



PIE/VIE/NEPRA- 1773 July 27, 2022

To,

The Registrar, NEPRA NEPRA Tower, Attaturk Avenue (East), Sector G-5/1, Islamabad.

Subject:

ject: <u>APPLICATION FOR ELECTRIC POWER SUPPLY LICENSE FOR</u> <u>PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT</u> <u>COMPANY (PIEDMC) OWNED BY GOVT.OF PUNJAB AT RAHIM YAR</u> <u>KHAN INDUSTRIAL ESTATE.</u>

Reference: NEPRA letter no. NEPRA/DG(Lic)/LAD-11/1582 Dated January 27, 2022, copy attached as annexure- A.

Dear Sir,

The Chief Executive Officer being duly authorized representative of Punjab Industrial Estates Development and Management Company (PIEDMC), by virtue of power of Attorney / Board Resolution as stipulated in its 134th BOD Meeting dated 4th May 2019, to apply to National Electric Power Regulatory Authority, Islamabad, for the grant of Electric Power Supply License to the Punjab Industrial Estates Development and Management Company (PIEDMC) Govt. of Punjab at its Rahim Yar Khan Industrial Estate.

In continuation to the aforementioned NEPRA letter. Please find the attached application as per NEPRA Licensing Procedures Regulations, 2021 (AMECPR-2021) as notified vide SRO No. 760(I)/2021, on December 21, 2021, for obtaining the Electric Power Supply License for the Punjab Industrial Estates Development and Management Company (PIEDMC), at its industrial estate located in Rahim Yar Khan, Punjab.

A Cross Cheque in the sum of Rs.1,814,686/- being the 'Non-refundable License Applicant Fee calculated in accordance with schedule II and PART I as per NEPRA SRO No. 760(I)/2021 is also attached here with this application.

Moreover, PIEDMC (hereinafter the Applicant), vide this application hereby makes, constitutes, ordains, nominates and appoints M/s ASC Advisory and all its employees, agents



and relevant persons (hereinafter referred to as the "Authorized Representatives/ Authorized Agents"),to act under our authority and on our behalf, and to do or execute or to represent, institute, or file applications, documents, attend hearings, remove objections, make statements, give evidence, affidavits on behalf of the Applicant, or to act in any legal capacity to pursue the attached application;

The application may please be processed at your end for the early issuance of Electric Power Supply License for PIEDMC at its Rahim Yar Khan Industrial Estate.

Thanking you and best regards.

DA/As above:



Copy to:-

- 1. The Chairman, PIEDMC.
- 2. The Chairman, NEPRA.
- 3. The Director General Licensing, NEPRA.
- 4. The Director General CAD, NEPRA.
- 5. The General Manager Technical, PIEDMC.
- 6. The General Manager Coordination, PIEDMC.
- 7. The General Manager Business & Development, PIEDMC.
- 8. The Chief Financial Officer, PIEDMC.
- 9. The Chief Engineer Electrical, PIEDMC.
- 10. The Company Secretary (Acting), PIEDMC.
- 11. The Project Director, RIE.
- 12. The Director, ASC Advisory (Pvt) Ltd.



PROSPECTUS

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PUNJAB INDUSTRIAL ESTATES DEVELOPMENT & MANAGEMENT COMPANY

Rahim Yar Khan Industrial Estate



456



Rahim yar Khan Industrial Estate is an ongoing project of PIED MC, aiming to bring the district of Rahim Yar Khan into the mainstream of economic growth. RIE has been developed over 456 acres of land, providing state-of-the-art industrial infrastructure to industrialists from all over Pakistan. Renowned names like Ahmed Oriental (Pvt.) Ltd. SPEL, Sunrise Plastic Industries (Pvt.) Ltd., Naseem Exports Pvt. Ltd., OS Enterprises have already become part of Rahim Yar Khan Industrial Estate. Situated exactly between Lahore and Karachi, RIE will open new doors to trade between the two provinces. District Rahim yar Khan is rich in wheat, cotton, sugarcane, mangoes, dates and has abundant livestock resources. Hence, it is a good opportunity for industrialists operating in the field of cotton ginning, leather, textile, vegetable ghee, fruit juices and plastic to invest in RIE and make use of the available resources and to generate employment for local residents. A dedicated grid station is fully functional at RIE



LOCATION

Rahim Yar Khan Industrial Estate is located at N-5 Sadiq Abad Road opposite to Data Steel Mills. It is 10.5 km away from the Railway Station, 20 km from Airport, 15 km from Grid Station and 12km from Rahim Yar Khan City.

SPECIAL ECONOMIC ZONE BENEFITS

Federal Government has granted the status of Special Economic Zone (SEZ) to Rahim Yar Khan Industrial Estate which grants it the following benefits:

10 Years Income Tax holiday. One-time exemption on all duties & taxes on plant and machinery import.





AGRI CHEMICALS, FERTILISERS, PESTICIDES ENGINEERING, CONSTRUCTION, STEEL FOOD & BEVERAGES PACKAGING, PAPER & PAPER BOARD PHARMACEUTICAL & NEUTRACEUTICAL PLASTIC WAREHOUSE & COLD STORAGE TEXTILE & GARMENTS

CHEMICALS



Scan the QR Code for more details.

CONTRACTOR INCOMENTS

PUNJAB INDUSTRIAL ESTATES DEVELOPMENT & MANAGEMENT COMPANY

Rahim Yar Khan Industrial Estate



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1. INTRODUCTION

District Rahim Yar Khan located in extreme Southern Punjab, geographically, enjoys a central location in Pakistan and has great potential to become as one of the Industrial Hubs of Pakistan. It is also in great proximity with rest of three provinces. To achieve a true benefit from the coming regional cooperation and worldwide introduction of Pakistani products as per international quality standards, Punjab Government has decided to launch different industrial estates in the Province and to improve the infrastructure in existing industrial estates. In this context, they have initiated an industrial estate in Rahim Yar Khan very recently (Figure 1).

R. Y. Khan is a very important city in Punjab, which is producing export quality notably, Cotton, Sugar, Fertilizer. products, Soap, Cosmetic etc. Unfortunately, unplanned and haphazard expansion of the City alongwith the absence of any Master Plan, permits little room to planned Industrial Estate. To meet the requirements of modern era and to overcome the burden of unplanned industrial expansion in District R. Y. Khan, Government of Punjab has planned to establish an Industrial Estate at the National Highway (N-5) in R. Y. Khan District, named as, Rahim Yar Khan Industrial Estate (RYK-IE) in 2011, which is about 15-20 minutes drive both from Rahim Yar Khan and Sadigabad Cities (Figure 2 and Figure 3).

1.1. PROJECT PROPONENT

The development of proposed Project of RYK-IE will be carried out by the Punjab Industrial Estate (PIE) which is owned by Government of Punjab. PIE established by the Government of Punjab for the expansion of Industrial areas to facilitate a chain of new industrial estates along with upgrading the existing ones in a dynamic and innovate manner and providing solutions to the problems of prospective entrepreneurs. Seed money has been provided by the Government of Punjab, which will be utilized for the development of new upcoming Planning industrial estates.

1.2. LOCATION OF THE PROJECT SITE

RYK-IE, enjoy a very unique location between two cities of Punjab, *i.e.*, Rahim Yar Khan and Sadiqabad. It is only 15-20 minutes drive away from Rahim Yar Khan and from Sadiqabad. The RYK-IE is located at the National highway (N-5), have good access to National railway line and very good proximity to Rahim Yar Khan International Airport. The RYK-IE is also easily accessible from Indus Highway through a link road. A minor canal (Sinawar) is also passing near to the Project site. The proposed site of RYK-IE is only 2.5 km/s



away from the National Railway, about 12.5 km from the city of Rahim Yar Khan (Figure 3). A combined effluent treatment plant (CETP) is also proposed to treat the industrial wastewater discharge before its disposal.



Figure 1: The Site of RYK - IE



(FINAL)



Figure 2: Location Plan of the Project







Figure 3: Strategic Location and Adjoining Areas

1.3. POSITIVE IMPACTS OF THE PROJECT

It is world known phenomena that an industrial estate establishment brings prosperity to the local community and businesses which materialized into regional and national wealth. Hence, development of RYK-IE in the sight of PIE will provide direct and indirect benefits such as:

- Poverty alleviation and generation of jobs in the Area;
- Revenue generation after selling the industrial plots to the industrialists;
- Reduction in environmental pollution due to good in-house environmental practices such as solid waste and wastewater management;
- Bringing foreign investors in Pakistan that generates revenue, ultimately it will bring development and facilities in the community. As Rahim Yar Khan already has very good connection with the investors of UAE, therefore, it is likely that it would be improve further;
- Peace of mind in business and ideal working conditions for the local residents;
- Better communication network by roads, railway and presence of cell companies and also ease in haulage of raw materials and finished commodities;
- Increase in textile, Fertilizer, Soap technology and chemicals production that will also increase the overall revenue at the local government level; and



• Professional training opportunities for skilled and non-skilled workers

1.4. REGULATORY REQUIREMENTS

In the awake of national and international awareness about environment the consciousness in Pakistan is very high in this regard The Pakistan Environmental Protection Act, 1997 makes it mandatory for the project proponents to carry out an Environmental Impact Assessment (EIA) of development projects and incorporate environmental and social mitigation measures as part of the project planning. Pak-EPA regulations (SRO 339 (I)/2000) state that an EIA is required for the Projects falling under Schedule II. The proposed Project falls under Schedule II Category B, therefore, an EIA is mandatory for the proposed RYK-IE Project.

The National Environmental Quality Standards (NEQS) define the limits for pollutants in industrial and municipal effluents, and in gaseous emissions from industries and vehicles. Extending the NEQS to air quality is revised and implemented. The Land Acquisition Act, 1894 regulates the acquisition of land and built-up property and damage to other assets such as crops, trees, and infrastructure. last but not the least, as a result of this development few people will be displaced and their livelihood erase to exist in this context. The Draft National Resettlement Policy, 2002 of the government is intended to address the rehabilitation and resettlement of disrupted populations and the restoration of their livelihoods, providing a basis for managing the resettlement needs arising from the project. To carryout above mentioned task following objectives has been set forth.

1.5. OBJECTIVES OF EIA STUDY

The specific objectives of this Environmental Impact Assessment (EIA) Study are:

- 1. To provide the environmental and social baseline conditions of the project area:
- 2. To identify adverse environmental and social impacts associated with proposed RYK-IE Project;
- 3. To propose mitigation measures for potential impacts of the project during the construction and operational phases; and
- 4. To develop an Environmental Management and Monitoring Plan (EMMP) of Ad for adverse environmental impacts.



1.5.1. Assumptions and Limitations

As the project is at planning stage, *i.e.*, Master Plan has been developed (Figure 5) for the Project and detailed design is still to be carried out after due approval of the Master Plan from the concerned authorities, so only outlines of the proposed developmental works are available and due efforts have been made to visualize the impacts due to implementation of the Project. For this purpose, detailed discussions were made with PIE as well as design staff. In absence of the detailed design some of the components of the Project, estimation/assumptions has been made and it has been considered in the preparation of this EIA Report.



No. 4//, 3. 2406 200 - 200 I hereby certify that " PUNJAB IN DUSTRITAL RETATE REVELOP MENT AND MANAGEMENT COMPANY, "13- FAMER ROAD, LABORR," is this day incorporated under the Companies Ordinance of 984, and that the company is limited by Guarantee without addition if the word "Limited" to its name. Given under my hand atNORR his day of SEP TEMPER. 2005. Two Thousand Two Thousand No. RD / 125 1/L/ 8/ 2003/ 5 37 Dated, 18,09, 2003	CERTI	IFICATE OF INCORPORATION
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THE COMPANIES ORDINANCE, 1984



(A COMPANY LIMITED BY GUARANTEE HAVING A SHARE CAPITAL)

ESTABLISHED UNDER SECTION 42 OF THE COMPANIES ORDINANCE, 1984

MEMORANDUM OF ASSOCIATION

ÖF

PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY

- The name of "The Company" is Punjab Industrial Estate Development and Management Company, having a share capital, (hereinafter referred to as "The Company").
- The registered office of "The Company" shall be situated in the Province of the Punjab, city of Lahore.
- "The share capital of "The Company" will be as follows:
 - (i) Authorized Capital R5.150.00 Million (Rupees One Hundred and Fifty Million).
 - (II) Paid-up Capital Rs. 50.00 Million (Rupees Fifty Million).

The Capital is divided into Five (05) Million Ocimary Shares of Rupees Ten (10) each.

