 (Pakistan)
PABX No. +92 42 99230688 - 95 Fax: +92 42 99230705
Email: ilo@pcsir-dir.gov.pk; website: www.pcsir-dir.gov.pk

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Ministry of Science & Technology
Pakistan Council of Scientific & Industrial Research
Laboratories Complex, Lahore
FEROZEPUR ROAD, LAHORE 54600 - PAKISTAN

107637

Doc# LL/CAJMR/F9/030 | Issue Date: Jan 1st 2013 | Issue # 01 | Rev # 01

TEST REPORT

Report No. CEPS/MTB/73/2021

Date: 26-02-2021

Name and Address of the Customer:	M/S JDW Sugar Mills (Pvt) Ltd, Unit-II, 17-Abid Majeed Road, Lahore Cantt. Lahore.		
Request Ref # and Date:	PO # JD2-7542 dated: 09-02-2021	Sheet No.	One of one
Description of Sample:	Treated Waste Water (JDW-ETP-2)	No. of sample:	One
ILO Log # and Date:	589 Dated: 17-02-2021	Ref/Code #	CEPS/73/2021
Method used Specs:	Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017	Temp. & Humidity:	20.9-27.9 °C 65.3-67.3 %
Statement of non compliance:	Nil	Testing date:	19-02-2021 to 26-02-2021

RESULTS

Sr. No.	Parameters	Method #	Results	Units	NEQS
1.	pH value at 25 °C	4500- H+ B	7.07	—	6 – 10
2.	COD	5220-B	46.0	mg/L	150mg/L
3.	BOD_5 at 20°C	5210-B	25.0	mg/L	80mg/L
4.	Oil & Grease	5520-B	3.0	mg/L	10mg/L
5.	Total Dissolved Solids	2540-C	591.0	mg/L	3500mg/L
6.	Total Suspended Solids	2540-D	25.0	mg/L	200 mg/L

END

- This test/calibration certificate is based solely on the particular sample(s) supplied by the client and should not be reported in part.
- Sampling has not been performed by the PCSIR Labs and PCSIR does not accept the responsibility that the item(s) supplied is/are truly representative item(s) of any batch or stock or entire production.
- While the PCSIR agrees to take every reasonable precaution to ensure validity of its test results, it assumes no liability there of beyond the amount of the fee charged for the analysis/test.
- The party shall assume full responsibility for the ethical use of the results in the test/calibration certificate and the laboratory shall be held free from any and all claims, which may result from the use of such data by the client or others.
- After completion of the test/calibration the sample, if required, will be retained for one month until negotiated otherwise.
- The contents of this certificate cannot be, in any manner, used for the publicity of the product or any advertisement.
- Uncertainty of measurements can be provided on request.

Farah Deeba 26-2-21
Prepared by:
Dr. Farah Deeba Ansari
Senior Scientific Officer
CEPS, PCSIR Labs. Complex
LAHORE

Section Incharge

Head
Centre for Environmental Protection Studies
PCSIR Labs. Complex, Lahore
Head of the Centre

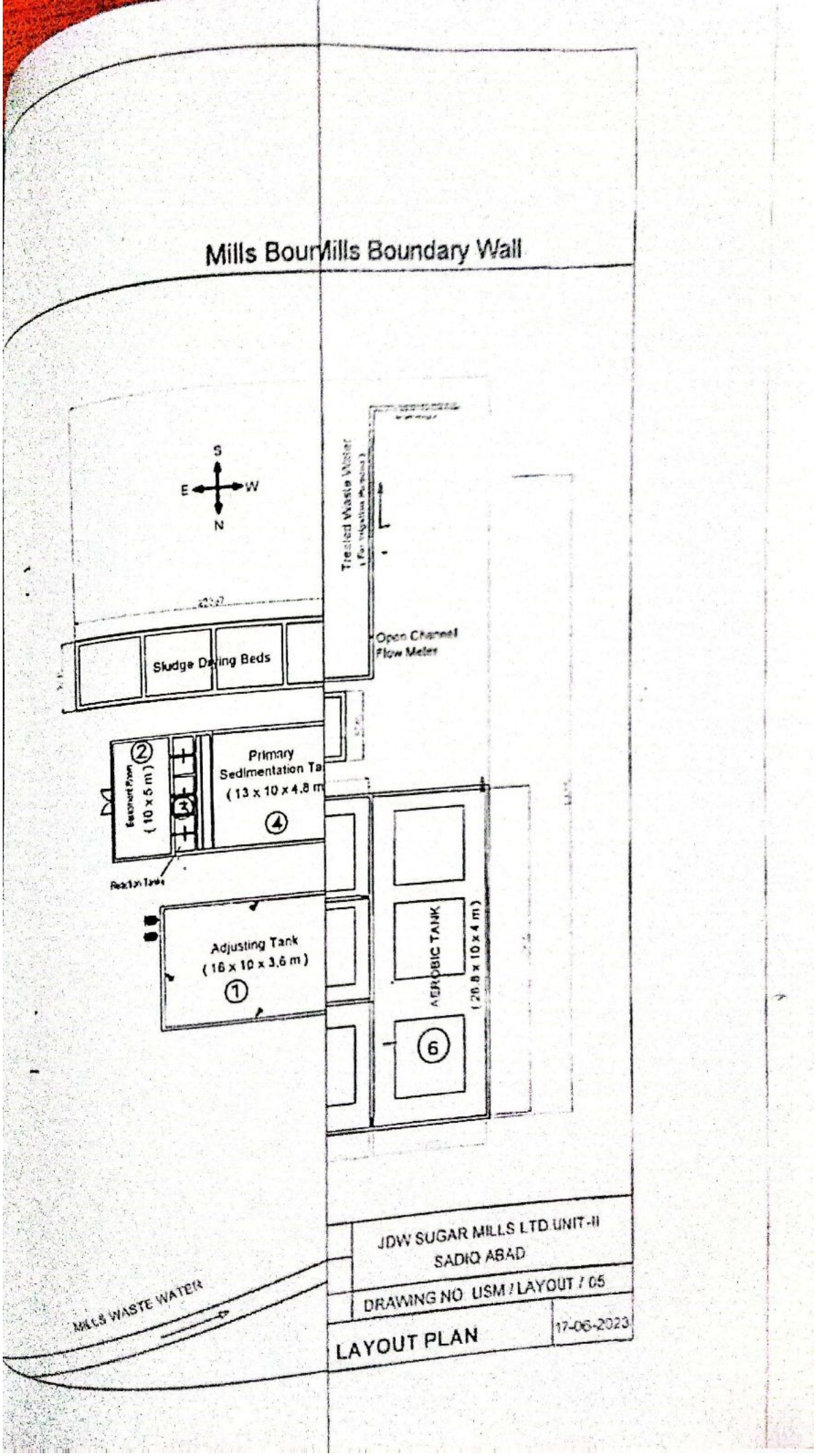
Counter signature

Director General (TÜV)