4. The objects for which "The Company" is established are as following

- 1. "The Company" is an association of non-profit organization, within the meaning of section 42 of the Companies Ordinative 1984 and is being formed as a public company;
- organized and established for orderly, planned and rapid industrialization of Punjab, headed by a Chairman from private sector, a Board of Directors and a General Body as per Articles of Association, all to be nominated by Government of the Punjab, (hereinafter referred to as Government);
- iii. to establish new industrial Estate(s) as defined in Articles of Association of "The Company" and to upgrade those existing industrial Estate(s) as may be assigned to "The Company" by Government, in financially sustainable

Page 1 of 5.

manner and to undertake such related functions as may be entrusted by Government to "The Company" from time to time;

- to select/acquire/lease/purchase appropriate site(s) for the development of new industrial Estate(s) and to make ancillary arrangements related thereto for establishing such Estate(s) including but not limited to creation of charge, lien, mortgages, encumbrances etc.;
- v. to develop infrastructure within the Industrial Estate(s). However, "The Company" shall not engage in real estate business;
- vi. to appoint Board of Management (BOM) for each of the Industrial Estate;
- vii. to identify support services required by each industrial Estate(s) and to establish a linking mechanism with all the industries to increase productivity;
- viii. to form/incorporate/manage/administer/dispose of corporate entity(ies) as subsidiary(ies) with prior approval of the Government including but not limited to power genoration/distribution/transmission/purchase/sale and/or any other purpose deepied expedient for the fulfillment of the objects of the Company, and/or to-operate with any other company or association having similar)objects;
- ix. to facilitate the provisions of utilities like electricity, gas, telephone and medical facilities and apottent ervices for the units established or to be established within the institution estate(s);
- x. To generate edlectic power through any means of generation developed or to be developed in future and to deal in transmission, transforming, conversion, switching, gridding, sale, purchase, distribution of electric power and other utilities in all its forms and perspectives and to undertake all such activities as are connected, linked or associated therewith and seek necessary approvals/registrations/licences from relevant authorities and to do all such acts, deeds or things as would be required for effective discharge of these objects;
- xi. to provide common facilities for the industrial Estate(s) and to enter into financial transactions in furtherance thereof;
- to identify the environment preservation requirements for the benefits of the industrial Units;
- xiii. to create zoning restrictions within the industrial Estate(s);

- xiv. to promote creation of jobs by capitalization on strengths of each region by prioritizing the type(s) of industry, already prevalent in that particular area;
- xv. to collect statistical data from within the Industrial Estate(s) for undertaking future improvements;
- xvi. to promote interaction between the industrialists and Government to create an over all conducive industrial environment in the industrial Estate(s);
- xvii, to arrange workshops and meeting points for creating interaction with international investors, government regulators, non government organizations (NGOs) and various similar services organizations and bodies for creating a highly conducive local/international investment environment;
- xviii. to arrange interaction between academia and industry for creating platform to initiate research projects for the benefits of all concerned;
- xix. to provide the platform for the financial institutions to meet the stake holders and create specific products and services to solve the financial requirements of SMEs and the fiscal requirements of the financial institution(s) to create healthy loaning environment with a reduced risk of failure and to arrange systematic recovery/closure of such units;
- xx. to take necessary steps to atmact industrialists to set up units in the industrial Estate(s);
- xxi. to borrow or raise money by all legal means/instruments, with the specific permission of Government;
- xxii. to open and operate banking (recount(s), and the draw, make, accept, endorse, discount, execute and issue provident notes, bills of exchange, bills of lading, warrants, drafts, cheques, bonds, debentures and other negotiable or transferable instruments subject to compliance of relevant prudential regulations;
- xxiii. to undertake and execute such agency agreement(s) which may promote directly the objects of "The Company";
- xxiv. To print and publish any periodicals, books or leaflets in furtherance of "The Company's" objectives;
- to invest the monies of "The Company" not immediately required in short term secured investment;
- xxvi. to enter, with permission of Government into any arrangements with any government(s) and authority(ies), municipal, local or otherwise or any/

Page 1 o

person or company that may seem conducive to all or any of the objects of "The Company" and to obtain from any such government(s), authority(ies), person or company any rights, privilege, contracts, license and concessions which "The Company" may think is desirable to obtain and to carry out exercise and comply therewith;

- xxvii. to accept from any government(s) or agencies or authorities, public/private/civic bodies, corporations, companies, persons or any other source in Pakistan and abroad for use in work and to raise funds, accept any grants or money, moveable or immoveable property, donations, gifts, subscriptions, devices, bequests and other assistance with a view to promoting the objects of "The Company" and in receiving any gift or property to take the same either conditionally or unconditionally or subject to any special conditions which may be prescribed by the donor in writing and accepted by the BOD subject to such procedure prescribed by Government from time to time;
- xxviii. acquire, take-over, accept by way of gift, the assets of any other organization, body or society with similar objects or undertake and accept the management of any endowment or trust fund set up with similar objects as that of "The Company", subject to such procedure as may be prescribed by Government from time to time;
- xxix. to take such steps by president of written appeals or otherwise as may from time to time be deemed expedient, for the purpose of procuring contributions to the funds of "The Company" in the shape of donations or annual subscriptions:
- xxx. to cooperate with an company or association having objects similar to the objects of "The Company" and any company or association the objects of which are calculated either directly of indirectly to benefit "The Company" in attainment of any of its objects:
- xxxi, to propose to Government amendments in statutes, rules, orders for enabling "The Company" to carry any of its objects into effect; and
- xxxii. to do all such other lawful and charitable things as are incidental or conducive to the attainment of the above described objects;
- 5. The liability of the members is limited.
- 6. The income of "The Company" when so ever derived shall be applied solely towards the promotion of the objects of "The Company" as set forth in the Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend, bonus, remuneration or grant in the

Page 4 of 5

shape of other benefits, by way of profit, or otherwise howsoever, to the members of "The Company"; provided that nothing therein contained shall prevent the payment in good faith of remuneration to any officers or servants of "The Company" or any other person including Legal Advisor, except a Member in return for any services actually rendered to "The Company", nor prevent the payment of interest on money borrowed or rent out any property leased or hired from any person other than a Member of "The Company". No member of BOD of "The Company" shall be appointed to any salaried office of "The Company", or any office of "The Company" to its members of BOD, but the Chairman/BOD shall be provided with the facilities for boarding, lodging and/or travel domestic or abroad undertaken for furtherance of the objects of "The Company".

- 7. No addition, alteration or amendment shall be made to or in the provisions or regulations contained in the Memorandum and/or Articles of Association, for the time being in force, except in accordance with the Companies Ordinance, 1984 and with the prior approval of the Government and thereafter the same shall be submitted to and approved by the Registrar of Companies, Labore Region.
- 8. Patronage of any government or authority express or implied, shall not be claimed unless such government or authority bis signified its consent thereto in writing.
- 9. Each member of "The Company" undertakes to contribute to the assets of "The Company" in the event of its being wound up, while he is a member, or within one year afterwards for payment of the dusts and liabilities of "The Company" contracted before he ceases to be member and of The costs, charges and expenses of winding up. The sum to be contributed by the Members shall be as follows.

All Members of "The Company" shall individually contribute a sum not exceeding Rs. 1000.00 (Rupees one thousand only).

If the total sum required on winding up for payment of the debts and liabilities of "The Company" and of the said costs and expenses shall be less than Rs.1000.00 then the Member shall contribute thereto in proportion to their maximum specified liability.

10. Notwithstanding what is stated herein, if upon the winding up or dissolution of "The Company" there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall be given or transferred to Government.



Page 5 of 5

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THE COMPANIES ORDINANCE, 1984

ARTICLES OF ASSOCIATION



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PUNJAB INDUSTRIAL ESTATES DEVELOPMENT AND MANAGEMENT COMPANY (A COMPANY LIMITED BY GUARANTEE HAVING A SHARE CAPITAL)

PRELIMINARY

1. WHEREAS IT HAS BEEN agreed by several persons whose names are hereunto subscribed to establish and incorporate a Company Limited by Guarantee having a Share Capital under the provisions of the Companies Ordinance, 1984 in the name of Punjab Industrial Estate Development and Management Company (hereinafter referred to as "The Company") in accordance with the provisions of the Memorandum of Association hereto annexed and subject to several regulations hereinafter contained which shall be the regulations for management of "The Company" and for the observance of Members thereof and their representatives and the same shall subject to exercise powers of "The Company", in reference to the repeal or alteration of or addition to, its regulations by Special Resolution as prescribed by the "Ordinance", be such as are contained in "These Presents".

INTERPRETATION



- "Attorney" includes an attorney duly constituted or appointed under power of attorney or any other authority in writing.
- II. "Board of Directors" mans the bard of Directors (BOD) of "The Company" as constituted under provisions of "These Presents".
- III. "Board of Management" mean representatives of occupiers of each industrial Estate, nominated and appointed as such by BOD subject to Article 22 hereof, For the purposes of this clause an "occupier" means an owner in-possession of an industrial unit in industrial estate(s).
- IV. "Chairman" means Chairman of "The Company" duly nominated from time to time by "Government" under the provisions of "These Presents".
- IV-a "Chief Executive Officer" means the contractual employee, selected through an open competitive selection process by BOD to perform functions within the meaning of section 2(6) of the Companies Ordinance, 1984 and appointed as such in accordance with the terms and conditions to be determined by BOD.
- V. "Federal Government" means Government of Pakistan.

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- VI. "Fund" means initial amount to be provided by "Government" on loan basis on mutually agreed terms and conditions including mark-up rate with repayment period.
- VII. "General Body" means General Body of "The Company" as constituted under the provisions of "These Presents".
- VIII. "Government" means Government of the Punjab through Industries. Department.
- IX. "Industrial Estate" means an Industrial Estate managed or to be established by "The Company" anywhere in the Province of Punjab.
- X. "Independent Director" means a director who is nominated by "Government" and shall have the same meanings as ascribed thereto respectively by the "Rules".
- XI. "Legal Advisor" means an Advocate entitled to appear before any of the High Court of Pakistan or Supreme Court of Pakistan and shall be appointed by the Chief Executive Officer and approved by BOD on retainer basis.
- XII. "Local Government" means a Local Government as defined in the Punjab Local Government Ordinant, 2001 (XIII of 2001).
- XIII. "Member" means Member of "The Company" whose name appears and/or is borne on the Register, as envisaged by Section 2(21) of the "Ordinance".
- XIV. "Month" means English calendar month. "
- XV. "Office" means the registered office of "//he Company".
- XVI. "Ordinance" means the companies Ordinance, 1984 and every statutory modification thereof for the time being in force.
- XVII. "Prescribed" means as prescribed by BOD from time to time.
- XVIII. Rules" means the Public Sector Companies (Corporate Governance) Rules, 2013 and every statutory modification thereof for the time being in force.
- XIX. "Register" means the Register of Members to be kept pursuant to the "Ordinance".
- XX. "Seal" means the common Seal of "The Company".
- XXI. "Secretary" means any individual appointed to perform the secretarial, administrative or other duties ordinarily performed by the secretary of a company.
- XXII. "Special Resolution" and "Ordinary Resolution" have the same meanings as assigned thereto respectively by the "Ordinance".
- XXIII. "These Presents" means and include Articles of Association and any modification or alteration thereof for the time being in force.
- XXIV. Words importing singular number only include the plural number.
- XXV. Words importing plural number only include the singular number.

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- XXVI. Words importing masculine gender only include the feminine gender.
- XXVII. Words importing feminine gender only include the masculine gender.
- XXVIII. Words importing persons include bodies corporate and otherwise, firms, registered or un-registered associations, and non-government, semi-government and government organizations.
- XXIX. Words of expressions in "These Presents" shall, except where it is repugnant to the subject or context, bear the same meanings as in a Standard English Dictionary.
 - XXX. "Written" and "In Writing" includes printing, lithography, type-writing, telex, tele-facsimile (fax) and other modes of representing or reproducing words in a visible form.

BUSINESS OF "THE COMPANY"

3. The business of "The Company", its affairs and/or functions shall comprise of achieving the objects given in the Memorandum and include undertaking of all or any of the several objects, and any act, deed or thing done in pursuance thereof, ancillary and/or incidental thereto as expressed in, and authorized by the Memorandum of Association hereto annexed, and can be commenced immediately after incorporation of "The Company" as BOD may think fit.

SHARE CAPITAL OF "THE COMPANY"

- 4. The Equity of "The Openany" which shall be provided by the "Government" as follows:
 - Authorized Capital Rs. 150.00 Million Supres One Hundred and Fifty Million
 - Paid up Capital
 Rs. 30.00 Million (Rydees Fifty Million)

The Capital shall be divided into the tot time, by Special Resolution, increase, consolidate, subdivide, reduce or otherwise reorganize the Share Capital, subject to the "Ordinance" and with prior approval of the "Government".

TRANSFER AND TRANSMISSION OF SHARES

5. The "Government" shall have the exclusive right to transfer any share.

No shares can be mortgaged, pledged, sold, hypothecated, transferred or disposed of by any Member without previous sanction of Government.

In case of death of any Member, his share shall automatically stand transferred to Government, which shall have the exclusive right to allot the same to any other person/institution/entity.

MEMBERSHIP

6. The subscribers to "These Presents" and to the Memorandum of Association hereunto annexed shall be admitted to the Membership of "The Company" from time to time and shall be deemed to have agreed to become a "Member" of "The Company" in

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accordance with and in pursuance to "These Presents" and whose names appear in the Register, shall be the "Member" of "The Company".

7. The total number of members of BOD of "The Company" shall be fifteen (15), who shall be nominated by "Government". Nine (09) members including the Chairman shall be the Independent Directors nominated by "Government". Six (06) members of the BOD shall be the Secretaries to the "Government" for Industries Department, Finance Department, Labor & Human Resource Department Chairman TEVTA., Chief Executive Officer of "The Company" and Chief Executive Officer of Punjab Board of Investment & Trade (PBIT) shall be appointed *ex-officio*.

Subsequent vacancies arising thereafter of members of BOD shall be filled in accordance with "These Presents". Due regard shall be given to skills and discipline in the composition of "General Body". Any person, who is a loan defaulter, or is a sponsor of a company which is in loan default, or otherwise ineligible to hold any such post under or by any law cannot be a member of BOD.

- 8. Any person/industrial estate/organization interested in the promotion of good governance and engaged in any voluntary activity with a proven record of Industrial experience is eligible to become a "Member" of "General Body" on invitation by BOD and approval of "Government", except a person/industrial estate/organization who is a loan defaulter, or is a sponsor of company which is a loan defaulter, or otherwise ineligible to hold any such post under or by any law. Such person/industrial estate/organization or a private individual having receipt of comment's ervice but his/its Membership of "The Company" will be in his/its individual capabily.
- 9. "The Company" shall maintain a Roll of "Members", clearly indicating their full names, addresses and, occupations and every "Member" shall sign the same. If a "Member" of "The Company" changes his address, he shall forthwith notify his new address to "Secretary" of "The Company", who shall thereupon cause the new address to be put on the Rolls of "Members". Where, however, a "Member" does not notify any change of address to the "Secretary", the address appearing on the Rolls of the "Members" shall be deemed to be correct address of the "Member". The said Roll of "Members" also called "Register" shall be maintained at the Office of "The Company".
- 10. Membership of "The Company" may be terminated on the happening of any of the tollowing events:
 - 1. On the "Member's" death, resignation, insolvency, lunacy or conviction for an offense involving moral turpitude.
 - When a "Member" does not attend three consecutive General Meetings of "The Company" without prior leave of absence granted by BOD.
 - III. When "The Company" in General Meeting, by a simple majority, decides to terminate the Membership of any person who acts in a manner prejudicial to the interests of "The Company", fails to fulfill any obligation required by "The Company" or acts in a manner as is not conducive to the objects of "The Company".

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- 11. Subject to the foregoing and/or other provisions, Membership of "The Company" shall be open to all Pakistani citizens.
- 12. If a vacancy occurs, among the "Members", such vacancy shall be filled in as provided in Article (08) supra.
- 13. When a "Member" desires to resign from his Membership of "The Company", he shall forward his letter of resignation to the Chairman and such resignation shall take effect only from the date of its acceptance by BOD.
- 14. "The Company" shall function notwithstanding any vacancy in any of its bodies and no act, direction or proceeding of "The Company" shall be rendered invalid merely by reason of such vacancy or because of any defect in the appointment of any of the officers of "The Company".
- 15. The Chairman and the members of BOD will not be paid any remuneration but will be provided traveling, boarding, lodging traveling and transportation facilities on such terms as decided by BOD.
- 16. "Members" of "The Company" shall not be ball new remuneration or dividend.

OFFICERS OF "THE COMPANY"

- 17. "The Company" shall comprise the following: ...
 - I. General Body
 - II. 80D
 - III. Chairman
 - IV. Chief Executive Officer
 - V. Secretary
 - VI. Board of Management for specific industrial Estates, exercising such powers as may be specifically "Prescribed" by BOD.

GENERAL BODY

- There shall be a "General Body" of "The Company", which shall comprise of all the shareholders.
- 19. The Chairman shall preside over all meetings of "General Body".
- 20. The Chairman may invite any person other than a Member to attend a meeting of "General Body". Such invitee to be known as special invitee, shall not, however, be entitled to vote at the meeting.
- 21. "General Body" shall have the following powers and functions, namely:
 - a. to give overall policy guidance and direction for the efficient functioning of "The Company";
 - b. to approve the annual budget;
 - to consider the balance sheet and audited accounts for the previous year;



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- d. to consider the annual report prepared by BOD;
- to amend "These Presents", if deemed necessary, by way of addition, alteration, modification or substitutions, in accordance with the "Ordinance" and with prior approval of the "Government" only after which the same shall be submitted to and approved by the Registrar Companies, Lahore Region.
- f. to appoint auditors except the First Auditors to be appointed by BOD.

POWER OF NOMINATION AND/OR TERMINATION

22. The power to nominate and/or terminate the Chairman, any Director or the "Member" of "General Body" shall vest with the "Government". The "Government" may also supersede BOM of industrial estates or appoint or remove member(s) thereof.

GENERAL MEETINGS

- 23. The First Annual General Meeting of "The Company" shall be held at such time not more than eighteen (18) months after the incorporation of "The Company", and at such time and place as BOD may determine.
- 24. Subsequent Annual General Meetings of "The Company" shall be held at least once every year at such time and place as may be determined by BOD, within fifteen calendar months after the proportion sast preceding General Meeting and within four months from the classe of the annual seconds.
- 25. The above named General Meetings shall by Halled Annual General Meetings. All other meetings of "The Company" shall be cating Extraordinary General Meetings.
- 26. BOD may at any time call for an Extraordinary General Meeting and shall, on the requisition of the Members representing pat, has than one-third of the voting power on the date of deposit of requisition of call an Extraordinary General Meeting.
- 27. Any such requisition shall specify the objects of the Meeting and shall be signed by the makers, and shall be deposited at the Office. The meeting must be convened for purposes specified in the requisition only.
- 28. If BOD does not proceed to cause a meeting to be held within twenty one days from the date of requisition being deposited, the makers or a majority of them may themselves convene a meeting to be held not more than three months, from the date of deposit of the requisition.
- 29. Any meeting convened through requisition shall be convened in the same manner, as nearly as possible, as that in which meeting is convened by BOD.
- 30. Subject to the provisions of the "Ordinance", relating to Special Resolutions, twenty one days notice, at least (exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day on which the notice is given), specifying the place, the day and the hour of the meeting, and in case of special business, the general nature of such business, shall be given of every General Meeting whether Annual or Extraordinary to the "Members" in the manner in which notices

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are required to be served in accordance with the provisions contained herein below. Notwithstanding anything contained herein before, a meeting may be convened by such shorter notice and in such manner as those "Members" may think fit with the consent of all the "Members" entitled to receive notice thereof and the permission of the Registrar Companies, Lahore Region.

31. The accidental omission to give any such notice to or the non-receipt of notice by any of the "Member" shall not invalidate the proceedings of any such meeting.

PROCEEDING AT GENERAL MEETINGS

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- 32. The business of an Annual General Meeting shall be to receive and consider the income and expenditure account and balance sheet, the Annual Report of BOD and of the Auditors, if required or found necessary, and the appointment of the Auditors and fixation of their remuneration and to transact any other business which may be transacted at an Annual General Meeting. All other business transacted at Annual General Meeting and all business transacted at an Extraordinary General Meeting shall be deemed special.
- 33. Two third (2/3) of the voting power of "Monbels" of (The Company" present personally, shall be a quorum for a General Meeting for althourpases. No business shall be transacted at any General Meeting unless the quorum is present at the commencement of business.
- 34. If within an hour of the time appointed for the meeting if quorum is not present, the meeting if called on the requisition of "Members", shall be disorded. In any other case, it shall stand adjourned to the same day in the new week at the same time and place, and if at the adjourned meeting, a quorum? For present within half an hour from the time appointed for the meeting, "Members" being not less than one fourth (1/4) of the total voting power of "Members" of "The Company", shall be a quorum.
- 35. The Chairman shall be entitled to take the chair at every General Meeting of "The Company". If the Chairman is unable due to sickness or some other unavoidable reasons, BOD may elect one of the Director's to preside.
- 36. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting), adjourn the meeting from time to time and from place to place, but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for ten days or more, notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid, it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.
- 37. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll (before or on the declaration of the result of the show of hands) demanded in accordance with the provisions of the "Ordinance" and unless a poll is so demanded, a declaration by the Chairman that a resolution has, on a show of hands, been carried or carried unanimously or by a particular majority



and an entry to that effect in the book of the proceedings of "The Company" shall be conclusive evidence of the fact, without proof of the number or proportion of the votes recorded in favor of, or against, that resolution.

- 38. If a poll is duly demanded, it shall be taken in such manner as the Chairman shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.
- 39. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting at which the show of hands takes place, or at which the poll is demanded, as the case may be, shall be entitled to a casting vote.
- 40. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

- 41. On a show of hands and on a poll, every Member present in person shall have vote(s) according to the shareholding. Voting by proxy is allowed as envisaged by the "Ordinance".
- 42. Any corporation or body corporate which is a Member of "The Company" may by resolution of its directors or other governing body, authorize such person as it thinks fit, to act as its representative at any meeting of "The Company". The persons so authorized shall be entited to exercise the same powers on behalf of the corporation which he represents as that corporation could exercise if it were an individual Member of "The Company" present in parson. A corporation or body corporate, as the case may be, attending a meeting through such representative shall be deemed to be present at the meeting hyperson.

BOARD OF DIRECTORS (BOD)

- 43. The BOD shall comprise a (fifteen (15) members of which nine (09) members including the Chairman shall be the Independent Directors. The remaining six (06) members shall be the following
 - Secretary Industries
 - Secretary Finance
 - Secretary Labor and Human Resource Development
 - Chairman TEVTA
 - Chief Executive Officer of "The Company"
 - **Chief Executive Officer PBIT**
- 44. The affairs of "The Company" shall be managed by BOD, which shall have the responsibility to determine the direction and scope of the activities of "The Company" in accordance with the objectives specified in Memorandum of Association. It shall also have the responsibility to approve projects and assignments as well as providing technical assistance as may be mutually agreed upon, to the "Local Governments" and to approve and administer the annual and supplementary budgets.

- 45. The term of office of a member of BOD shall be three years, unless he resigns earlier or becomes disqualified from being a Director or otherwise ceases to hold office.
- 46. No member of BOD shall serve for more than three (03) consecutive terms of three (03) years each except ex officio members.
- 47. Members of BOD shall function in their individual capacity exercising individual judgment under the Chairman, and shall not be subjected to or be bound by instructions or orders of the office; organization or agencies with which they may be associated, except *ex officio* members.
- 48. No action or decision by BOD shall be rendered invalid or inoperative on account of any vacancy or vacancies in the composition of BOD.
- 49. The meetings of BOD shall be held in the following manner:
 - The BOD shall hold at least six regular meetings every year and shall be called by notice under the signature of "Secretary".
 - All meetings of BOD shall be presided over by the Chairman or in his absence, by a Director to be elected by BOD.
 - c. Minutes of the meetings of BOD shall be recorded by "Secretary" or in his absence by a member of BOD, appointed by the Chairman. The minutes shall be duly approved or corrected at the following secular meeting and filed in the permanent records of "The company".
 - d. Members of BOD shall not receive any compensation for their services to "The Company" and/or any profit dut of the business of "Discompany".
- 50. Every notice calling for a meeting of BOD shall state "In Writing" the date, time and place of the meeting and shall be sent to every member of BOD ordinarily seven clear days before the day appointed for the meeting. TANKED ordinarily seven clear
- 51. Any inadvertent omission to give notice or the non-receipt or late receipt of a notice by any member shall not invalidate the proceedings of the montings.
- 57. At least 1/4th of the members of the BOD shall constitute a quorum provided at least one Director shall be the representative of the "Government".
- 53. Each member of BOD shall have one vote. All questions at meetings of BOD shall be determined by a vote of members present, provided that in case of equality of votes, the Chairman shall have a casting vote.
- 54. Subject to the "Ordinance" any business which BOD may consider necessary to perform, except such as may be required to be placed before "General Body" in general meeting, may be performed by a resolution in Writing circulated among all members of BOD, and any such resolution so circulated and approved by a majority of the members signing, shall be as effectual and binding as if a resolution had been passed at a meeting of BOD.
- 55. The proceedings of the meeting of BOD and resolution passed by the circulation shall be recorded in a book which shall be maintained by "The Company" for this purpose 30 Adv

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- 56. BOD shall exercise all executive and financial powers of "The Company", subject to such direction as may be issued by "General Body" from time to time.
- 57. The BOD shall be responsible for developing the policy guide lines for over-all management and administration of "The Company" and in particular and without prejudice to the generality of the foregoing provisions, BOD shall have the powers, subject to the provisions hereof, *inter alia*:
 - establish byelaws and service rules of "The Company";
 - II. to constitute or to reconstitute Board of Management(s) for the industrial estates established, developed or managed by "The Company" and appoint members, fill casual vacancy(ies) and to remove any or all member(s) thereof;
 - III. to devise eligibility criteria and to establish operational policies including those relating to finance(s) for "BOM" of the Industrial Estate(s) established, developed or managed by "The Company";
 - IV. prepare and execute detailed plans and programs for the furtherance of the objects of "The Company";
 - Consider the activat and supplementary budgets placed before it and pass them with such machines are may be deemed necessary for being submitted to "General Body";
 - VI. prepare samual report and cause the preparation of accounts of "The Company" for consideration of "General Body";
 - VII. create posts and appoint such contractual staff as may be required for efficient management of afferrs of the "The Company" and regulate the recruitment and some and conditions of their services;
 - VIII. receive and to have custody of Funds and resources of "The Company", operate "The Company" and manage the properties of "The Company":
 - IX. incur expenditures subject to the provisions of the approved budget;
 - enter, for and on behalf of "The Company", into agreements including those containing arbitration clauses;
 - St. establish, maintain, amaigamate and/or close down 'the company' offices etc. as may be deemed appropriate;
 - XII. to propose investment scenarios relating to Industrial Estate(s) development to Government;
 - XIII. to promote the establishment of common technical facility centers for up gradation of technologies used by the occupier(s) of industrial Estate(s);
 - XIV. appoint boards, committees, sub-committees and panels, consisting of persons who may or may not be Members of "The Company" or employees of "The Company" to deal with any specific task as may be determined from time to time and to confirm the appointment of Legal Advisor appointed by the Chairman;

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- XV. to impose and recover fees and charges for the services rendered by "The Company"; and
- XVI. to contract out operational and management functions as and when required, to reputable firms or companies;
- 58. BOD may by resolution delegate such administrative, financial and other powers to the Chairman. Chief Executive, committees, sub-committees, panels and boards or any other officer of "The Company" as it may consider necessary and proper, subject to the condition that action taken by them under the powers so delegated, shall have to be confirmed and/or ratified in the next meeting of BOD.

CHAIRMAN

- 59. A. The Chairman shall be nominated by the "Government".
 - B. The Chairman shall not be paid any remuneration for his services, but shall be provided all secretarial/material/ technical support in order to facilitate the efficient handling of "The Company". He will also be provided boarding, lodging, traveling and transportation facilities and shall be reimbursed for out of pocket expenses.
- 60. The Chairman shall be responsible inter alia for:
 - coordinating and exercising general supervision over all activities of "The Company"; and
 - II. any other task as may be delegated by BOD.