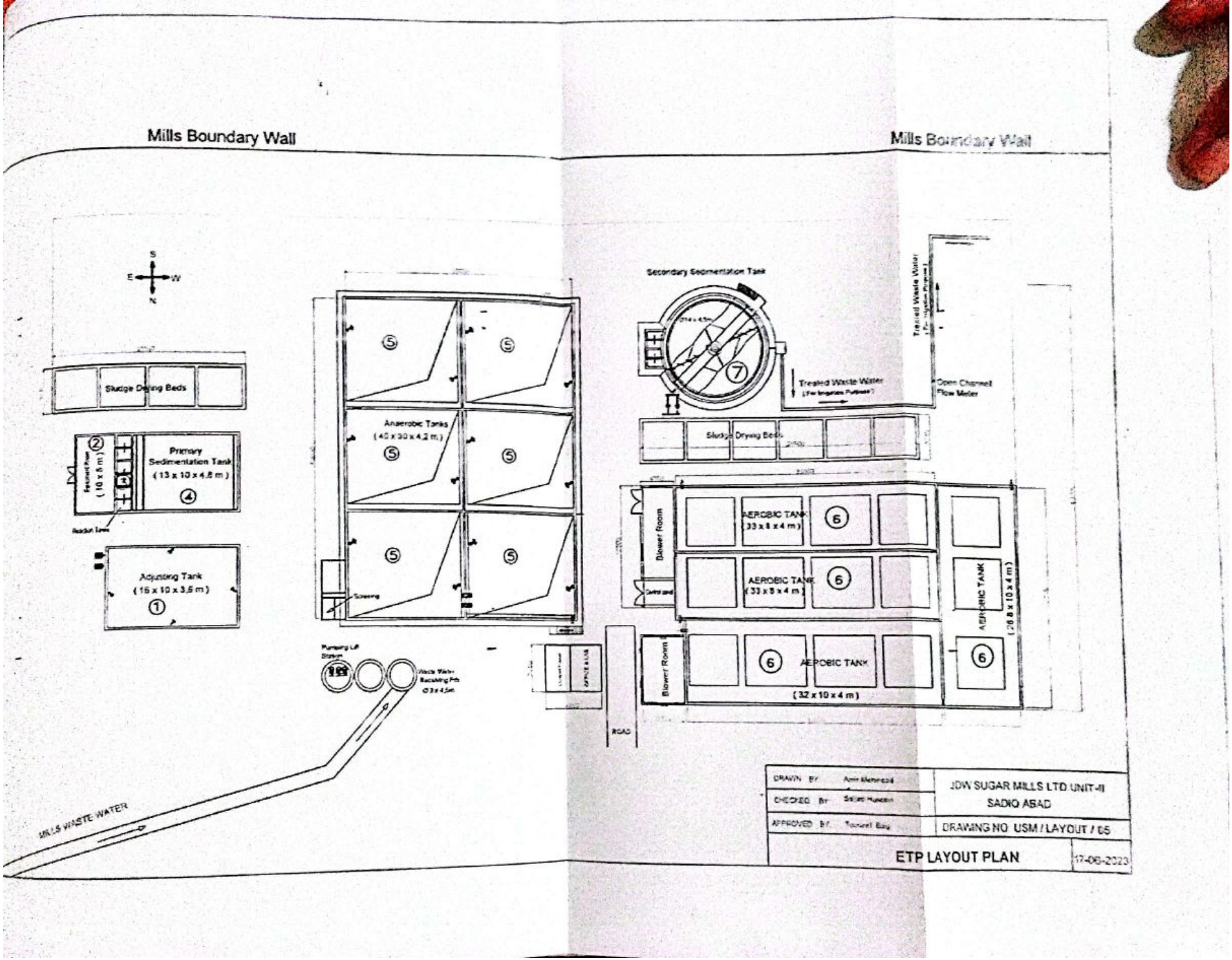
Page 1 of 1

Tel: +92 42 99231798; PABX No.+92 42 99230688 - 95 Fax: + 92 42 99230705
Email: ilo@pcsir-flu.gov.pk; website: www.pcsir-flu.gov.pk

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ANNEX-XI

Validated Baseline Lab Monitoring Reports

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

199-A
286-23

Validation for Stack & Ambient Monitoring / Sampling

Emission Monitoring under CTM-34 or OTM-39			
Name &	JDW Sugar Mills Unit-02 Machi-Goth, Sadiqabad, District RYK	No of Stacks /Sampling Point	Base line
Category	Sugar Mill		
Model & Make	Environment S.A		
Stack emission Values of CO, NOx (In mg/nM3)			
/ Excess Oxygen (%age): -			
exposed for Ramp-Up phase to the sample gas for 5 minutes	Yes	NO	NA
Flow rate and EC temperature monitored during calibration and testing	Yes	No	NA
Phase of sample gas recorded with 15 second interval	Yes	No	NA
quirements to ensure QA/QC complied for said EPA approved Method	Yes	No	NA
ate Matter (PM) Monitoring / Sampling under USEPA Method 5 / 17			
Make of Iso-kinetic PM Assembly			
ampling train is complete as per Method 5 & 17	Yes	No	NA
s performed prior to sampling	Yes	N	NA
a Sheet for PM sampling filled during PM sampling	Yes	No	NA
determining of "K" factor & DGM "Y" Factor filled during sampling	Yes	No	NA
ld key requirements during sampling were complied to ensure QA/QC	Yes	No	NA
Particulate matter is suitable for metal Testing	Yes	No	NA
mpling as per Method 8 (Thorin Indicator Method)			
absorbent solution are available for SOx Sampling	Yes	No	NA
ipment is capable to maintain flow rate @ 2.0LPM or as per method 8 requirement	Yes	No	NA
g for SOx is performed as per method	Yes	No	NA
t Air Quality Monitoring by Automatic Monitors for CO, O3, SO2, NOx, PM2.5 & PM10			
of continuous monitoring at a site, One Point QC Check Single analyzer & zero/span	Yes	No	NA
performed every 14 days.	Yes	No	NA
of NOx analyzer is ensured to be maintained within 96% - 104.1%	Yes	No	NA
an check is performed prior to starting ambient monitoring	Yes	No	NA
requirements for Critical & Operational Criteria for ambient air monitoring by	Yes	No	NA
ox monitors were compiled during monitoring	Yes	No	NA
asuring techniques of monitors comply PEQS			
t Air Sampling of SPM, PM10, Pb by High Volume Sampler			
of Sampling for SPM through samplers, the flow rate of sampler complies PEQS	Yes	No	NA
min).	Yes	No	NA
ion of Sampler performed prior to sampling			
e Emissions & Noise Measurement			
s of Vehicle emissions and noise measurement have been performed as per method	Yes	No	NA

Remarks (if Any):-

Signature

Research Officer
Environment Protection Agency
Punjab Lahore

Dated
16/06/2023

Signature
Farhan Ali
Asst Analyst

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

Validation for Wastewater & Drinking Water

		Sampling Point
	ESPAK	

Waste Water (WW) Treatment facility: Secondary / Tertiary / NA — Drinking Water (W) Treatment Facility: Chemical / RO / NAO

Total Collected Drinking water samples .....

Testing parameter is assigned on sample container	Yes ✓	NO	NA
Stored properly for each testing parameter	Yes ✓	NO	NA
Adequate for testing the target parameters	Yes ✓	NO	NA
Flow Measurement performed to ensure sample representativeness	Yes	NO ✓	NA

Waste Water Flow m^3/hr from each outlet (Optional)	Water intake m^3/hr (Optional)	Water Mass balance complied during sampling (Optional) Yes / No	Sample Type: Grab ✓ / Composite — GIV

	Matrix W	Matrix WW	Container	Sample Size	Preservation	Yes	NO	NA
...s fecal	✓		Sterile Container	100 mL	Refrigerate 6 C	✓		
...s fecal, Chlorinated	✓		Sterile Container	100 mL	0.008% Thiosulphate & cooled 6 C	✓		
...d	✓		P,G	500 mL	Cool 6 C	✓		
...d	✓		P,G	500ml	HNO3 to pH<2	✓		
...ate+Nitrite, Phenolic ...il & Grease, COD, NH3	✓		P,G	2000 mL	H2SO4 to pH < 2, Cool 6C	✓		
...e	✓		P,G Rinsed 1.1 HNO3	500 mL	HNO3 to pH < 2	✓		
...i	✓		P,G	500 mL	NaOH to pH > 12, Cool 6C	✓		
...neral			Glass	1 Liter	Cool 6 C			

		pH meter, Model Make	Measurement Method	Calibrated in Field Yes / NO	Measured value

Signature ...
...Officer
...Protection Agency
...b Lahore

Dated
16/06/2023

Signature
Farhan Ali
Asst. Analyst

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ENVIRONMENTAL SERVICES PAKISTAN

CHEMICAL ANALYSIS TEST REPORT (AMBIENT AIR)

ESPAK/0370P/23/AA/3522/00337 Date: 27/06/2023

Capacity Enhancement of Sugar Mill (21,000 – 24,000 tons/day) of M/s JDW unit II Sugar Mills, RYK Upto 24,000 tons/day

Machi Goth, Sadiqabad, District Rahim Yar Khan

Ambient Air — Monitoring Location: Mid-Point of Site (GPS:28.243387°N 70.042675°E)

16/06/2023 — Grab / Composite: Continuous- 24 Hours

Mehmood Aslam, Analyst (Field), ESPAK

17/06/2023

Parameters	Limit Values (PEQS-24Hours)	Concentration	Method / Equipment Used	Remarks
Monoxide (CO)	5 mg/m³ (8 Hours)	1.3 mg/m³	Non Dispersive Infrared Absorption (NDIR)	Within Prescribed Limits
oxide (SO_2)	120 µg/m³	18.7 µg/m³	UV Fluorescence (UVF)	Within Prescribed Limits
	130 µg/m³ (1 Hour)	27.1 µg/m³	Non Dispersive UV Absorption	Within Prescribed Limits
Nitrogen as NO	40 µg/m³	10.1 µg/m³	Chemiluminescence Detection	Within Prescribed Limits
Nitrogen as NO_2	80 µg/m³	27.9 µg/m³	Chemiluminescence Detection	Within Prescribed Limits
Matter $PM_{2.5}$	35 µg/m³	32.7 µg/m³	Particulate Sensor	Within Prescribed Limits
Matter PM_{10}	150 µg/m³	121 µg/m³	Particulate Sensor	Within Prescribed Limits
Particulate Matter (SPM)	500 µg/m³	311 µg/m³	High Volume Sampler (HVS)	Within Prescribed Limits

Environmental Quality Standards for Ambient Air, 2016

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

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represent sample conditions when monitoring/testing was carried out.
data is not intended to be used legally by the client.