CHIEF EXECUTIVE OFFICER (CEO):

60 A. a. The CEO shall be a contractual employee to be hired for a period of three years renewable term. He shall be duly selected through an open competitive selection process by the BOD from private sector having engineering/management qualification and experience of at least 10 years managing industrial projects, and appointed as such in accordance with terms and conditions of his appointment to be determined by BOD.

b. The CEO shall work under the directions of the BOD through Chairman and he shall be responsible for day-to-day management and administration of "The Company". Without prejudice to the generality of the foregoing, he shall be responsible:

- to determine powers, duties and fix salaries or emoluments of the managers, secretaries, officers, clerks and employees, either permanent or temporary and to require security in such instances and to such amount as deemed appropriate;
- II. to prescribe duties of all employees and staff of "The Company";
- III. to make, draw, endorse, sign, accept, negotiate and give cheques, bills of lading, drafts, orders, bills of exchange, promissory notes and other negotiable instruments in the amount(s) and manner as allowed/approved by BOD;

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- IV. to institute, conduct, defend or abandon any legal proceedings by or against "The Company" in consultation with Legal Advisor or otherwise concerning the affairs of "The Company" and also to compound and allow time for payment or satisfaction of any debt due and of any claim or demand by or against "The Company";
- V. proper administration of the affairs, "Funds" and resources of "The Company";
- VI. to secure fulfillment of any contract, agreement or engagement entered into by "The Company" by mortgage or charge of all or any of the properties of "The Company" from time to time or in such manner as he may think fit in the interest of "The Company";
- VII. to appoint and to remove or suspend managers, secretaries, officers, clerks and employees, either permanent or temporary, and to determine their powers, duties and fix their salaries or emoluments and to require security in such instances and to such amount as deemed appropriate;
- VIII. to refer any claims or demands by or against "The Company" to arbitration and observe and perform the awards, in consultation with Legal Advisor;
 - IX. to exercise supervision and disciplinary control over the work and conduct of all employee out The Company in accordance with Human Resource and Administration Policy/Rules of Regulations approved by the BOD;
 - X. to delegate any of his function(s) to any officer of "The Company" with permission of the BOD" () (2))
- XI. any other task assigned by BOD. */

POWERS AND DUTIES OF BOD

61. The business of "The Company" shall be managed by BOD, who may exercise all such powers of "The Company" as are required by the "Ordinance".

RESOURCES OF "THE COMPANY"

- 62. The resources of "The Company" shall consist of the following:
 - I. grants made by "Government":
 - II. fee and charges imposed by "The Company" for services rendered by it; and
 - III. Income and receipt from other sources:
- 63. "The Company" may in furtherance of its objectives;
 - I. invest and deal with "Funds" and monies of "The Company" according to "These Presents";
 - Borrow and raise resources for "The Company" according to "These Presents";

Page 12 of 16

- draw, accept, make, endorse, sign, negotiate, deposit, promissory notes, bills of exchange, cheques or any other negotiable instruments; and
- IV. create, with the permission of "Government", a reserve company, sinking company, insurance company or any other special company whether for depreciation, repair, improvement, extension or maintenance of any of the properties or rights of "The Company" and/or for recouping wasting assets and for any other purposes for which "The Company" deems it expedient or proper to create or maintain any such company or companies.
- 64. All properties of "The Company", moveable or immovable, shall vest in "The Company" and shall be administered by Chief Executive Officer, on behalf of "The Company" within the parameters set by "The Company" in its General Meeting or otherwise as directed by BOD.
- 65. "The Company" may purchase, hire, lease, exchange or otherwise acquire property, moveable or immovable, tangible or intangible (including copyrights, patents and intellectual properties) which may be necessary or convenient for the purpose of "The Company" and construct, alter and/or maintain such buildings and works as may be necessary for carrying out the objects of "The Company" errorided that for acquisition or disposal of immovable property through and construct of "Government" shall be mandatory.
- 66. The income and the property of "The Company", however derived, shifting applied towards the promotion and furtherance of the objectives of "The Company" as set forth in the Memorandum of Association hereto antoned. Save as otherwise provided elsewhere, no portion of the income and property of "The Company" shall be paid or transferred directly or indirectly by way of dividence or by yay of profit to persons who at any time are or have been "Members" of "The Company" or to any of them or to any person claiming through them provided that nothing herein shall prevent the payment in good faith any remuneration to any employee or other person in return for services rendered to "The Company" or for traveling allowance, and other similar out of pocket expenses.
- 67. A. All funds should be paid into "The Company's" account(s) with the bank(ers) of "The Company" and shall not be withdrawn except by cheque signed by authorized representatives in accordance with the procedure to be "Prescribed";
 - B. Unless otherwise authorized by BOD, no new account in the name of "The Company" shall be opened.

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Page 13 of 16

THE SEAL

68 The "Seal" shall not be affixed to any instrument except by the authority of a resolution of the BOD and in the presence of at least two members of BOD or such other persons as BOD may appoint for the purpose and they shall sign every instrument to which the "Seal" is affixed in their presence.

ACCOUNTS

- 69. The BOD shall cause to be kept proper books of accounts as required under section.230 of the "Ordinance".
- 70. The books of account shall be kept at the "Office" or at such other place as BOD shall think fit and shall be open to inspection by the members of BOD during business hours.
- 71. BOD shall from time to time determine whether and to what extent and at what time and places and under what conditions or regulations, the accounts and books or papers of "The Company" or any of them shall be open to the inspection of Members not being members of BOD and no Member (not being a member of BOD) shall have any right of inspecting any account and book or papers of "The Company" except as conferred by law or authorized by BOD or by "The Company" in General Meeting.
- 72. BOD shall cause to be prepared and to be laid before "The Company" in General Meeting such profit and loss accounts or income and expenditure accounts and balance-sheets duly audited and reports as are required by sections 233 and 236 of the "Ordinance".
- 73. A balance-sheet, profit and loss account, income and expenditure account and other reports referred to in Article 42 supra shall be made out in every year and laid before "The Company" in the Animal General Meeting and made up to a date not more than four (04) months before such meeting. The balance-sheet and profit and loss account or income and expenditure account shall be accompanied by a report of the Auditors of "The Company" and the report of BOD.
- 74. A copy of the balance-theet and profit and pss account or income and expenditure account and reports of BOD and Auditors, shall, at least twenty one days preceding the meeting be sent to the persons writined to receive notices of General Meetings in the manner in which notices are to be given hereunder.
- 75. BOD shall in all respects comply with the provisions of sections 230 to 236 of the "Ordinance".

AUDIT

- 76. The appointment and duties of the auditor(s) shall be regulated in accordance with the "Ordinance".
- 77. A. "The Company" at each Annual General Meeting shall appoint an auditor(s) being chartered accountant(s) to hold office until the next Annual General Meeting and the following provisions shall have effect, that is to say:

If an appointment of an auditor(s) is not made at an Annual General Meeting, the Securities and Exchange Commission may appoint an auditor(s) as per provisions of the "Ordinance".

 A member of BOD or an officer of "The Company", or a partner of or person in the employment of such member of BOD or officer or any person, indebted to "The Company" shall not be appointed auditor of "The Company".

- II. If any person after being appointed auditor becomes indebted to "The Company", his appointment shall thereupon be terminated.
- III. The First Auditor(s) of "The Company" may be appointed by BOD within 60 days of the date of incorporation and auditor(s), if so appointed, shall hold office until the first Annual General Meeting, unless previously removed by a resolution of "The Company" in General Meeting in which "Member" of "The Company" may appoint auditor(s) at such a meeting.
- IV. Retiring auditor(s) shall be eligible for re-appointment.
- V. No person other than a retiring auditor(s) shall be capable of being appointed to the office of the auditor at the Annual General Meeting unless notice of an intention to nominate him be given to "The Company" not less than fourteen days before the day fixed for the holding of such Annual General Meeting and upon receipt of such notice, the provisions of the "Ordinance" shall be complied with.
- B. Any other audit of "The Company" shall be conducted as provided in the "Ordinance".
- 78. The remuneration of the auditor(s) shall be fixed by "The Company" in the General Meeting except that the remuneration of any auditor(s) appointed before the first Annual General Meeting or to fill any casual vacancy may be fixed by BOD.
- Every auditor of "The Company" stability a right of access at all times to the books. 79. assets and accounts and voicher of "The Company" and shall be entitled to require from the members of BOD and officers of "New Yompany" such information and explanation as may be necessary for the performance of duties of the auditor(s) and auditor(s) shall make a roport to Mombers of the Company" on the accounts examined by them, and an every balance-sheet; income and expenditure account laid before "The Company" in the General Meeting, during their tenure of office and the report shall state whether or not the have obtained all information and explanations they have required and whether or not in their opinion the balancesheet, is in conformity with the law and whether or not such balance-sheet, and income and expenditure account, exhibit true and correct view of the state of "The Company's" affairs according to the best of their information and explanations given to them as shown by the books of "The Company" and whether or not in their opinion the books of accounts have been kept by "The Company" as required by the "Ordinance"; where any of the matters referred to herein above and answered in the negative or with a qualification, the report shall state the reasons for such answers and the report shall be attached to the balance sheet, income and expenditure account and such report shall be read before "The Company" in a General Meeting and shall be open to inspection by any "Member".
- 80. The auditor(s) shall be entitled to receive notice of and to attend all General Meetings of "The Company".
- 81. Every account when audited and approved by the General Moeting shall be conclusive except as regards any error discovered therein within three months after the

after the CAdvi Page 18 of 10 ASC approval thereof. Whenever any such error is discovered within that period, the account shall forthwith be corrected and henceforth shall be conclusive.

NOTICE

- 82. A notice may be given by "Secretary" to any "Member" either personally or by sending it by post to him to his registered address.
- 83. Where a notice is sent by post, service of the notice shall be effected by properly addressing, pre-paying and posting a letter containing the notice and unless the contrary is proved, notice shall be deemed to have been effected at the time at which the letter would be delivered in the ordinary course of post.
- 84. Notice of every General Meeting shall be given in a manner described supra to every "Member".

INDEMNITY

85. Every "Member" of "The Company" and BOD, the Chairman, Chief Executive Officer or any other officer or employee of "The Company" shall be indemnified by "The Company" against all costs, losses which they may incur or become liable to pay by reason of any contract entered into or act or deed done by them in discharge of their duties in good faith any any coccasioned by any error of judgment, damage or misfortune which may happen, in the execution of their duties in connection with affairs of "The optipany".

POWER OF GOVERNMENT

86. Power to authorize the development, and up-gradation of existing or new "Industrial Estate(s)" shall vest in the "Government".

AMENDMENT

87. "These Presents" may, subject to clause 7 of the Memorandum of Association, be amended, modified, substituted, altered or repeated by a three fourth majority of the voting strength of the "Members" present and voting on a Special Resolution for the purpose in an Extraordinary General Meeting of the "Members", provided that a notice "In Writing" specifying the intention to propose the resolution as a Special Resolution shall have been served on "Members" of "The Company" at least twentyone days prior to the meeting.

/ DISTRICT OFFICT.R (IPWM) (For Registrar Joint Stock Companies Lahure

Page 16 of 16

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INDY 9
ANNUAL REPORT





An instinct for growth

Grant Thornton Anjum Rahman

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1-Inter Floor, Eden Centre, 43-Jail Road, Lahore 54000, Pakistan. T +92 42 37423 621-23, 37422 987 F +92 42 37425 485 www.gtpak.com

Independent Auditor's Report

To the members of Punjab Industrial Estate Development and Management Company

Report on the Audit of the Financial Statements

Opinion

We have audited the annexed financial statements of **Punjab Industrial Estate Development and** Management Company (the Company), which comprise the statement of financial position as at June 30, 2018, and the statement of income and expenditure and other comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information, and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, statement of profit or loss and other comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and respectively give a true and fair view of the state of the Company's affairs as at June 30, 2018 and of the surplus and other comprehensive income, the changes in equity and its cash flows for the year then ended.

Basis for Opinion

We conducted our audit in accordance with International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants as adopted by the Institute of Chartered Accountants of Pakistan (the Code) and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Emphasis of Matter

As disclosed in note 13 to the financial statements, the Company has received various lands for estates development in the form of loan from Government of Punjab. These loans have been classified as current liabilities due to the fact that terms of these loans have not been formalized with the Finance Department of Government of Punjab through agreements.

Covi of Punjab



Information Other than the Financial Statements and Auditor's Report Thereon

Management is responsible for the other information. The other information comprises directors' report, but does not include the financial statements and our auditor's report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of Management and Board of Directors for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the accounting and reporting standards as applicable in Pakistan and the requirements of Companies Act, 2017(XIX of 2017) and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Board of directors are responsible for overseeing the Company's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs as applicable in Pakistan will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs as applicable in Pakistan, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.





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- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the board of directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Report on Other Legal and Regulatory Requirements

Based on our audit, we further report that in our opinion:

- a) proper books of account have been kept by the Company as required by the Companies Act, 2017 (XIX of 2017);
- b) the statement of financial position, the statement of income and expenditure and other comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes thereon have been drawn up in conformity with the Companies Act, 2017 (XIX of 2017) and are in agreement with the books of account and returns;
- c) investments made, expenditure incurred and guarantees extended during the year were for the purpose of the Company's business; and
- d) no zakat was deductible at source under the Zakat and Ushr Ordinance, 1980 (XVIII of 1980).

Other Matter:

The financial statements of the Company for the year ended June, 2017 were audited by another auditor who expressed an unmodified opinion on those statements on November 25, 2019.

The engagement partner on the audit resulting in this independent auditor's report is Imran Afzal.

- Aypun Valunan ERED ACCOU

Lahore

Dated: July 5, 2021







Grant Thornton Anjum Rahman 1-Inter Floor, Eden Centre, 43-Jail Road, Lahore 54000, Pakistan. T +92 42 37423 621-23, 37422 987 F +92 42 37425 485 www.gtpak.com

Review Report to the Members On the Statement of Compliance with the Public Sector Companies (Corporate Governance) Rules, 2013

We have reviewed the enclosed Statement of Compliance with the best practices contained in the Public Sector Companies (Corporate Governance) Rules, 2013 (the Rules) prepared by the Board of Directors of *Punjab Industrial Estate Development and Management Company* (the Company) for the year ended June 30, 2018.

The responsibility for compliance with the Rules is that of the Board of Directors of the Company. Our responsibility is to review, to the extent where such compliance can be objectively verified, whether the Statement of Compliance reflects the status of the Company's compliance with the provisions of the Rules and report if it does not and to highlight any non-compliance with the requirements of the Rules. A review is limited primarily to inquiries of the Company's personnel and review of various documents prepared by the Company to comply with the Rules.

As a part of our audit of the financial statements we are required to obtain an understanding of the accounting and internal control systems sufficient to plan the audit and develop an effective audit approach. We are not required to consider whether the Board of Directors' statement on internal control covers all risks and controls or to form an opinion on the effectiveness of such internal controls, the Company's corporate governance procedures and risks.

The Rules requires the Company to place before the Audit Committee, and upon recommendation of the Audit Committee, place before the Board of Directors for their review and approval its related party transactions distinguishing between transactions carried out on terms equivalent to those that prevail in arm's length transactions and transactions which are not executed at arm's length price and recording proper justification for using such alternate pricing mechanism. We are only required and have ensured compliance of this requirement to the extent of the approval of the related party transactions by the Board of Directors upon recommendation of the Audit Committee. We have not carried out any procedures to determine whether the related party transactions were undertaken at arm's length price or not.





Chartered Accountants Member of Grant Thornton International Ltd Offices in Karachi & Islamabad Based on our review, nothing has come to our attention which causes us to believe that the Statement of Compliance does not appropriately reflect the Company's compliance, in all material respects, with the best practices contained in the Rules as applicable to the Company for the year ended June 30, 2018.

Grant Thornton Anjum Rahman Chartered Accountants City: Labo

City: Lahore Dated: July 5, 2021

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LAST ANNUAL RETURN



THE COMPANIES ACT, 2017 THE COMPANIES (GENERAL PROVISIONS AND FORMS) REGULATIONS, 2018 [Section 130(1) and Regulations 4]

ANNUAL RETURN OF COMPANY HAVING SHARE CAPITAL

PART-I

(Please complete in typescript or in bold block capitals.)

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2.1	Registered office address:	ž		ior,					(North	-			ıstrial	
2.2	Email Address:	$\left(\right)$			coi	porat	•@	pie.co	m.pk					
2.3	Office Tel. No:	14		nig	; 04	2-352	972	03-06						
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Chief Financial Officer)



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FORM A

2.	7.0

Authorized Share Capital			
Class and kinds of Shares	No. of Shares	Amount	Face Value
Ordinary Shares	15,000,000	Rs. 150,000,000/-	Rs. 10/-

2.8

Paid up Share Capital			
Class and kinds of Shares	No. of Shares	Amount	Face Value
Subject to payment wholly in cash	5,000,000	Rs. 50,000,000/-	Rs. 10/-

2.9

Particulars of the holding/su	bsidiary company,	if any	
Name of company		Holding/Subsidiary	% of share held
NIL	<u></u>	NIL	NIL
Chief Executive Officer:			

2.10 Chief Executive Officer:

Name	Ali Mu	lazzam	Syed			1							
Address	North	Comme	rcial A	Area,	Sun	dar In	dustri	al Est	ate, L	ahore			
NIC #	3 5	2	0 `	1/	-	8	2	7	9	6	8	6	 3

2.11 Chief Financial Officer:

Chief Financial G	ffice	r:		, ¥	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		بر م								
Name	Har	nood	-ur-R	lahma	n										
Address	Nor	th Co	omme	rcial	Area,	Sunc	lar Ind	lustria	il Est	ate, L	ahor	8.			
NIC#	3	7	4	0	5	-	9	8	3	5	7.	4	3	-	5

2.12 Secretary:

Name	M. 5	Shafi	q ur R	lehm	111						<u></u>			<u> </u>	
Address	Nor	th Co	mme		Area,	Sunc	lar Ind	ustria	l Est	ate, L	ahore	.			
NIC #	3	5	2	Ø	2	-	9	7	2	7	1	4	5		1

2.13 Legal Advisor:

Name	M/s Ahmed and Pansota
Address	20 - Ganga Ram Mansions, The Mall, Lahore, Pakistan.

2.14 Particulars of Auditor(s)

	ant Thornton Anjum Rahman (GTAR)
Address 1-lr	nter Floor Eden Center 43 Jail Road Lahore.
NIC #	

2.4 Particulars of Share Registrar (if applicable)

Name	N.A
Address	N.A
e-mail	N.A

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Section-B:

2.16 List of Directors as on the date annual return is made:

r. #	Name	Residential Address	Nationality	N	IC	N	0. ((P1	185	po	ort	No). ii	' fo	re	igı	ier		Date of Appointment or election
1	Syed Nabeel Hashmi	Thermosole Industries (Pvt.) Ltd. 140 Main Industrial Area, Kot- Lakhpat, Lahore.	Pakistani	3	5	2	0	2	-	2	6	9	8	5	7	4		5	Govt. of Punjab constituted Board of Directors vide Notification # AEA-[-15- 22/2002(P-V) of ICI & SD Department dated 4-9-2019
2	Ahsan Mahmood Butt	M/s FAS Tube Mills & Engineering, Plot # 457-460 Sundar [Industrial Estate, Lahore	and the second second	3	5	2	0	1	-	1	6	0	6	2	5	8	-	9	-do-
3	Muhammad Ances Khawaja	Mehr Manzil, O/S Lohari Gate Multan.	Pakistani	3	6	3	0	2	- -	4	6	4	8	2	8	5	-	3	-do-
4	Syed Tariq Siraj Jafri	68-Block-B, Model Town, Lahore	Pakistani	3	5	2	0	2	-	2	5	9	5	1	7	4	-	1	-do-
5	Shahid Hussain Tarer	House # 12/13, A/2, WAPDA Town, Gujranwala.	Pakistani	3	4	1	0	1	-	9	5	3	4	6	8	9	-	9	-do-
6	Khawaja Arif Qasim	125-A, Quaid e-Azam Industrial Estate, Kot- Lakhpat, Lahore.	l- Pakistani	3	5		20	2		4	6	0	1	9	2	8		1	do Reg

7	Usman Aslam Malik	M/s Koretec Auto Industries 16- KM, Multan Road, Lahore.	Pakistani	3	5	2	0	1	-	1	5	5	5	4	0	9		-	1	-do-
8	Dr. Sumaira Rehman	Superior University, 17- KM Mian Raiwind Road, Lahore.	Pakistani	3	5	2	0	2	-	9	7	6	0	8	5	3		•	0	-do-
9	Dr. Erfa Iqbal Chief Executive	Punjab Board of Investment & Trade, 23 Aikman road GOR-1, Lahore/	Pakistani	4	2	3	0	1	÷	7	7	2	5	4	3	e	5	ţ	8	27-11-2020
10		Finance Dept. (Civil Secretariat Lahore.	Pakistani	53	5		,c)//2	2.	. 2		9		4)	2	3	P	9	30-04-2019
11	Wasif Khurshid, Secretary ICI&SD Department	ICI&SD Dept. Old P&D Building, 2 Bank Road, Lahore.	Pakistani	3	6		3 () :	2	-	9	1	7	1	7	4	Ø		9	06-11-2020
12	Dr. Ahmed Javed Qazi, Secretary Labour & Human Resource	Labour & Human Resource Dept., 2 Bank Road, Lahore.	Pakistani	3	5		2 (0	2	# 1	2	B	6	5	5	8	2	-	5	25-09-2020
13	Ali Salman Siddique Chairperson TEVTA	96-Gulberg Road, Lahore.	Pakistani	3	5		2	Ø	2	•	8	7	0	6	5	2	8		9	08-08-2019
14		Commercial Area, Sundar Industrial Estate, Lahore.	Pakistani	1	3 5	5	2	0	2		8	2	7	9	6	8	6	5		01-02-2021

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2.17 List of members and Debenture holders on the date up to which this Form is made:

Folio #	Name	Address	Nationality	No. of shares held	NIC	No	. (P	858	port	No.	if f	ore	igno	ŧr)
embers	Government of the Punjab (through Industries, Commerce, Investment & Skill Development Department).	ICI&SD Dept. Old P&D Building, 2 Bank Road, Lahore.	NIL	5,000,000										
enture h	ders	NIL	NIL	NIL										
1814 Martin				. <u>21 - 8047,</u>		<u> </u>	.			_ 				
	embers	Government of the Punjab (through Industries, commerce, investment & Skill Development	embers Government of the Punjab (through Industries, Commerce, investment & Skill Development Department).	Folio #NameAddressGovernment of the Punjab (through Industries, Commerce, investment & Skill Development Department).ICI&SD Dept. Old Building, 2 Bank Road, Lahore.	Folio #NameAddressheldGovernment of the Punjab (through Industries, Commerce, investment & Skill Development Department).ICl&SD Dept. Old Building, 2heldembersCommerce, P&D Building, 2NIL5,000,000	Folio #NameAddressheldNICGovernment of the Punjab (through Industries, Commerce, investment & Skill Development Department).ICI&SD Dept. Old Building, 2NIL5,000,000	Folio #NameAddressheldNIC NoGovernment of the Punjab (through Industries, Commerce, nvestment & Skill Development Department).ICl&SD Dept. Old Building, 2 Bank Road, Lahore.NIL5,000,000	Folio #NameAddressheldNIC No. (PGovernment of the Punjab (through Industries, Commerce, investment & Skill Development Department).ICl&SD Dept. Old Building, 2 Bank Road, Lahore.NIL5,000,000	Folio #NameAddressheldNIC No. (PassGovernment of the Punjab (through Industries, Commerce, nvestment & Skill Development Department).ICl&SD Dept. Old Building, 2 Bank Road, Lahore.NIL5,000,000	Folio # Name Address held NIC No. (Passport Government of the Punjab (through Industries, embers ICl&SD (through Industries, Commerce, investment & Skill Development Department). ICl&SD NIL 5,000,000	Folio # Name Address held NIC No. (Passport No.) Government of the Punjab (through Industries, embers ICl&SD (through Industries, Commerce, investment & Skill Development Department). ICl&SD NIL held NIC No. (Passport No.)	Folio # Name Address held NIC No. (Passport No. if f Government of the Punjab ICl&SD held NIC No. (Passport No. if f of the Punjab ICl&SD Dept. Old Dept. Old held NIL embers Commerce, P&D NIL 5,000,000 Held Held embers Commerce, P&D NIL 5,000,000 Held Held perture holders NIL NIL NIL NIL NIL NIL	Folio # Name Address held NIC No. (Passport No. if foresting) Government of the Punjab ICl&SD held NIC No. (Passport No. if foresting) of the Punjab ICl&SD Dept. Old Dept. Old held NIL embers Commerce, P&D NIL 5,000,000 held held Development Department). Lahore. Department). held held	Folio # Name Address held NIC No. (Passport No. if foreigner No. is foreigner No. if foreigner No. is

787

Use separate sheet, if necessary

188

2.18 Transfer of shares (debentures) since last Form A was made:

Šr. #	Name of Transferor	Name of Transferce	Number of shares transferred	Date of registration of transfer
	NIL	NIL.	NIL	NIL.

Use separate sheet, if necessary

PART-III

3.1

Declaration:

I do hereby solemnly; and sincerely declare that the information provided in the form is:

- i. true and correct to the best of my knowledge, in consonance with the record as maintained by the Company and nothing has been concealed; and
- ii. hereby reported after complying with and fulfilling all requirements under the relevant provisions of law, rules, regulations, directives, circuluis and notifications whichever is applicable.
- 3.2 Name of Authorized Officer with designation /Authorized Intermediary
- 3.3 Signatures

M. Shufiq ur Rehman	Acting Company Secretary
<u> </u>	

3.4 Registration No of Authorized Intermediary, if applicable

3.5

Date

1

Month

Year



Day

0 8





TECHNICAL AND FINANCIAL PROPOSAL IN REASONABLE DETAIL FOR THE OPERATION, MAINTENANCE, PLANNING & DEVELOPMENT OF THE FACILITY AT RIE



THE TYPE, TECHNOLOGY, MODEL, TECHNICAL DETAILS AND DESIGN OF THE FACILITIES FOR THE ACQUIRED, CONSTRUCTED, DEVELOPED OR INSTALLED EQUIPMENT AT RAHIM YAR KHAN INDUSTRIAL ESTATE.

The Electrical design features are briefly stated as under:

 Design The design has been prepared for whole of the system as undergroundand connection point as overheadexceptthe major fixtures/equipment such as Pad Mounted Transformers, H.V Ring main Switches, Street LightPoles and Switches.

Distribution System

The H.V system consists of HT Main Feeders, Standby / Express Feeders and LT Ring Main System to cater for the ultimate load demand of the Rahim Yar Khan Industrial Estate. The HT Feeders have been constructed to form open-end loop system to ensure continuity of supply in case of segment faults. The network has been laid down to achieve the safe operation, technical feasibilityand stability of supplyto the consumers of the Industrial Estate.

1. Power Requirement calculations

For calculation of load, load criteria and factors specified by WAPDA have been adopted. The basic load requirement was calculated by Punjab Industrial Estate Management and development Company based on the requirement of individuals as per respective applications. The details are as give below:-

a) Industrial Plots

Plot Size	No. of Plots	Per Plot Load	Total Load
0.5 Acre	4	25 KW	100 KW
1 – Acre	75	100 KW	7500 KW
2 – Acre	120	300 KW	36000KW

Expected Load for new upcoming Plots3000 KWPIE Self4000 KWTotal50600 KW Say 50 MW

(Street Light, Water Tank, Sewerage Pump, Mosque, Rescue -1122, Accommodation,

Office and PIE Office and Check Post, R.O Water Treatment Plant, PIEDMC Store).



b) Commercial & Community Facilities and Public Buildings

14 Watt per Sq ft. for 60% of the plot area.

c) Applicable Design Factors.

Diversity Factor	80%
Development Factor	90%
Power Factor	85 %
Transformer Loading	80%

TOTAL LOAD FOR 199 PLOTS: 50 MW

Apply Development Factor@90% Apply Diversity Factor@80% Apply Power Factor@85%

2. Equipment Ratings

The material and equipment for System had been proposed with standard available sizes and ratings. WAPDA specifications have been adopted for the procured equipment and material. Major Electrical material and other components with rating/sizes have been provided keeping in view the ultimate load requirements and are given as below:

3. H.T DISTRIBUTION SYSTEM

I. 1/C 500 mm² Al- XLPE/PVC/AWA 15KV

II. 3/C 120 mm² Al- XLPE/PVC/AWA 15KV

III. ACSR Bear Conductor on 36,40 ft poles

4. L.T DISTRIBUTION SYSTEM

4X1 Core AL-XLPE/AWA 240mm2 Cable, 1-core 16mm2 Al-XLPE,AWA Voltage rating upto 1000V- Operating Voltages 415/220V, and ACSR WOLF and Gopher Conductor 415V regulation + 2.5%,-5%,-7.5%.