Prepared By: Mehmood Aslam
Analyst (Field)

Analyst with Seal: Muhammad Arfan

Incharge of the Environmental Laboratory:

Name: Imran Malik
General Manager
Date: 27/06/2023

Environmental Services Pakistan ESPAK Tel: +924235154712-17

End of Report

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

www.espak.com.pk info@espak.com.pk

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ENVIRONMENTAL SERVICES PAKISTAN

PAK EPA & PUNJAB EPD CERTIFIED

NOISE MONITORING REPORT

ESPAK/0370P/23/N/3523/00389

Date: 27/06/2023

Capacity Enhancement of Sugar Mill (21,000 – 24,000 tons/day) of M/s JDW unit II Sugar Mills, RYK

Machi Goth, Sadiqabad, District Rahim Yar Khan

Noise

16/06/2023 **Grab / Composite:** Continuous 24-Hours

Mehmood Aslam, Analyst (Field), ESPAk

17/06/2023

Sound Level Meter

Measurement Point	Limit Values (PEQS)	Noise Level in dB(A) Leq	Remarks
of Site 343387°N 70.042875°E) - Day time	75 dB(A)	69 dB(A)	Within Prescribed Limits
of Site 343387°N 70.042875°E) - Night time	65 dB(A)	61 dB(A)	Within Prescribed Limits

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

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represent sample conditions when monitoring/testing was carried out.
data is not intended to be used legally by the client.

Mehmood Aslam
Analyst (Field)

ief Analyst with Seal: Muhammad Arfan

Incharge of the Environmental Laboratory:

Name: Imran Malik
General Manager

Date: 27/06/2023

Environmental Services Pakistan ESPAK Tel: +92423516401 2-17

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

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ENVIRONMENTAL SERVICES PAKISTAN

PAK EPA & PUNJAB EPD CERTIFIED

CHEMICAL ANALYSIS TEST REPORT (GROUND WATER)

ESPAK/0370P/23/GW/3524/00837 Date: 27/06/2023

Capacity Enhancement of Sugar Mill (21,000 – 24,000 tons/day) of M/s JDW unit II Sugar Mills, RYK

Machi Goth, Sadiqabad, District Rahim Yar Khan

Ground Water

17/06/2023 Grab / Composite: Grab

16/06/2023

Mehmood Aslam, Analyst (Field), ESPAK

24/06/2023

Parameters	Limit Values (PEQS)	Concentration	Method / Equipment Used	Remarks
	—	ND	SMWW 9221 B	—
	Must not be detectable in any 100mL Sample	ND	SMWW 9221 F	Within Limits
	≤15 TCU	Nil	SMWW 2120 C	Within Limits
	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Limits
	Non Objectionable / Acceptable	Acceptable	Organoleptic	Within Limits
	<5 NTU	ND	SMWW 2130B	Within Limits
ness as $CaCO_3$*	<500 mg/L	312 mg/L	SMWW 2340C	Within Limits
ved Solids (TDS)*	<1000 mg/L	411 mg/L	SMWW 2540C	Within Limits
	6.5-8.5	7.8	SMWW 4500H+B	Within Limits
	≤50 mg/L	10.3 mg/L	SMWW 4500NO_3^- B	Within Limits
	≤3 mg/L	ND	SMWW 4500NO_2^- B	Within Limits
	0.2-0.5 mg/L	ND	SMWW 4500-Cl B	—
	<250 mg/L	39 mg/L	SMWW 4500Cl^- B	Within Limits
	≤1.5 mg/L	1.0 mg/L	U.S. EPA 9214	Within Limits
ounds (as Phenols)	NGVS	ND	SMWW 5530 C	—
	≤0.05 mg/L	ND	SMWW 4500 CN^- F	Within Limits
	0.01 mg/L	ND	U.S. EPA-200.7	Within Limits
	≤0.05 mg/L	ND	U.S. EPA-200.7	Within Limits
	2.0 mg/L	ND	U.S. EPA-200.7	Within Limits
	≤0.05 mg/L	ND	U.S. EPA-200.7	Within Limits
	≤0.001 mg/L	ND	U.S. EPA-200.7	Within Limits
	≤0.02 mg/L	ND	U.S. EPA-200.7	Within Limits
	5.0 mg/L	0.2 mg/L	U.S. EPA-200.7	Within Limits

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ENVIRONMENTAL SERVICES PAKISTAN

PAK EPA & PUNJAB EPD CERTIFIED

CHEMICAL ANALYSIS TEST REPORT (GROUND WATER)

ESPAK/0370P/23/GW/3524/00837 Date: 27/06/2023

Capacity Enhancement of Sugar Mill (21,000 – 24,000 tons/day) of M/s JDW unit II Sugar Mills, RYK

Parameters	Limit Values (PEQS)	Concentration	Method / Equipment Used	Remarks
	≤0.05 mg/L	ND	U.S. EPA-200.7	Within Limits
	0.7 mg/L	0.1 mg/L	U.S. EPA-200.7	Within Limits
	≤0.2 mg/L	ND	U.S. EPA-200.7	Within Limits
	≤0.5 mg/L	0.2 mg/L	U.S. EPA-200.7	Within Limits
	0.3 mg/L	ND	U.S. EPA-200.7	Within Limits
Coliform Bacteria	Must not be detectable in any 100mL sample	ND	SMWW 9221 F	Within Limits
	≤0.005 mg/L	ND	U.S. EPA-200.7	Within Limits
	0.01 mg/L	ND	U.S. EPA-200.7	Within Limits

Environmental Quality Standards for Drinking Water, 2016
Methods for the Examination of Water and WasteWater 23rd Edition, American Public Health Association, American Water Works Association, Federation USA (2017)
Note Number
Environmental Protection Agency
Value Set

and measurements were carried out at 25 ± 5 °C and 50 ± 20 % Relative Humidity conditions unless required otherwise.
Measurement (UoM) data will be provided on request, where available. The statement of conformity, if provided in the report, is based on the rule acceptance or rejection with equal shared risk due to measurement uncertainty.

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bility of the ethical use of this report lies with the client.
represent sample conditions when monitoring/testing was carried out.
data is not intended to be used legally by the client.
eters marked with asterisk (*) are ISO 17025:2017 accredited.

Tested By:	Waqas Ahmad	Ghulam Mustafa	Riaz Ahmad	M. Shahid	Khizra Bano
	Analyst (ICP-AES)	Analyst (Chemical)	Analyst (Chemical)	Analyst (Chemical)	Analyst(Microbiology)

Authorized Analyst with Seal: Muhammad Arfan

In-charge of the Environmental Laboratory:

Name: Imran Malik
General Manager
Date: 27/06/2023

Environmental Services Pakistan ESPAK

End of Report

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ANNEX-XII

Socio-Economic Survey Forms

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Rafaqat Ashad

Address: RYK

Contact # CNIC: 31309-7978874-5

Age: 38

Education: Primary

Marital Status: ✓ Married • Single

If married, No. of children: 03

Religion: Islam

No. of earning members in family: 01

Total income/ occupation: 25,000

Is there any family member suffering from some disease?

01

Receptors Information

11. How many hospitals/ dispensaries are available in the area?

01

12. How many schools and colleges are present in the area?

01

Project Information

13. Do you know about this project? How were you informed?

Yes. Father worked in mill.

14. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. More Sugar Production

15. What do you think would be the positive/ negative effects of the Project?

Employment

16. What will be the Health and Safety Issue due to this project in your point of view?

NO

17. Would you like to add anything else?

NO

Interviewed By:

Sign of Person (Interviewed)

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Jamil Ahmed

Address: RYK

Contact # Cell: 31304-2161233-5

Age: 31

Education: Illiterate

Marital Status: ✓ Married • Single

If married, No. of children: 03

Religion: Islam

No. of earning members in family: 02

Total income/ occupation: 28000

Is there any family member suffering from some disease?

No

Receptors Information

1. How many hospitals/ dispensaries are available in the area?

01

2. How many schools and colleges are present in the area?

01

Project Information

1. Do you know about this project? How were you informed?

Yes. Cousin working in Mill

2. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes Most production of Sugar

3. What do you think would be the positive/ negative effects of the Project?

Employment Factor

4. What will be the Health and Safety Issue due to this project in your point of view?

No

5. Would you like to add anything else?

No

Interviewed By:

Sign of Person (interviewed) Jamil

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Haji Hasoor uddin

Address: RYK

Age: 42

Education: Illiterate

Marital Status: ✓ Married ◦ Single

If married, No. of children: 04

Religion: Islam

No. of earning members in family: 02

Total income/ occupation: 33,000

Is there any family member suffering from some disease?