5. POWER SUPPLY SOURCES

For perspective industries, RIE Grid Station is established with the capacity of 32 MW in the area having capacity 1 X 40 MVA Power Transformer. The Grid Station is feed through a Double Circuit 132 KV Line arrangement (in from Rahim Yar Khan Grid station and out to Sadiqabad Grid Station). PIEDMC has 50 MW approved load from MEPCO for this Grid Station.



SUBJECT: AVAILABILITY, SOURCES, RATES AND EVIDENCE OF COMMITMENTS WITH THE APPLICANTS FROM THE SOURCES OF ELECTRIC POWER

1. AVAILABILITY

a. PIE has its own 132KV Grid Station at Rahim Yar Khan Industrial Estate with the approved load of 50MW.

2. SOURCE

a. From 132KV Grid Station Sadiqabad, MEPCO to 132KV Grid Station Rahim yar Khan Industrial Estate.

3. RATES

- a. The security deposits for different class of Industrial connections are same as applicable in MEPCO.
- b. All Tariff rates are the same as applicable in MEPCO for i.e. B-1, B-2, B-3, A-2 etc.
- c. The minimum charges required for certain class of connection are same as of MEPCO.
- d. The equipment costs, however, vary because the two systems are entirely different innature, as the MEPCO distribution system is an open-air/overhead system. Where the transformer and conductor are installed on the towers/poles. Whereas PIE's distribution system is an-underground and overhead system. Where the cables are embedded under the ground and the transformers are totally enclosed PMT (Pad Mounted Transformer) At RIE, to eliminate the electricity outages/tripping and increase the system stability. Every feeder is configured in ring main system, controlled by the ring main unit (RMU). Every transformer at RIE is connected to two (02) sources, in case of fall we can restored consumer supply from alternate source.
- e. MEPCO provide independent transformers to its industrial customers whereas PIE facilitates its customers by sharing the transformer according to customer's requirement. Hence in case of transformer damage, MEPCO replaces the transformer on customer's expense and PIE charges the amount according to the connected transformer size, still no case of transformer damage is reported at RIE.













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RAHIM YAR KHAN INDUSTRIAL ESTATE FINANCIAL HIGHLIGHTS



BIFERCATION OF AREA AND AVAILAL TY OF PLOTS - UPTO JUNE, 2022

Rahimyar Khan Industrial Estate

	Plots Detai	l (Industrial)	
Size	Total	Sold	Available
0.5 Acres	6	6	0
1 Acres	77	65	12
2 Acres or Above	118	81	37
Total	201	152	49

	Area Detail (Exclusive	of Commercial Are	ea)
Total Area	Total Saleable Area	Area Sold	Available Area
456 Acres	314.86	239.31	87.45



INFORMATION RELATING TO SALE OF LOTS - UPTO JUNE, 2022

Sr. No.	Rate per Acre	Acres Sold	Total Price	Payment Received	Balance Receivable	Refund Payable
1	Rs. 5 million (10 % additional for Corner or main boulevard)	48.64	263,626,250	263,759,427		(133,177)
2	Rs. 6 million (10 % additional for Corner or main boulevard)	2.00	12,235,300	12,235,300	-	-
3	Rs. 6.5 million (10 % additional for Corner or main boulevard)	19.62	132,226,850	132,389,045	-	(162,195)
4	Rs. 7.5 million (10 % additional for Corner or main boulevard)	6.58	49,946,300	49,958,090		(11,790)
5	Rs. 8.5 million (10 % additional for Corner or main boulevard)	78.25	681,164,900	680,819,853	370,893	(25,846)
6	Rs. 9.5 million (10 % additional for Corner or main boulevard)	24.14	235,132,900	164,887,036	70,245,864	-
7	Rs. 10.5 million (10 % additional for Corner or main boulevard)	19.76	211,362,550	115,977,000	95,385,550	-
8	Rs. 11.5 million (10 % additional for Corner or main boulevard)	10.64	125,914,800	74,499,150	51,415,650	-
9	Rs. 12.5 million (10 % additional for Corner or main boulevard)	17.66	212,950,300	205,950,300	7,000,000	-
10	Rs. 14 million (10 % additional for Corner or main boulevard)	10.01	135,521,300	94,921,300	40,600,000	-
11	Rs. 16 million (10 % additional for Corner or main boulevard)	2.01	30,524,300	30,524,300	-	
	TOTAL	239.31	2,090,605,750	1,825,920,801	265,017,957	(333,008)



FIVE (05) YEARS PROJECTED REVEND

Acres to be	Rate	Total			202	2-23			2023	-24	
Acres to be sold a 8 20 15	per acre	Revenue	Terms of Payment	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4
8	16	128		38.40	14.94	14.94	14.94	14.94	14.94	14.94	-
20	18	360	30% advance and	-	54.00	75.01	42.01	42.01	42.01	42.01	42.01
15	21	315	remaining in 6 installments of 4	-	-	-	44.10	67.55	36.76	36.76	36.76
15	24	360	months each	-	-		-	14.40	77.60	55.21	42.01
29.45	20	589		_	-	-	-	-	-	42.00	76.34
				38.40	68.94	89.94	101.05	138.90	171.31	190.92	197.12
87.45		1,752	Sub Total	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u></u>	298.33				698.26

Total Inflow		5-27	202		2024-25 2025-26						2024-25							
Total Inflow	Q-4	Q-3	Q-2	Q-1	Q-4	Q-3	Q-2	Q-1	Q-4	Q-3	Q-2	Q-1						
128.03	-	-	-	-	-	-	-	-	-	-	-	-						
360.07	-	-	-	-	-	-	-	-	-	-	-	21.01						
315.06	-	-	-	*	-	-	-	-	-	19.61	36.76	36.76						
360.07	-	-	-	-	-	-	-	8.40	36.41	42.01	42.01	42.01						
589.12	_	-	-	-	-	29.06	52.40	68.74	68.74	68.74	68.74	114.38						
1 753 25	-	-	-	-	-	29.06	52.40	77.14	105.15	130.35	147.51	214.16						
- 1,752.35	*				158.60				597.17									





FIVE (05) YEARS PROJECTED REVENUE PLAN – COMMERCIAL

Acres to be	Rate per	Total Revenue	Terms of Payment		202	22-23		2023-24					
sold	acre		remis of Fayment	Q-1	Q-2	Q-3	Q-4	Q-1	Q-2	Q-3	Q-4		
6.00	48		30% advance and remainig in 4	-	-	-	-	-	~	~	86.40		
6	96		installments 3 months each	~	-	-	-	~	· _	-			
11.9		854	Sub Total	-		-	-			-	86.40		
		4UU					-				86.40		

	2026-27		2025-26			2024-25						
- Total Inflow	Q-4	Q-3	Q-2	Q-1	Q-4	Q-3	Q-2	Q-1	Q-4	Q-3	Q-2	Q-1
288.00	-	-	-	-	-		-	-	50.40	50.40	50.40	50.40
566.40		-	-	99.12	99.12	99.12	99.12	169.92	-	-	-	-
	-	-		99.12	99.12	99.12	99.12	169.92	50.40	50.40	50.40	50.40
854.40	99.12			1	467.28				201.60			



.

QUARTER WISE PROJECTED RECEIV

Project	Q1 2022-23	Q2 2022-23	Q3 2022-23	Q4 2022-23	Q1 2023-24	Q2 2023-24	Q3 2023-24	Q4 2023-24	Total Projected Inflow
								Rs. in M	lillions (approx.)
Rahim Yar Khan Industrial Estate	11.88	19.01	23.76	28.51	33.27	38.02	42.77	40.40	237.62

QUARTER WISE PROJECTED RECOVERY PLAN – OVERDUE RECEIVABLES

Project	Recovery - Q1 2022-23	Recovery - Q2 2022-23	Recovery - Q3 2022-23	Recovery - Q4 2022-23	TOTAL Inflow
				Rs. in Millions	(approx.)
Rahim Yar Khan Industrial Estate	6.77	5.41	9.47	5.41	27.06



RAHIM YAR KHAN INDUSTRIAL ESTAP

Development Components	Total Cost Of Components (M)	Actual Cost Incurred upto June 2022 (M)	Cost to be Incurred (M)		Cost to be Incurred Year wise (M)			Total Committed cost as on June 2022 (M)
		(ivi)		Fy 2022-23	Fy 2023-24	Fy 2024-25	Fy 2025-26	
INTERNAL ROADS	1128	862.27	265.733	160.0	105.7			862.27
WATER SUPPLY NETWORK	297	212.39	84.610	16.9	25.0	42.7		212.39
SEWERAGE SYSTEM	400	100.18	299.820	100.0	199.8			100.18
STORM WATER DRAINAGE	217	128.06	88.944	53.0	35.9			128.06
BUILDING/REHABLITATION OF BOUNDARY WALL ETC	46	24.61	21.386	12.8	8.6			24.61
ELECTRICAL INFRASTRUCTURE	663	564.25	98.751	98.8				564.25
CAPITAL COST FOR 11KV FEEDER CONNECTION FROM MEPCO + T/F +T&P	102	101.55	-0.016					101.55
SECURITY OF 11KV ELECTRICAL CONNECTION FROM MEPCO	19	18.47	0.032	0.0				18.47
CONSTRUCTION OF 132KV GRID STATION WITH CONSULTANCY AND RESIDENT SUPERVISION	300	255.56	44.442	44.4				255.56
182KV TRANSMISSION LINE	73	73.00	0.000					73.00
2ND BAY 132KV GRID STATION	300	0.00	300.000		300.0			0.00
ELECTRIFICATION OF COMMERCIAL AREA	150	0.00	150.000		150.0			0.00
EXTERNAL SUI GAS NETWORK	0	0.00	0.000					0.00
INTERNAL SUI GAS NETWORK	0	0.00	0.000					0.00
AMENITIES	225	0.00	225.000		200.0	25.0		0.00
APPROACH ROAD, GATE OFFCIE AND BOUNDARY WALL	76	76.44	0.004	0.0				76.44
CONSULTANCY	56	29.87	26.125	20.9	5.2			29.87
ADMINISTRATIVE EXPENSES	225	166.41	58.590	14.6	14.6	14.6	14.6	166.41
MARKETING	43	29.25	13.748	5.0	8.7			29.25
HORTICULTURE	30	1.59	28.413	7.1	7.1	7.1	7.1	1.59
LAND COST	239	239.00	0.000					239.00
25 ACRES ADDITIONAL LAND	75	0.00	75.000	50.0	25.0			0.00
COMBINED EFFLUENT TREATMENT PLANT (CETP)	1500	0.00	1500.000			750.0	750.0	0.00
MISC. / CONTIGENCIES / ESCALATION	500	0.00	500.000	250.0	100.0	100.0	50.0	0.00
TOTAL COST (1 to 25)	6663	2883	3781	834	1186	939	822	2883

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CONSUMER CLASS/CATEGORY ON THE BASIS OF SANCTIONED LOAD AND VOLTAGE LEVEL.

Connection Category of Consumer	Voltage	Load	Type of Connection	No. of Consumers.	**
Category 1	230/400V	Upto 50KW	Temporary	88	
	230/400V	Up to 25 kW		50	
Category 2	400V	Above 25 kW but not exceeding 500 kW	Permanent	78	
	11KV	Above 500 kW but not exceeding 5000 kW		10	



TARIFF CATEGORIES OF CONSUMER CLASSES TO BE SERVED.

Connection Category	Type of Connection	Tariff Category	Load	No. of Consumers.
of	Connection	Category		Consumers.
Consumer				
Category 1	Temporary	E-2	Upto 50KW	88
		B-1	Up to 25 kW	50
Category 2		B-2	Above 25 kW but not exceeding 500 kW	78
	Permanent	B-3	Above 500 kW but not exceeding 5000 kW	10



DEMAND AND CONSUMPTION PATTERN ON DIFFERENT TIME PERIODS:-

Mostly, the industries work on 24 hours basis on 3 shifts (8 hours shift each). The Peak load is expected in between 9am to 2pm from Monday to Friday.





PROCUREMENT PLAN FOR MEETING EXPECTED LOADS (INCLUDING OWN GENERATION AND/OR LONG TERM AND SHORT TERM PPAs):-

Procurement of power from IPPs is being considered as a second/cheapest source for the Industrialist Estate through direct connection/wheeling as a long term and short term solution of energy shortfall as well.

Pakistan is currently passing from one of its worst energy crisis. It is very difficult to supply continuous electricity to Industrial Estates, to Increase the industrialization and make the availability of 24hrs electricity. There is a need to add more power in PIEDMC all projects. PIEDMC is aggressively pursuing for adding new power generation capacity for all its projects throughout Punjab province by any PPPs in the affordable cost through wheeling arrangement of NTDCL/ DISCOs. The contract of Power Purchase with PPP's will be regulated as per NEPRA rules and regulations.


<u>12-MONTH PROJECTION ON EXPECTED LOAD, NO. OF CONSUMERS AND</u> EXPECTED SALE OF UNITS FOR EACH CONSUMER CATEGORY.

- - -

Month	No. of Consumers	Expected MDI in Kilo-Watt	Expected Unit Consumption.
June-2022	12	6340	3761940
July-2022	15	7608	4138134
August-2022	20	9130	4551947
September-2022	25	10956	5007142
October-2022	30	13147	5507856
November-2022	35	15776	6058642
December-2022	40	18931	6664506
January-2023	45	22717	7330957
February-2023	50	27261	8064052
March-2023	55	32713	8870458
April-2023	60	39256	9757504
May-2023	65	47107	10733254



Training and Development Procedures

Introduction

In order to keep PIEDMC Electrical staff fully updated with the electrification in Industrial Estates, PIEDMC has established a Training and Development Manual.

Training is provided to employees of Customer Services and the Electrical department.

Training at regular intervals is arranged by Chief Engineer for the Technical Staff where new and efficient maintenance and fault locating methods are being explained for implementation.

The Employees from customer relations are also updated at regular intervals of any change in customer policy and change of Tariff etc.

All the operations and maintenance (O&M) staff of Vehari Industrial Estate (VIE) are trained as per the training manuals of Lahore Electric Supply Company (LESCO). The staff is trained to provide high quality services and are trained in the following areas:

- Introduction to Training Programmed Organization and System
- Overview of role and duties of line superintendent
- Material of use in construction line
- Use and care of T & P
- Service installation (LT)
- Patrolling of lines
- First aid skills and practices
- Basic electricity concepts, testing/measuring instruments and their uses
- Distribution system standards and specifications
- Distribution system planning
- Installation of earth system



- Distribution system operation
- Distribution system maintenance
- Location of faults & consumer complaints
- Safety & safety equipment
- Fire prevention and control
- Distribution system mapping
- Energy meters Installation, checking & maintenance



PROPOSED SERVICE TERRITORY

Service territory is Rahim Yar Khan Industrial Estate for which 456 Acres land has been acquired and right of way has been procured. NEPRA has been approached by PIEDMC for issuance of distribution license/NOC in favor of Rahim Yar Khan Industrial Estate.

The area consists of the saleable plots of ½ Acre, 1 Acre, 2 Acre plots for industrialists units and 5 Marla plots for commercial purpose. Moreover, proper road network, amenities and other utilities are available in the Rahim Yar Khan Industrial Estate for ease of business for the industrialists. Moreover, PIEDMC has constructed its own 132KV Grid Station having load of 50MW for the smooth and reliable power supply to the land owners inside the estate.

EMERGENCY PROVISIONS AND PROTOCOL

To cater for any emergency situation, express/ back up feeders have been provided. Sufficient line material and spares parts have been procured by PIEDMC and are readily available at site store Rahim Yar Khan Industrial Estate to meet with any emergency situation which arrive at any time of the day.

A well trained, competent and educated distribution/O&M staff has been hired by PIEDMC, who are working under well-qualified supervisors in three (3) shifts. The staff is available on 24/7 basis to attend any emergency situation and for preventive maintenance of the system as well.



1. <u>SAFETY, HEALTH, AND ENVIRONMENT (SHE)</u> FOR ELECTRICAL O & M <u>WORKS</u>

Areas to be addressed while making Electricity O & M SHE Manual:

- Study the nature of complaint/Fault/Work to do the job safety analysis.
- Planning & Preparation for SHE according to the nature of complaint/Fault/Work.
- Selection of Tools & protective gears according to complaint/Fault/Work.
- Preparation of Skilled workers with selected Protective gears.
- Evaluate the environment of work place under complaint/Fault/Work.
- Comply the work place ethics.
- Firefighting procedure & Standards compliant shall assure before execution of any complaint/Fault/Work plan.
- Identify the area /equipment under complaint/Fault/Work.
- Comply the Procedure to get PTW (Permit to work).
- Cordon off the area under complaint/Fault/Work.
- Isolate the live part/Area from the effected or under work area /equipment as per nature of complaint/Fault/Work.
- Earth the equipment /system under fault with earth set on both sides of equipment in case of fault to avoid any electric shock.
- Use the calibrated Measuring Instruments to ensure the isolation of equipment under complaint/Fault/Work i.e. HT/LT Tester etc.
- Tag in /Tag Out the switching on Operational Board by the despatcher and on equipment by the Engineer /Supervisor to avoid any operational mishap.
- Maintenance /Installation/Repairing shall be done as per Equipment Manual.
- After execution of plan for complaint/Fault/Work, system shall be restored as per original design to avoid any operational hazards.
- Check the design parameters of system to ensure the quality of work executed for complaint/Fault/Work.
- Keep the work place clean after handling complaint/Fault/Work.
- Cancelation of PTW (Permit to work) as per procedure.
- Technical input after carrying the job shall be part of report, drawing, data and operational board if required to avoid electrical operational hazards.
- Ensure the availability of First Aid medicine, Gadgets & Gears kit as per site requirement.
- Emergency Management Services shall be on board 24/7/365.
- Work at height through Ladder and scaffoldings technical training and developments to ensure safety.
- SHE Compliance report Weekly /Fortnightly/Monthly.
- SHE audit.
- SHE compliance surprise visit by the SHE manager on work place to ensure the compliance.
- Calibration of safety gadgets with due course of time to ensure health of equipment.
- Ensuring the safety, fire prevention, Firefighting, fire management and accident



management drills.

- T & D for learning about electrical hazards.
- SHE Risks evaluation and mitigation through effective risk management.
- Placement of SHE signs and precautions.
- Providing Hygiene environment management system.
- SHE compliance Award and Allowances.
- SHE Awareness and orientation workshops.
- Technological changes acceptance attitude development for effective compliance of SHE.
- Ensure the usage and safe handling of personal protective equipment (PPEs) during electrical works.
- Proper Implementation of Traffic management plan (e.g.; Give way to emergency vehicles, such as fire tenders, Rescue vehicles Ambulances etc.).
- Comprehensive Emergency preparedness and response plan.
- Waste disposable mechanism for combustible and non-combustible materials.
- Accident /Emergency report format for record keeping.
- Develop Key performance indicators (KPIs) for effective implementation of SHE manual.
- Any other point to be incorporated for effective compliance of SHE.

2. SAFETY ADVISORY

SUMMER / MONSOON SAFETY ADVISORY

WORKING OUTDOORS:

- Make sure your safety gear is in a serviceable/usable condition, use PPE.
- Keep a small towel/ piece of cloth and wipe your tools dry before you use them.
- Use Gum boots and check that the soles have proper tread which avoids slipping.
- Ensure use of safety belt while working at heights.
- Keep away from trees, tall objects, metal objects and water during a thunderstorm.
- Look out for open manholes if you have to wade through standing water, use a stick to feel the ground in front.
- Move cautiously because rain causes slick surfaces, work more slowly particularly when climbing ladders
- Make sure you can be seen. Wear high-visibility clothing, especially in areas with vehicle traffic and heavy machinery.
- Stay clear of areas where there is a lot of debris or downed trees. It could conceal an energized power line.
- Stay clear of chain link fences that may be energized if touching a downed line.
- Stay away from any water that may have downed wires in or near the area.



TIPS FOR WORKING IN COLD WEATHER:

- Dress in layers so you can adjust for colder conditions but avoid sweating. Cover the head &wear gloves.
- Wear face protection to avoid skin exposure, depending on how cold it is, use sunglasses if it is sunny.
- Cover mouth & nose in extreme cold so that the air you breathe is not immediately cold to your lungs.
- Apply ointments/lotion/oil to keep the skin protected from dryness.

EARTHQUAKE ADVISORY

Actions required to be taken during an earthquake.

During the Earthquake:

- If you are indoors, stay there. Quickly move to a safe location in the room such as under a strong desk, a strong table, or along an interior wall. The goal is to protect yourself from falling objects and be located near the structural strong points of the room. Avoid taking cover near windows, large mirrors, hanging objects, heavy furniture, heavy appliances or fireplaces.
- If you are cooking, turn off the stove and take cover.
- If you are outdoors, move to an open area where falling objects are unlikely to strike you. Move away from buildings, power lines and trees.
- If you are driving, slow down smoothly and stop on the side of the road. Avoid stopping on or under bridges and overpasses, or under power lines, trees and large signs. Stay in your car.

After the Earthquake:

- Check for injuries, attend to injuries if needed, help ensure the safety of people around you.
- Check for damage. If your building is badly damaged you should leave it until it has been inspected by a qualified professional.
- If you smell or hear a gas leak, get everyone outside and open windows and doors. If you can do it safely, turn off the gas at the meter. Report the leak to the gas company and fire department. Do not use any electrical appliances because a tiny spark could ignite the gas.
- If the power is out, unplug major appliances to prevent possible damage when the power is turned back on. If you see sparks, frayed wires, or smell hot insulation turn off electricity at the main fuse box or breaker. If you will have to step in water to turn off the electricity you should call a professional to turn it off for you.



What you need to do during and after the rains/storm:

- Stay abreast with the news and advisories
- Avoid moving out on the streets until the storm passes
- Park your vehicles in location to prevent from damage due to falling items (trees, billboards, etc.)
- Stay away from accumulated water around electrical installations.
- Don't attempt to repair electrical system or pull wet tree limbs off electric lines.
- Don't touch wet electrical switches. Particularly outdoor switches must be touched using non-conductor material.
- Do not lock motorcycles or bicycles with electric poles.
- Do not touch or fiddle with any falling electric wires.



3. SAFETY LEAFLETS

LIFE IS PRECIOUS - BE CAREFUL

SAFETY FIRST!

We'd better not take electricity for granted. Relying on the benefits, we, unfortunately, tend to forget the hazards. Remember that an electric shock can be fatal. It consome has received an electric shock, there is a chance they may still be in contect with the source of the electricity. Do not touch the person or anything he or she is touching. You can become part of the electricity's path and be shocked or even killed!

ELECTRICAL SAFETY TIPS

- Appliances at home should be turned off during a power failure
- Downed power lines are not sate to touch or be near to, whether they are on the ground or caught or fallen on treas.
- Never open the refrigerator or deep treezer if your feet are damp or bare.
- Keep all electrical appliances and cords, such as radies and televisions, away from water.
- Never try to put out an electrical fire with water, instead use a fire entrigulation p. baking code.
- Always unplug alectrical appliances before you clean men
- I is comething gets stuck in the toaster, or oven, first unplug it, wait for it to cool down and then clean it out carefully.
- 3 Do not nun electrical conta underneath nues, carpete or furniture: Walking on conta dan useall wring or insulation and cause a first or an electric struct.
- Look for the DANGER signs on all high votage equipment. Stay, away from substations, transformets and the tended that substational them. If you come across a downed power line, contact KE Response Centre 116 or your nearest complaint centre. Do not south or go near the power line.
- I if a wire fails into a puddle of water, first unplug it from the socket before retrieving it.
- Do not approach any broken electrical wires. Instead, contact 118 right away.
- Do not use a Kunda of illegal hook connection under any circumstances.

-] Never fly intes of model airplanes near power lines and never use wire or metal with kites.
- Do not use electrical appliances such as hair dryers or curring irons near the bathtub or sink. If the appliance, of just the cord, falls into the water, unplug it; never try to grab it.
- 1 Tob many puge in a single multi-socket or extension wire can spall trouble. Make sure that your radio, video games, TV and computer are not all plugged into the same outlet. This can start a fire.

MONBOON BAFETY TIPS

- Nevertouch env electrical poles during or after a rain.
- Contrationary electrical appliances if your hands are we not tryppenating them in the tain.
- 1 Keep your generator dry and do not use it in the rain or wall conditions. Operate it on a dry surface under a camppy-line structure. Make sure your hands are dry before touching the generator and use a rubber mat.
- I there is sentring, avoid staying outdoors. Do not touch any main adjects and do not take shelter under trees.
- Claring the very season, be careful when using the water surfly
- 1 Do not fouch the electricity metre or main switchboard unless absolutely necessary, and even than be careful.
- I your hands are wet after being in the rain, then do not ing the house bell without drying them
- Never Allow your children to play in pools of rain water.





To give an allen registeling broken witten, or any other electricity hazard, click the given epitocitic barot evaluatie for our weblie whe ke dam pix and fill out the sole ego.







dangerous during rain.









4. <u>NEPRA GUIDELINES FOR POWER SAFETY CODE FOR</u> <u>TRANSMISSION & DISTRIBUTION LICENSEES</u> (First Edition November, 2014)

PSC-6

Detailed Instructions of Power Safety to be considered while preparing the Power Safety Manual

PSC-6.1 Purpose, Scope & Philosophy of Safety Policy

Each licensee shall elaborate the purpose & scope of overall safety policy, vision of the licensee about safety, fundamentals of the power safety and the issuance of power safety manual to all concerns.

Duties & responsibilities of safety team/safety directorate & others regarding training, record, implementation, auditing and preventive action shall be clearly defined by each Licensee. The Licensee shall provide such records to NEPRA as and when required.

PSC-6.2 Basic Safety Guidelines

The licensee shall provide the basic safety guidelines primarily for persons who have not been appointed as competent persons under power safety code or persons who work beyond their scope of competence.

The basic safety guidelines shall comprise but not limited to the following:

- General Principals
- Operations
- Fire Precautions & work in confined space
- Work in Substations & Compounds

The general basic principles of safety shall also be observed i.e.:

- Identification of Hazards
- Elimination of Hazards
- Controlling of Hazards
- Protection against injuries
- Minimizing the severity of injury
- Avoiding for future occurrences



Unsafe conditions or unsafe acts shall be clearly defined, as the good operation is only the safe operation.

Examples of un-safe conditions be clarified i.e.:

- Improper Guarding
- Defective material or equipment
- Hazardous arrangements/Insufficient lighting
- Improper ventilation
- Unsafe Clothing
- Unsafe Design & Construction

Examples of Un-Acts be clarified i.e:-

- Operating without Authority or Warning
- Operating or Working at unsafe Speed
- Making safety devices In-operative
- Use of unsafe equipment or improper use of equipment
- Unsafe Loading
- Placing or Leaving Objects
- Mixing improper Packing
- Taking unsafe Position or Posture
- Working on equipment without taking proper precautions
- Distracting, Teasing or Startling
- Failure to use safe clothing or protective equipment

From operation point of view, other factors be also considered

i.e.:

- Shift Duties
- Reporting of duty in unfit condition
- Assistance from employees not on duty



- Inspection of Grid Station Equipment
- Weather information
- Interference of animals
- Visitors
- Working of employees of other organizations
- Identification of operating equipment



PSC-6.3 General Provisions for Safety

The general provisions of safety shall be provided by each licensee covering the followings:

- The provisions for workers /operators to object to doing work on safety grounds.
- The use & wearing of safety equipment & protective clothing.
- Physical fitness & personal conduct of the worker before and during on job
- Arrangement and procedure of job briefing before the work is started
- Requirements to safe guard the public and property when work in progress
- Requirements for housekeeping in a safe working in conditions
- Arrangements and requirements of Fire protection
- Requirements, arrangements and use of proper tools and plants for the proper and safe storage lifting and carrying of different types of material
- Procedure and reporting requirements of patrolling of lines
- Procedure for tree trimming
- List of common protective devices and equipment use for the safety purpose.