01

Receptors Information

1. How many hospitals/ dispensaries are available in the area?

01

2. How many schools and colleges are present in the area?

01

Project Information

1. Do you know about this project? How were you informed?

Yes. locally

2. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. Economic benefit

3. What do you think would be the positive/ negative effects of the Project?

No negative effect

4. What will be the Health and Safety Issue due to this project in your point of view?

No

5. Would you like to add anything else?

No

Interviewed By:

Sign of Person (Interviewed) hazoor uddin

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QUESTIONNAIRE FOR SOCIO ECONOMIC SURVEY

Personal Information

Name: Rias Ahmed

Address: RYK

Contact No/Cell: 3136-139881-1

Age: 36

Education: Primary

Marital Status: ✓ Married * Single

If married, No. of children: 06

Religion: Islam

No. of earning members in family: 01

Total income/ occupation: 29,000

Is there any family member suffering from some disease?

NO

Receptors Information

11. How many hospitals/ dispensaries are available in the area?

01

12. How many schools and colleges are present in the area?

01

Project Information

13. Do you know about this project? How were you informed?

No, While Survey

14. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. Employment

15. What do you think would be the positive/ negative effects of the Project?

Enhanced Efficiency

16. What will be the Health and Safety Issue due to this project in your point of view?

NO

17. Would you like to add anything else?

NO

Interviewed By:

Sign of Person (Interviewed) Rias

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Faiz Ali

Address: RYK

Contact #/ CNIC: 45404-0320414-1 / 37304-

Age: 37

Education: Primary

Marital Status: ✓ • Married • Single

If married, No. of children: 02

Religion: Islam

No. of earning members in family: 01

Total income/ occupation: 37,500

Is there any family member suffering from some disease?

01

Receptors Information

1. How many hospitals/ dispensaries are available in the area?

01

2. How many schools and colleges are present in the area?

01

Project Information

3. Do you know about this project? How were you informed?

Yes. While Survey.

4. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes, More Capacity for Sugar Production

5. What do you think would be the positive/ negative effects of the Project?

No negative Affect

6. What will be the Health and Safety Issue due to this project in your point of view?

No

7. Would you like to add anything else?

No

Interviewed By: [signature]

Sign of Person (Interviewed): [signature] 8/2/

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Khawand Bakhsh Contact # or NIC: 3130486533111

Father's Name: Ayub

Age: 35

Qualification: Illiterate

Marital Status: ✓ Married / Single

No. of children: 02

Religion: Islam

No. of earning members in family: 01

Monthly personal occupation: 22,000

Does any family member suffering from some disease?

No

Receptors Information

How many hospitals/ dispensaries are available in the area?

0

How many schools and colleges are present in the area?

01

Project Information

Do you know about this project? How were you informed?

Yes Via close friend

What do you think about the Project? Do you think it should be applied? Why, why not?

Yes Employment opportunities

What do you think would be the positive/ negative effects of the Project?

Increased capacity of mill

What will be the Health and Safety Issue due to this project in your point of view?

No

Would you like to add anything else?

No

Interviewed By: [signature]

Sign of Person (Interviewed) [signature]

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Syed Ejaz Shah Contact # of HC: 3134-5250951-7

Address: RYK

Age: 47

Education: Illiterate

Marital Status: ✓ Married Single

No. of children: 01

Religion: Islam

No. of earning members in family: 01

Total income/ occupation: 44,000

Is any family member suffering from some disease?

No

Receptors Information

How many hospitals/ dispensaries are available in the area?

01

How many schools and colleges are present in the area?

01

Project Information

Do you know about this project? How were you informed?

No. While Survey

What do you think about the Project? Do you think it should be applied? Why, why not?

Yes.

What do you think would be the positive/ negative effects of the Project?

Increased Efficiency of NTN

What will be the Health and Safety issue due to this project in your point of view?

NO

Would you like to add anything else?

NO

Interviewed By:

Sign of Person (Interviewed)

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name M. Asad Contact # CNIC 3134-8752384

Address RYK

Age 25

Education Middle

Marital Status • Married ✓ Single

If married, No. of children N/A

Religion Islam

No. of earning members in family 01

Monthly income/ occupation 18,000

Is there any family member suffering from some disease?

NO

Receptors Information

1. How many hospitals/ dispensaries are available in the area?

01

2. How many schools and colleges are present in the area?

01

Project Information

1. Do you know about this project? How were you informed?

Yes. While Survey

2. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. More Sugar production

3. What do you think would be the positive/ negative effects of the Project?

Employment of local labor

4. What will be the Health and Safety Issue due to this project in your point of view?

NO

5. Would you like to add anything else?

NO

Interviewed By:

Sign of Person (Interviewed)

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QUESTIONNAIRE FOR SOCIOECONOMIC SURVEY

Personal Information

Name: Sadam Hussain Contact # CNIC 3130-8220908-5

Address: RYK

Age: 40

Education: Illiterate

Marital Status: ✓ Married • Single

If married, No. of children: 06

Religion: Islam

No. of earning members in family: 02

Total income/ occupation: 82,000

Is there any family member suffering from some disease: 02

Receptors Information

1. How many hospitals/ dispensaries are available in the area?

01

2. How many schools and colleges are present in the area?

01

Project Information

1. Do you know about this project? How were you informed?

Yes Via friend working in mill

2. What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. development of mill.

3. What do you think would be the positive/ negative effects of the Project?

Enhanced capacity of mill to produce Sugar

4. What will be the Health and Safety Issue due to this project in your point of view?

No

5. Would you like to add anything else?

No

Interviewed By:

Sign of Person (Interviewed) Sadam

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QUESTIONNAIRE FOR SOCIO-ECONOMIC SURVEY

Personal Information

Name: Nazia Ahmed Contact # CNIC: 3130-1223421

Address: RYK

Age: 45

Education: Matric

Marital Status: ✓ Married / Single

If married, No. of children: 04

Religion: Islam

No. of earning members in family: 01

Total income/ occupation: 35,000

Is there any family member suffering from some disease?

NO

Receptors Information

How many hospitals/ dispensaries are available in the area?

01

How many schools and colleges are present in the area?

01

Project Information

Do you know about this project? How were you informed?

Yes. While Survey.

What do you think about the Project? Do you think it should be applied? Why, why not?

Yes. Employment.

What do you think would be the positive/ negative effects of the Project?

More Sugar Production

What will be the Health and Safety Issue due to this project in your point of view?

NO

Would you like to add anything else?

NO

Interviewed By:

Sign of Person (Interviewed) Nazia

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GOVT. DEPARTMENTS CONSULTATION

1	Respondent Name	Muhammad Anwar
2	CNIC No./Mobile No.	3308 1851[illegible]
3	Designation	Sub Divisional Officer
4	Department Name	Irrigation
5	Project Title	Construction of [illegible]
6	Project Location	[illegible]
7	Comments/Suggestions of Respondents	[illegible]

Interviewer

Division Officer

T DEPARTMENTS CONSULTATION

Respondent Name	DIRECTOR LABOUR WELFARE BAHAWALPUR DIVISION
CNIC No/Mobile No	
Designation	
Department Name	Labour & Human Resource Department
Project Title	Enhancement of Coverage
Project Location	JDW Sugar mills Unit No 1 Jamal Din wali Tehsil Yazman District RY Khan
Comments/Suggestions of Respondents	This initiative project enhancement of coverage as per laws and policy of Government is appreciable as the same will add and create employment opportunities for the area residents however labour laws are to be implemented in letter & spirit in a bid to ensure the safety & employee welfare & safeguard their rights interests. It will also help the economy well being of the

Interviewer

DIRECTOR LABOUR WELFARE
BAHAWALPUR DIVISION

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DEPARTMENTS CONSULTATION

Respondent Name	Aamir Ishaq
CNIC No./Mobile No.	0300-6817142
Designation	Assistant Director
Department Name	EPA
Project Title	
Project Location	
Comments/Suggestions of Respondents	Proper solid waste management plan and air emissions control devices in the installed. Compliance of EPA Required.

15/6/23

Interviewer

DEPARTMENTAL CONSULTATION

DIRECTOR LABOUR WELFARE
BAHAWALPUR DIVISION

Respondent Name	
CNIC No./Mobile No.	
Designation	
Department Name	
Project Title	
Project Location	
Comments/Suggestions of Respondents	

Interviewer:

DIRECTOR LABOUR WELFARE
BAHAWALPUR DIVISION

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DEPARTMENTS CONSULTATION

ECO GRI

Respondent Name	Muhammad Ammas
CNIC No./Mobile No.	0308 1891265
Designation	Sub Divisional officer
Department Name	Irrigation
Project Title	Enhancement of crushing capacity
Project Location	JDW Sugar Mills unit-I
Comments/Suggestions of Respondents	This project should be implemented because it is Government initiative and positive impact on the project area. Recommended joint inspection of this Department

Interviewer:

Sub-Divisional Officer
Ghanna Canal Sub Division
Ghanna Pur Lamma

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DEPARTMENTS CONSULTATION

DIRECTOR LABOUR WELFARE
BAHAWALPUR DIVISION

Respondent Name	[illegible]
CNIC No./Mobile No	0300-65[illegible]
Designation	Director Labour Welfare Bahawalpur
Department Name	Labour & Human Resource Development Department
Project Title	Enhancement of Crushing Capacity JDW Sugar Mills Ltd Khairpur Tamewali Distt Bahawalpur
Project Location	
Comments/Suggestions of Respondents	The initial impact enhancement of crushing capacity as per laws & policy by Government is positive as the same will add and create employment opportunities for the local area residents. However the labour laws are to be implemented in letter & spirit in a bid to ensure healthy & safe working environment & safeguard their service interests. It will also help in economic well being of the [illegible]

22/06/2023

Interviewer: [illegible]

DIRECTOR LABOUR WELFARE
BAHAWALPUR DIVISION

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NEXX-XIII

NEPRA Approval for Co Generation Plant

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National Electric Power Regulatory Authority
(NEPRA)
Islamabad – Pakistan

GENERATION LICENCE

No. IGSPL/35/2013

In exercise of the Powers conferred upon the National Electric Power Regulatory Authority (NEPRA) under Section 15 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997, the Authority hereby grants a Generation Licence to:

JDW SUGAR MILLS LIMITED

Incorporated under the Companies Ordinance, 1984
Under Certificate of Incorporation No. L02480, dated May 31, 1990

for its Baggase based Generation Facility Located at Machi Goth, Tehsil Sadiqabad, District Rahim Yar Khan
in the Province of Punjab

(Installed Capacity: 26.35 MW Gross ISO)

to engage in generation business subject to and in accordance with the Articles of this Licence.

Given under my hand this 24th day of September Two Thousand & Thirteen and expires on 14th day of December Two Thousand & Forty Three.

Registrar

NATIONAL ELECTRIC POWER REGULATORY AUTHORITY
REGISTRAR
NEPRA

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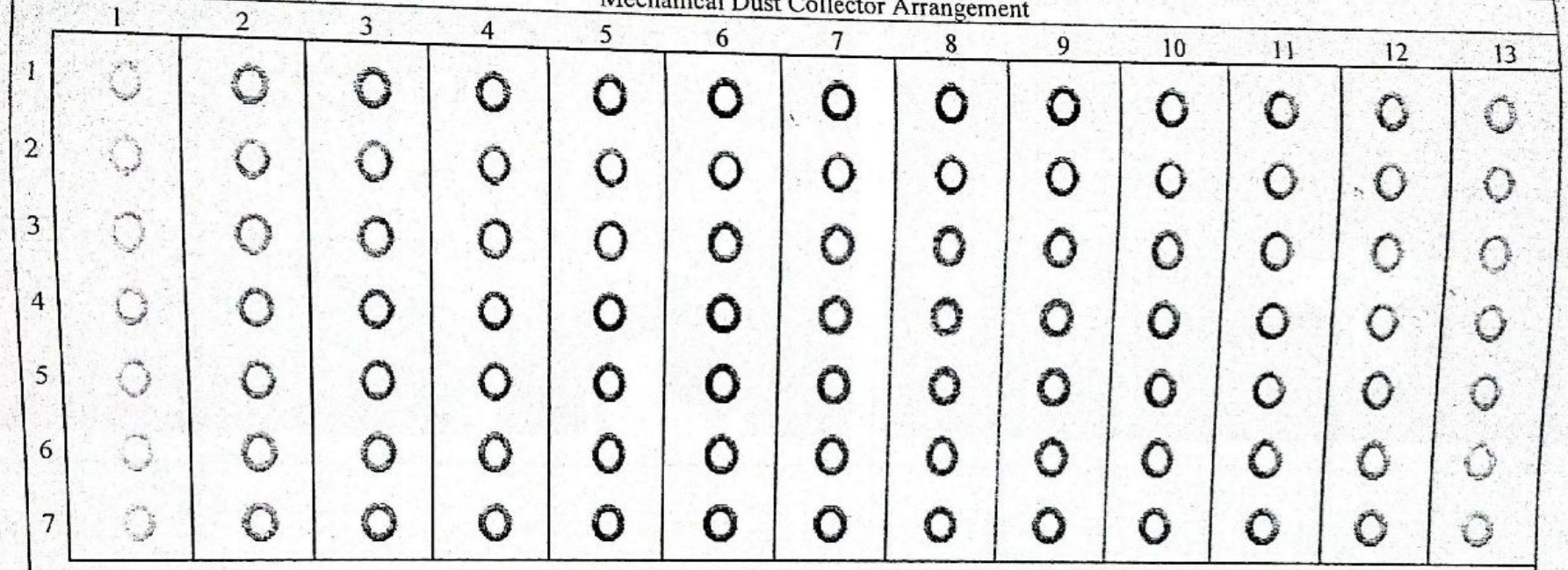
ANNEX-XIV

Drawing and Emission Monitoring Reports

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Boiler Mechanical Dust Collector Cyclones Inspection

Mechanical Dust Collector Arrangement



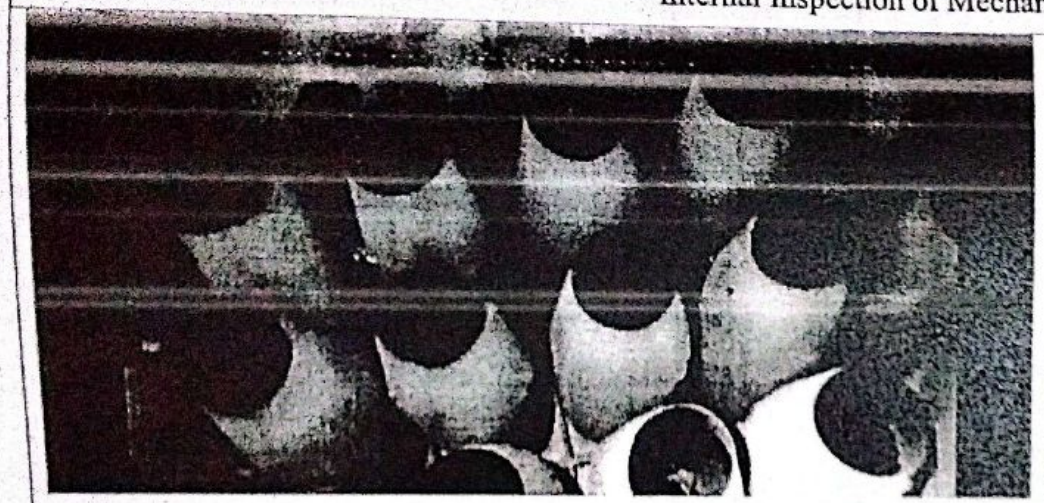
Total 13 headers and 91 cyclones unit in MDC.

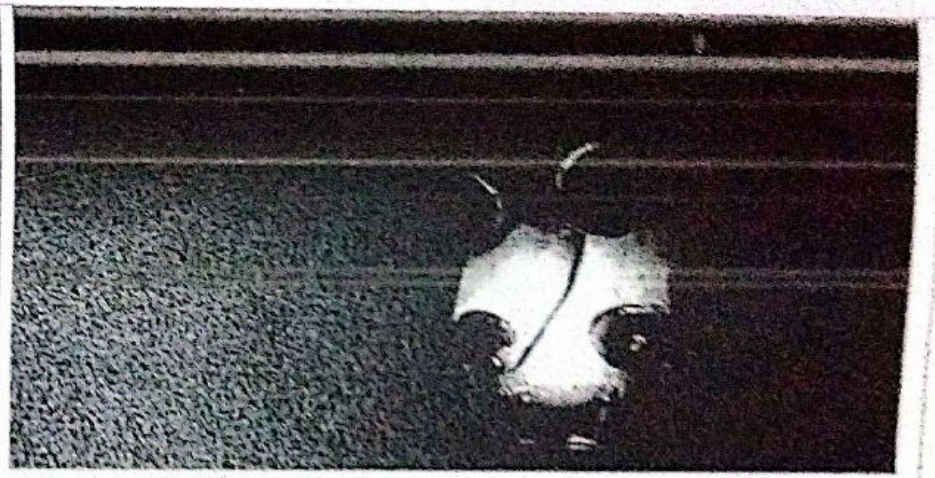
Light grey highlighted area cyclone thickness found 3.6 mm, remaining observed 4mm

Conclusion:- Satisfactory

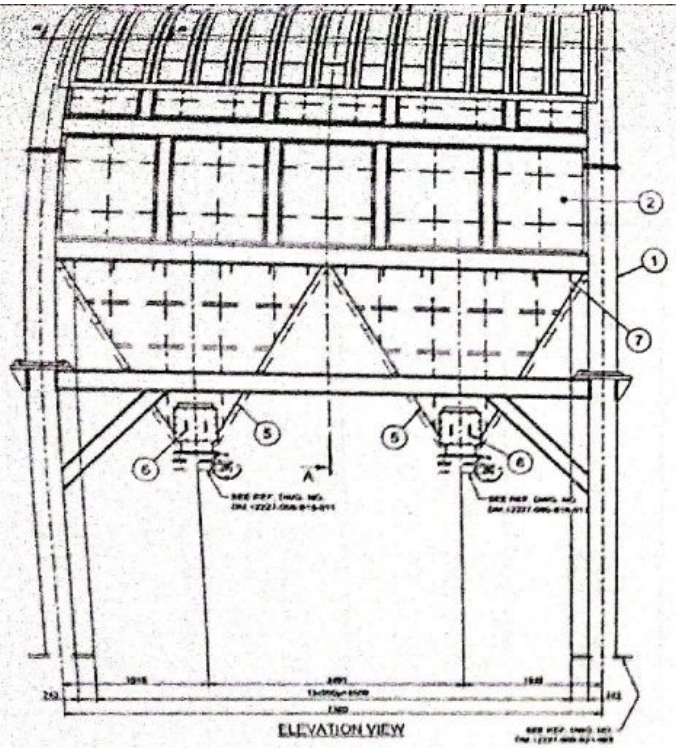
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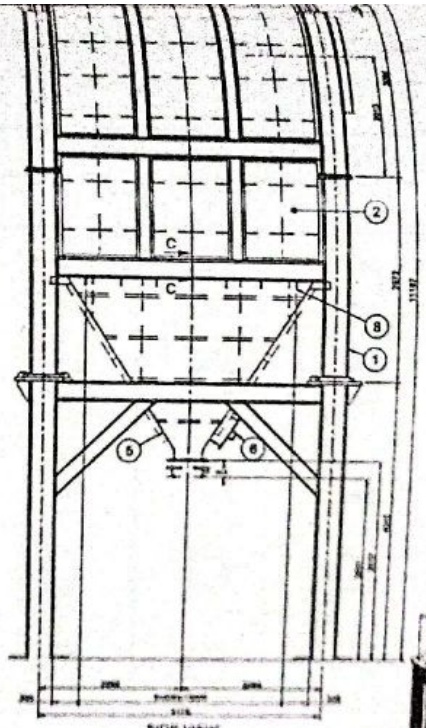
Internal Inspection of Mechanical Dust Collector Cyclones

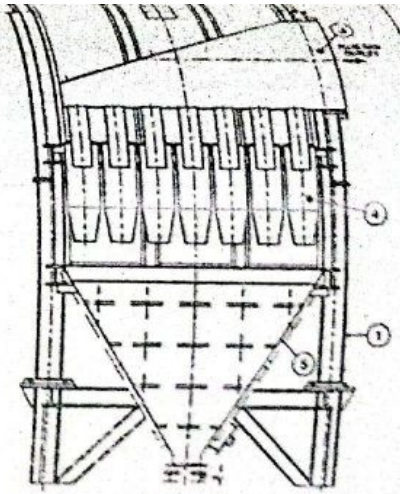




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DESIGN BASIS FOR STRUCTURE:

STRUCTURAL DESIGN CODE	
STRUCTURAL WELDING CODE	
DESIGN CODE FOR BASE PLATE	
LOAD COMBINATION	AS PER ASCE
CONNECTION DESIGN	AS PER AISC FULLY WELDED

WIND:

WIND CODE	ASCE 7-10
WIND SPEED	
EXPOSURE CATEGORY	C
WIND IMPORTANCE	1

SEISMIC:

SEISMIC CODE	USC-1997
IMPORTANCE FACTOR	1.5
SEISMIC ZONE	2A

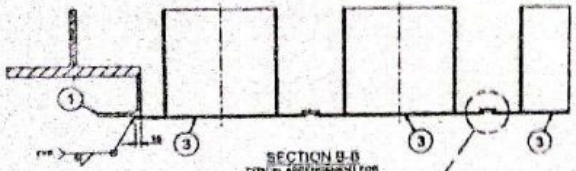
LOAD:

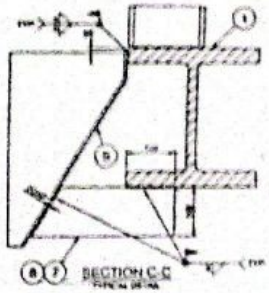
DEAD LOADS	AS EQUIPMENT WEIGHT
LIVE LOAD	2 KN/SQ.M

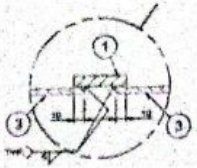
AVANT-GARDE
CHENNAI 600 116, INDIA.

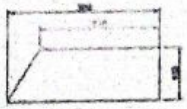
	A		
	B		
	C		
	D		

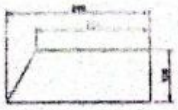
M.S Rishikesh 04.04.13

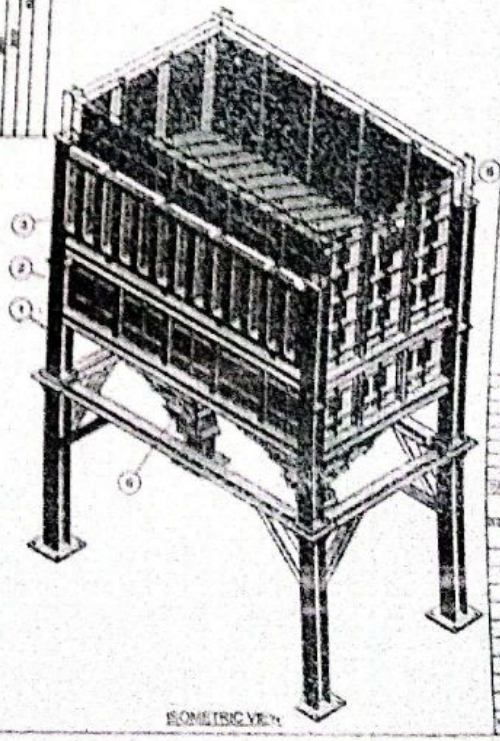












MATERIAL LIST

GENERAL ARRANGEMENT OF FLY ASH APPETITE

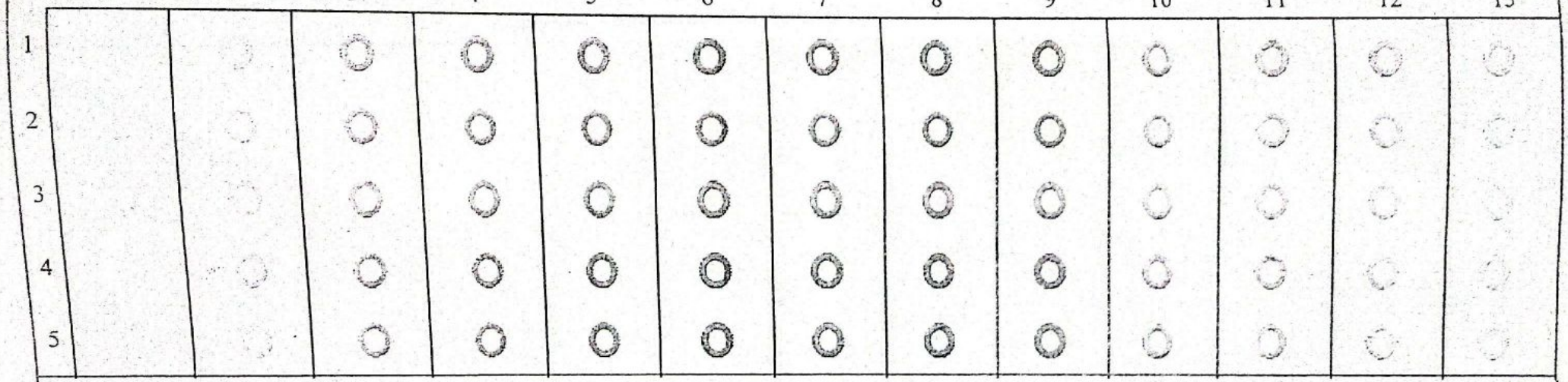
DM 12227-000-B10-B00

DM 12227-000-B10-B00-00 01 X 01

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Boiler Mechanical Dust Collector Cyclones Inspection

Mechanical Dust Collector Arrangement



Total 13 headers and 65 cyclones unit in Mechanical Dust Collection System.

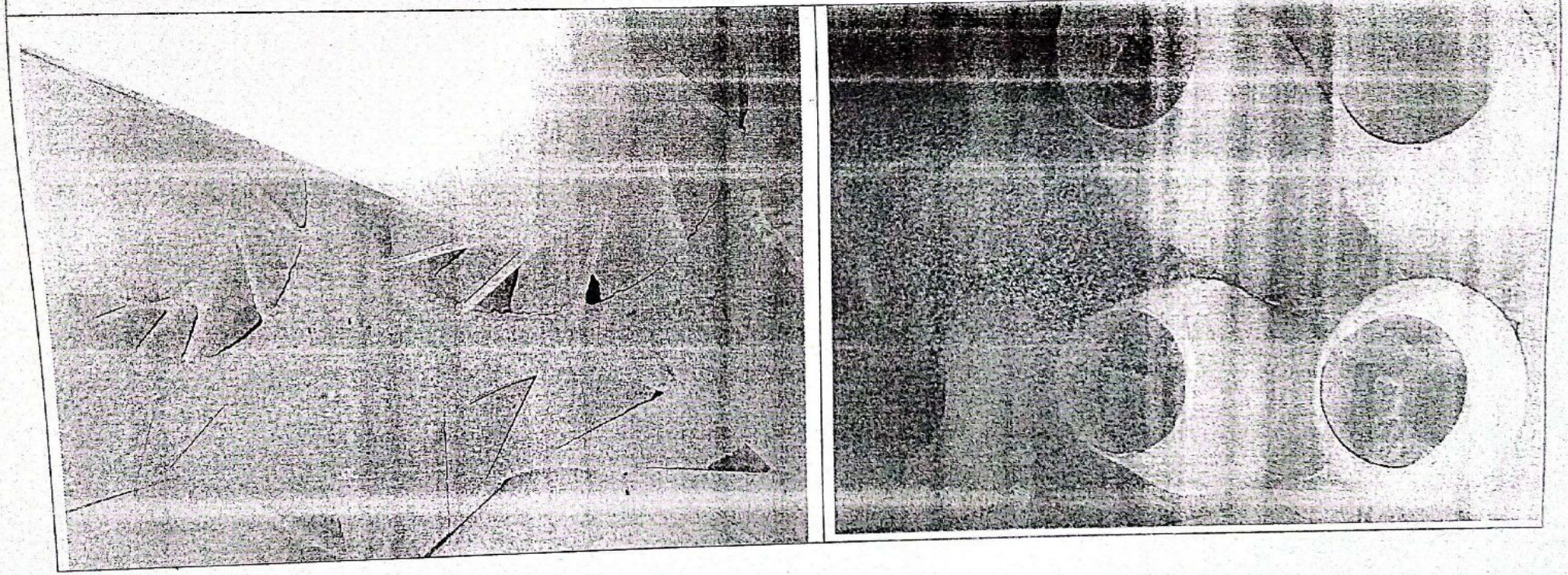
All Cyclone tubes thickness found 6mm.

Conclusion:- Satisfactory

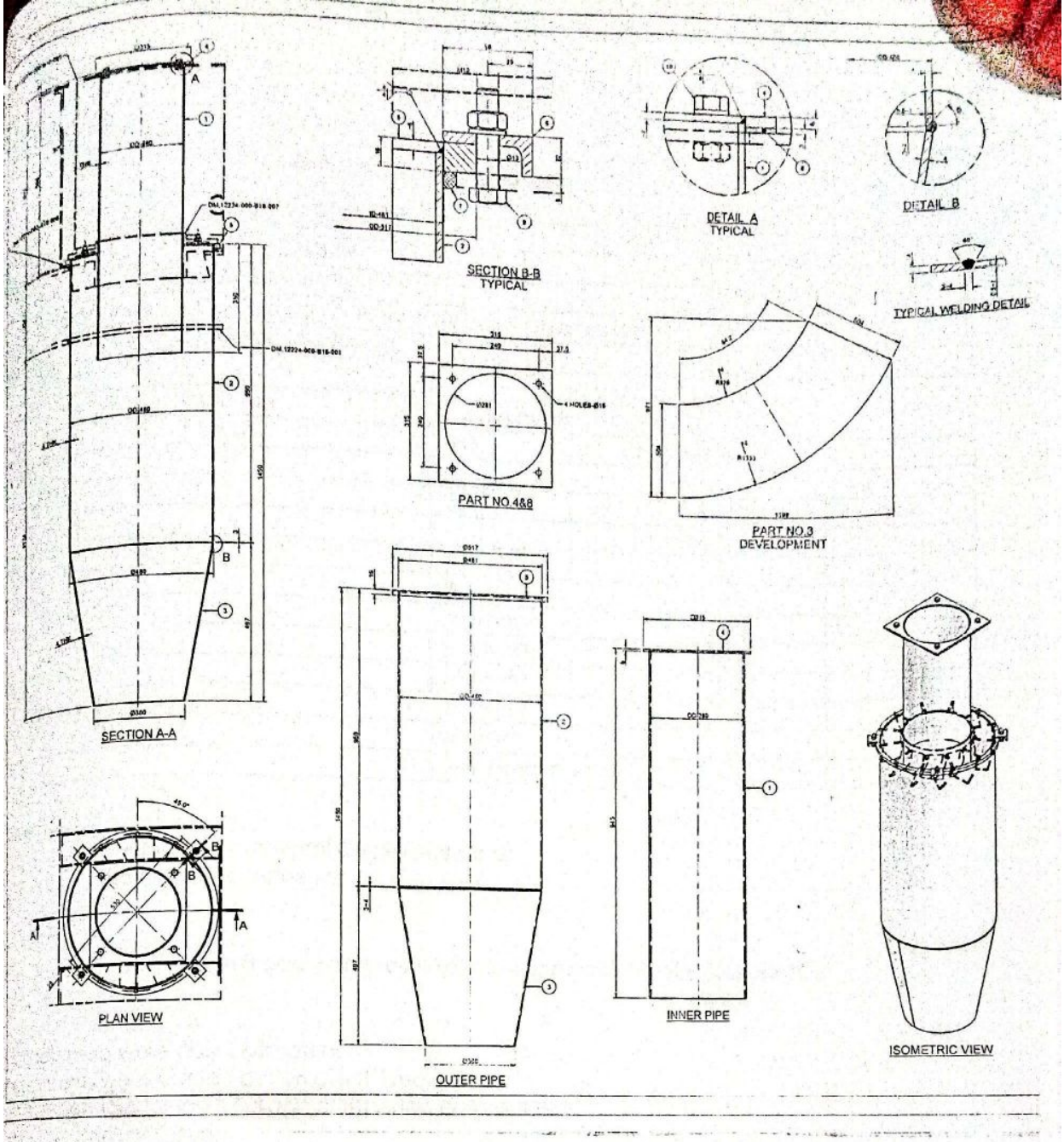
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Boiler Mechanical Dust Collector Cyclones Inspection

Internal Inspection of Mechanical Dust Collector Cyclones



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Scanned with CamScanner

nv/2313

Results

Emission Monitoring Report

	June 23, 2023
Number:	IPL/Env/2323-01
Name:	JDW Sugar Mills
Mailing Address:	Co-Gen Power Plant JDW Unit-II (Sadiqabad)
Service:	Emission Monitoring

	140 Ton	Manufacturer	-
	Boiler	Fuel	Bagasse

	Unit	Results	PEQS
ement	-	June 15, 2023	-
Monitoring	%	12	NGVS
(O2)	%	6.5	NGVS
Dioxide (CO2)	mg/Nm³	27.9	800
Monoxide (CO)	mg/Nm³	57.0	600
Nitrogen (NOx)	mg/Nm³	37.2	1700
Dioxide (SO_2)	mg/Nm³	1.0	10
en Sulphide (H_2S)	mg/Nm³	35	300
ate Matter (PM)	Ringlemann Scale	<1	2

ions: Punjab Environmental Quality Standards
No Guideline Value Set

meters are within the limit according to Punjab Environmental Quality Standards

ruments used were duly calibrated.
surements were carried out on client's request.
nt is responsible for lawful usage of reported data in future.
rt is not valid for Court.
surement results based on the time of monitoring.

Monitoring Team, InspecTest Pvt. Ltd

Protel Limited

Scanned with CamScanner

Flue Gas Composition Analysis by Inspectest (Third Party)

Emission Monitoring Report

Report Date:	April 12, 2023
Report Number	IPL/Env/2313-01
Customer Name:	JDW Sugar Mills
Customer Mailing Address:	Co-Gen Power Plant JDW Unit-II (Sadiqabad)
Type of Service:	Emission Monitoring

Capacity	140 Ton	Manufacturer	-
Type	Boiler	Fuel	Bagasse

Measurement	Unit	Results	PEQS
Date of Monitoring	-	March 27, 2023	-
Oxygen (O_2)	%	10.1	NGVS
Carbon Dioxide (CO_2)	%	9.1	NGVS
Carbon Monoxide (CO)	mg/Nm³	444.2	800
Oxides of Nitrogen (NOx)	mg/Nm³	41.3	600
Sulphur Dioxide (SO_2)	mg/Nm³	13.7	1700
Hydrogen Sulphide (H_2S)	mg/Nm³	1.3	10
Particulate Matter (PM)	mg/Nm³	58	300
Smoke	Ringelmann Scale	<1	2

Abbreviations:
PEQS: Punjab Environmental Quality Standards
NGVS: No Guide line Value Set

Remarks:
All the parameters are within the limit according to Punjab Environmental Quality Standards

Notes:
1. The instruments used were duly calibrated.
2. The measurements were carried out on client's request.
3. The client is responsible for lawful usage of reported data in future.
4. This report is not valid for Court.
5. The measurement results based on the time of monitoring.

Prepaid By:

Testing & Monitoring Team, InspecTest Pvt. Ltd

Scanned with CamScanner

4. Results

Emission Monitoring Report

Date:	January 17, 2023
Number	IPL/Env/23.06-01
Name:	JDW Sugar Mills
Mailing Address:	Co-Gen Power Plant JDW Unit-II (Sadiqabad)
Service:	Emission Monitoring

	140 Ton	Manufacturer	-
	Boiler	Fuel	Bagasse

ement	Unit	Results	PEQS
Monitoring	-	06-01-2023	-
(O2)	%	9.89	NGVS
Dioxide (CO2)	%	10.1	NGVS
Monoxide (CO)	mg/Nm³	359.7	800
of Nitrogen (NOx)	mg/Nm³	64.2	600
Dioxide (SO_2)	mg/Nm³	15.7	1700
gen Sulphide (H_2S)	mg/Nm³	1.1	10
ate Matter (PM)	mg/Nm³	42.7	300
	Ringlemann Scale	<1	2

ions:

Punjab Environmental Quality Standards
No Guideline Value Set

ameters are within the limit according to Punjab Environmental Quality Standards

ments used were duly calibrated.
asurements were carried out on client's request.
nt is responsible for lawful usage of reported data in future.
rt is not valid for Court.
asurement results based on the time of monitoring.

Monitoring Team, InspecTest Pvt. Ltd

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INSPECTEST

Emission Monitoring Report

Job Number:	12688-01
Report Date:	October 07, 2022
Report Number	CAL/OC22/0839
Customer Name:	JDW Sugar Mills
Customer Mailing Address:	Co-Gen Power Plant JDW Unit-II (Sadiqabad)
Type of Service:	Emission Monitoring

Capacity	140 Ton	Manufacturer	-
Type	Boiler	Fuel	Bagasse

Measurement	Unit	Results	PEQS
Date of Monitoring	-	Sep 29, 2022	-
Oxygen (O2)	%	8.5	NGVS
Carbon Dioxide (CO2)	%	9.	NGVS
Carbon Monoxide (CO)	mg/Nm³	219.	800
Oxides of Nitrogen (NOx)	mg/Nm³	93.	600
Sulphur Dioxide (SO_2)	mg/Nm³	18.	1700
Hydrogen Sulphide (H_2S)	mg/Nm³	0.	10
Particulate Matter (PM)	mg/Nm³	59.	300
Smoke	Ringlemann Scale	<	2

Abbreviations:

PEQS: Punjab Environmental Quality Standards

NGVS: No Guideline Value Set

Remarks:

All the parameters are within the limit according to Punjab Environmental Quality Standards

Notes:

The instruments used were duly calibrated.
The measurements were carried out on client's request.
The client is responsible for lawful usage of reported data in future.
This report is not valid for Court.
The measurement results based on the time of monitoring.

Tested By:

Field Engineer:

Approved by:

Team Lead:

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INSPECTEST

Quality Assesment Report

Number:	12613-03
Date:	July 15, 2022
Number	CAL/JL22/0572
Name:	JDW Sugar Mills
	Co-Gen Power Plant JDW Unit-II (Sadiqabad)
Service:	Waste Water Quality Assessment Report

Start Period	04-07-2022	Date of Anatysis	06-07-2022

COLLECTION & ANALYSIS

result that we got for the waste water from the process is stated as below:

Measurement	Unit	Limit of Detection	Results	Permissible Limits	Reference (APHA/USEPA)
and Grease	mg/L	5.0	BDL	10.0	USEPA 1664
OD	mg/L	5.0	7	150	APHA-5220D
OD	mg/L	3.0	BDL	80	APHA-5210D
lorine	mg/L	0.01	BDL	1.0	APHA-4500-Cl B/C
	pH	0.1	7.96	6.0-9.0	4500-H+
ded Suspended solids (TSS)	mg/L	5.0	BDL	200	APHA-2540 D
senic (As)	mg/L	0.005	0.028	1.0	APHA-3111B/3120B
dmium (Cd)	mg/L	0.01	BDL	0.1	APHA-3111B/3120B
romium (Cr)	mg/L	0.02	BDL	1.0	APHA-3111B/3120B
pper (Cu)	mg/L	1.0	BDL	1.0	APHA-3111B/3120B
n (Fe)	mg/L	1.0	BDL	8.0	APHA-3111B/3120B
ad (Pb)	mg/L	0.05	0.06	0.5	APHA-3111B/3120B
ercury (Hg)	mg/L	0.001	BDL	0.01	APHA-3112B
nc (Zn)	mg/L	1.0	BDL	5.0	APHA-3111B/3120B

reviations:

EPA : United State Environmental Protection Department
PHA : American Public Health Association
DL : Below Detection Limit

ruments used were duly calibrated.
asurements were carried out on client's request.
ent is responsible for lawful usage of reported data in future.
ort is not valid for Court.
asurement results based on the time of monitoring.

ed By:

Approved by:

ple Engineer:

Team Lead:

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ANNEX-XV

Authority Letter in favour of Proponent

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JDW Sugar Mills Ltd.

AUTHORITY LETTER IN FAVOUR OF PROPONENT

Mr. Burhan Ahmed Khan Lodhi S/o Muhammad Yamin Khan, DGM (Security & Admin) of the Company having CNIC No. 37405-2549429-7 is hereby authorized on behalf of the Company, to proceed for Environmental Approval with Environment Protection Agency (EPA), Punjab and to represent, sign, submit, respond and receive all sorts of documents, correspondence and NOC in this regard.

Dated: 12th September, 2023

Burhan Ahmed Khan Lodhi

Tauseef Baig
General Manager

17-Abid Majeed Road, Lahore Cantt., Lahore. PABX # 042-36664891-92, 36602573-74, Fax: 042-36654490 Email: jdwho@jdw-group.com
Mauza Sharin, Jamal Din Wali, Distt. Rahim Yar Khan. Ph: 068-5672161-3 Fax: 068-5672164 Email: jdwsite@jdw-group.com
Mochi Goth, Sadiqabad, Distt. Rahim Yar Khan. Ph: 068-5786516-8, 5786520, Fax: 068-5786521 Email: jdwsite2@jdw-group.com
Village Laluwali Distt. Ghotki. Ph: 0723-680050-2, Fax: 0723-680053, E-mail: jdwsite3@jdw-group.com

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ANNEX-XVI

Authority Letter in favour of Consultant

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JDW Sugar Mills Ltd.

Appointment & Authorization of Environmental Consultants
in the Provincial Environmental Protection Agency (EPA, Punjab) Lahore
In the matter of Project namely
ENVIRONMENTAL IMPACT ASSESSMENT OF JDW SUGAR MILL LIMITED UNIT -II (22000 TCD) LOCATED AT MACHI GOTH, SADIQABAD, RAHIM YAR KHAN

Know all to whom these presents shall come that I the undersigned appoint
M/S SMART SOLUTIONS
Plot # 8(G) Ground Floor Choudhry Arcade Plaza, New Civil Lines, Faisalabad

to be the environmental consultants for conducting Environmental Impact Assessment (EIA) and to submit the EIA report, follow-up the same till the final decision of: -

To conduct the EIA, prepare and submit the report before the EPA on behalf of the proponent.

To appear and represent the reply to the queries/objections, documents, explanations as shall be deemed necessary or advisable during the review process of the above cause at all its stages till the final decision of EPA.

To withdraw, re-submit, revise the report or any act deemed necessary or advised in any manner relating to the said matter.

To prepare (if applicable) and submit the Review Fee Instrument/Banker's Cheque, pay or receive money and obtain or grant receipts therefore and to do all other acts and things which may be necessary to be done for the progress in course of proceedings in the matter.

To appoint any Environmental Laboratory or other environmental expert authorizing him to conduct monitoring, surveys, data collection etc. whenever deemed fit to do so.

To receive all the letters and NOC from EPA Punjab on behalf of client.

Dt: 12.09.2023

Burhan Ahmed Khan Lodhi
Proponent
JDW Sugar Mill Limited Unit II, RYK

Abid Majeed Road, Lahore Cantt., Lahore. PABX # 042-36664891-92, 36602573-74, Fax: 042-36654490 Email: jdwho@jdw-group.com
Mauza Sharin, Jamal Din Wali, Distt. Rahim Yar Khan. Ph: 068-5672161-3 Fax:-068-5672164 Email: jdwsite@jdw-group.com
Machi Goth, Sadiqabad, Distt. Rahim Yar Khan. Ph: 068-5786516-8, 5786520, Fax: 068-5786521 Email: jdwsite2@jdw-group.com
Village Lalowali Distt. Ghotki. Ph: 0723-680050-2, Fax: 0723-680053, E-mail: jdwsite3@jdw-group.com

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ANNEX-XVI

Reference

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References

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