PSC-6.4 Safety Policy for Electrical Equipment & Materials from Design & Execution Point Of view

Each Licensee shall establish the design section, which shall be responsible for complete detailed engineering design and execution of electrical equipment and materials from power safety point of view. All design aspects/design criteria shall be provided to NEPRA as & when required and complete record shall be maintained by each Licensee.

Detail regarding improvement in existing electrical protective equipment shall be clearly provided i.e.:

- Protective measures as per IEC or international engineering standards in 11KV Panels in order to diagnose the fault in case the live conductor falls on rocks or any dry surface and in result may cause damage to people or property.
- Protection of Transformers
- Protection of 11KV lines with protective devices
- Protection of cables against fires, as in some instances cable may become a carrier of fire.



PSC-6.5 Safety Measures from Operation & Maintenance Point of View

Safety measures for operation & maintenance shall cover but not limited to the following:

• General Safety Requirements

- Access to and work in operational premises, underground chambers & confined spaces
- Working with vessels that contain oil or flammable liquids.
- Access to & work in fire protected areas.
- Climbing of Poles, towers & structures
- Access to high voltage apparatus and structures
- Arrangements for high voltage switching operations
- The use of voltage testing devices
- The procedure to follow when excavating near live cables.
- The use of mobile plant and equipment near overhead lines.
- Safety Precautions for work on or near High Voltage Systems
- This section includes the all-precautionary measures and procedures to be followed while working on or near any high voltage system;
- The general safety principles to follow to ensure safe working.
- The arrangements for insuring safe isolation if apparatus and conductors
- The methods to be used to discharge and earth high voltage equipment
- The procedure to follow when approaching live high voltage conductor and insulators supporting them.
- The procedure to follow for work in substation and switching substations containing exposed live high voltage conductors
- Permits to Work
- Sanctions for Tests
- Limitations of Access

For Permit to work (PTW), specimen shall be provided by each DISCO/NTDC in the safety manual covering the following but not limited to the following:

- Application of PTW
- Issuance of PTW



- Receipt of PTW
- Clearance of PTW
- Cancellation of PTW

For sanction of test & the limited work certificate the following points most be considered:

- Preparation
- Issues and receipt
- Transfer
- Clearness and cancellation

Requirement: Each Licensee shall provide the PTWs with the minimum details as mentioned above.

C: Procedures for work on particular items of plant, Apparatus or Conductors

Each licensee shall cover operations which require procedures to be followed which are additional to the general ones.

- General safety precautions to be taken for use of cleaning solvents, Handling of toxic or hazardous materials, Glass fiber thermal insulation, Explosives, radio actives and radiations, High voltage testing, leak checking, pressure vessels/cylinders, underground man-holes.
- Procedures for safe working of remotely and automatically control equipment shall be established by each DISCO/NTDC after consultation with NPCC or RCC which ever case is applicable & shall be provided in power safety manual.
- With-drawable apparatus
- Bus-bars, bus-bar spouts and bus-bar connections of multiple panel /switchboards
- High voltage apparatus and plant operated by or containing compressed air with other gases or operated by hydraulic power
- Transformers
- High voltage static capacitors
- High voltage cables



The type & classification of cables along with voltage rating shall be clearly defined by each DISCO/NTDC

- High voltage overhead lines
- single or multiple circuit, high voltage overhead lines, with all conductors' dead
- Double circuit, high voltage overhead line, with one circuit live
- High voltage regulator
- Industrial panels/grid end panels as per prevailing voltage levels
- DC station batteries
- Disconnect switches/isolators
- Instrument transformer (CTs, PTs, and CVTs)
- Insulting oils, oil tanks, SF6 gas and gas cylinders,
- D: Safety Precautions for High Voltage Live Line work on High Voltage Over Head lines It shall include:
- The authorization requirements for staff carrying out the operations
- The live line tools and equipment to be used and the arrangements for keeping them in good condition must be clearly defined such that:
- Complete package of T & P (hand tools and machine tools), extension ladder fiber, adjustable strain pole, conducive shoes, conductive sit (Socks, gloves, trousers, shirt etc.), torsion, nut, torsion ratchet wrench, strain link stick, hotend suspension yoke, cotter key pusher, strain pole carrier, moisture eater, abrasive cleaning pad, hot-stick tester, hit-test insulator tester, generator 5 KW, live-line rope etc.
- The general safety precaution to follow
- E: Safety Precautions for the Testing of High Voltage Systems

This shall consist of the followings:

- General precautions to take
- Work under a sanction for test
- The testing of high voltage apparatus
- F: Safety Precautions and procedures applicable to Low Voltage Systems
- General requirements for work on dead low voltage apparatus and lines
- Additions precautions for work on dead low voltage cables



- Additional precautions for work on dead low voltage overhead lines
- Precaution for work on live low voltage apparatus
- Precaution for work on live low voltage overhead lines
- Precaution for work on live low voltage cables
- Testing of low voltage apparatus
- Calibration of electrical testing equipment.

PSC-6.6 Safety for Power Plants

Each licensee shall cover the specific safety requirement for the power plant working environment and shall include but not limited to the followings;

- Boiler operation
- Boiler maintenance
- Turbo generator operation & maintenance
- Import plant auxiliaries
- Water plant treatment
- Workshop of the power plant
- SOPs in case of spillage in the plant & in case of fire accident.
- Work permits electrical maintenance section
- Works permit for maintenance section
- Works permit for instrument/control section

PSC-6.7 Safety Policy for Transportation

Each licensee shall cover the all procedures related to

- General Instructions
- SOPs for checking/maintenance
- Driving
- Parking
- Operation of trucks, trailers & forklift trucks
- SOPs, to be followed in case of accident.
- Speed limits inside the premises of NTDC/DISCO works/sites & on general



public roads/areas.

- Training of drivers
- Motivational methodologies for drivers.

PSC-6.8 First Aid Procedures

First aid procedures shall cover the procedures, guidelines, implementation strategies and complete data base & suggested measures for preventive action and shall include but not limited to the followings:

- General instructions
- Hemorrhage (bleeding) and including the measures for internal hemorrhage, nose bleeding
- Physical/electric shock
- And also the informative charts describing the effects with respect to current level, human body resistance and the other factors that affect the human body
- Sun stroke, head stroke
- Fainting
- Fractures (broken bones)
- Transportation/shifting of the victims
- Wounds
- Splinters or foreign substances in the body
- Animal/snake bites
- Burns (thermal, electrical & chemical)
- Eye injuries
- Sprains/strains,
- Bruises
- Frost bite
- Heimlich maneuvers



PSC-6.9 Resuscitation & Rescue Procedures

Resuscitation & rescue procedures shall include but not limited to the followings:

- General instructions
- Methods of pole top rescue
- Artificial respiration

Requirement: These shall be defined by each Licensee with detailed procedures and understandable diagrams/pictures and methodology for training of person to perform such activity.

PSC-6.10 Data Base of Power Safety and Operation and Maintenance Charts

Each licensee shall cover the complete information regarding operation and maintenance charts and these shall be readily accessible to all concerned. There shall be no confusion from tagging/marking point of view for electrical equipment & materials.

In addition to this other charts i.e.

- Charts related to clearances form electrical equipment & material functioning point of view
- Safety signs/signals charts at required locations/places
- Exit signs
- Charts for safety instructions for visitors/contractors/others
- Charts for useful knots
- Charts for strengths & weight of material
- Charts for safe loads on different types of ropes
- Charts for safe working of cranes
- Operation and maintenance charts
- Fire extinguishers
- Road signs
- Warning signs
- Danger signs
- Charts for allowable factor of safety, clearances & other applicable data.



- Permit to works (PTWs)
- Charts for motivation of staff /persons
- Maintenance & inspection schedules
- Charts for conversion tables and
- others required as per standard engineering practices

These charts shall be understandable to workers/labor in Urdu also, in addition to English



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	Office of the GM (BD)	
Ph: 061-9220186	Chief Executive Officer GM (Technical)	
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The Chief Engineer (P&E), MEPCO Limited Multan.

Subject: SCO#059129 DATED 02.07.2021 FOR ENERGIZATION OF 132KV GRID STATION OF PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY LAHORE (R.Y. KHAN INDUSTRIAL ESTATE) UNDER TARIFF B-4 SITUATED AT RAHIM YAR KHAN INDUSTRIAL ESTATE.

Ref: Your office Letter No. 6324-42 dated 02.07.2021

Enclosed please find herewith the subjected service connection order in original after having following implementation for information and further necessary action:-

- 1. Original Implementation SCO.
- 2. Signature of consumer on implemented SCO.
- 3. New Account Number.

ommittee

The PIEDMC Grid Station was energized on 05.07.2021 by committee constituted vide your office No. 6306-23 dt: 02.07.2021. Energization report is enclosed herewith for record.

It is further added that case for allotment of Grid Code and Feeder Code has already been sent to Commercial Directorate by XEN (SS&T) R.Y.Khan vide letter No.1993-2000 dt: 15.07.2021 & 2004-2012 dt: 26.07.2021 which is under process.

DA/ · 01. Original SCO. 02. Emergization Report. hadina ming Wing Chief Engineer (O&M) T&G Jac 1408 **MEPCO Ltd, Multan** :02 CC to:-1. General Manager (Op) MEPCO Multan. 2. General Manager (Technical) MEPCO Multan. 3. General Manager (CS) MEPCO Multan. 4. Chief Engineer (Dev) PMU, MEPCO Multan. 5. SE (GSO) Circle MEPCO Multan. 6. SE (Op) Circle MEPCO R.Y Khan. 7. Reginal Manager (M&T-II) MEPCO Multan. 8. Dy: Manager T&I (GSC) MEPCO Multan. XEN (P&I) Division MEPCO Multan. 10. XEN (SS&T) Division MEPCO R.Y.Khan. 1. Chief Executive Officer Punjab Industrial Estate Development & 2942-53 Management Company Lahore. S (F) DICDMC

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SUBJECT:- ENERGIZATION OF 132-KV GRID STATION PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY (PIEDMC) LAHORE (Rahim Yar Khan Industrial Estate).

Consequent upon service connection order issued by Chief Engineer P&E vide letter No. 059129 Dated 02-07-2021 after fulfilling the code formalities and Completion certificate regarding construction / installation of grid equipment given by M/s PIEDMC vide office letter No. PIE/CEE/1629 dated 15.06.2021 Chief Engineer P&E MEPCO Multan constituted a technical committee for testing, commissioning equipment verification, meter installation and energization of 132-KV Grid Station of Punjab Industrial Estate Development and Management Company (PIEDMC) Lahore (Rahim Yar Khan Indusírial Estate) vide office order No. 6306-23 dated 02.07.2021.

Chief Engineer (T&G) MEPCO Multan being convener of technical Committee, fixed committee meeting on dated 05.07.2021 at 14:00Hrs at captioned grid station vide office letter No1031-40 dated 02.07.2021. Technical Committee visually inspected the installed grid station equipments. The detail of installed equipment at said grid station as under:

- > 132/11KV, 31.5/40MVA Power Transformer make HEC
- 132KV PT (metering, Bus Bar) make Sieyuan China
- > 132KV CTs (Transformer, Line) make Sieyuan China
- 132KV CTs (Metering) make Arteche China
- 132KV Isolator (Bus Bar, Line) make Taikai China
- > 132KV & 11KV Surge Arrestor make EMCO Pakistan
- AC/DC Auxiliary Panel, 11KV Capacitor Panel along with capacitor bank, 11KV Incoming Panel, 11KV Outgoing Panels (13 Nos) & 11KV Bus Coupler Panel all having make PEL
- 132KV Control Panels & 132KV Relay Panels make SIEMENS Pakistan
- 132KV Metering Panels make SIEMENS Pakistan
- I32KV Energy Meters make ISKRA Slovenia with accuracy class 0.2s
- 110V DC Battery Charger make Electroways
- > 110V DC Battery Bank make Exide Pakistan

Testing of narrated above installed grid station equipment and energy meters carried out by M/s NETRACON which was witnessed by T&I/P&I/M&T/SS&T formations of MEPCO on dated 07.09.2020 to 13.09.2020 in accordance with pre-defined SOP. Technical committee scrutinized all test results and observed test values within the permissible limits.

Technical Committee also observed that 02 sets of dedicated 132KV metering CTs and metering PTs for billing & backup metering have been installed at each 132kv line bay of said grid station.i.e (In & Out arrangement)

For primary metering, Relevant CT & PT secondary circuit of dedicated 132KV metering CTs and metering PTs (set no.1) has been wired up for both primary energy meters (Billing Energy Meter) installed at each 132KV Line.

<u>For back-up metering</u>, secondary circuit wiring of dedicated set of metering CTs (set No.2), has been carried out in subtractive polarity. Similarly, metering PT circuit was wired up through two magnetic PT contactors. The backup energy meter's PTs are feed through these contactors. Priority of energization of PT contactor was given to feeding source from Rahim yar khan grid station. In case of non-feeding source from Rahim Yar Khan grid station (de-energized) backup energy meters will be energized from PTs installed on line bay connected to feeding source Sadiqabad Grid Station.



ELSTER USA make energy meter with accuracy class 0.2s is also installed at 132KV side on Control Panel of 31.5/40MVA, 132/11KV Power Transformer having connected CT ratio=200/5A as current input and 132KV bus bar PT ratio=132000/110V as voltage input. Installed energy meter at 132KV Side of power transformer cannot be secured but may be considered for the comparison of units consumed/MDI recorded.

Chief Engineer T&G MEPCO H/Qs Multan has accorded approval for agreement regarding operation and maintenance of 132/11.5KV Grid Station R.Y.Khan Industrial Estate between MEPCO and M/s PIEDMC which has been intimated by Addl: Chief Engineer GSO Circle Multan vide office letter no. 9930-32 dated 01.07.2021.

In view of above all, technical committee has unanimous opinion that Power Transformer Bay may be commissioned / energized.

NOTE: PIDEMC will fully comply the general terms and conditions under tariff B-4 as per Anex.A issued by Chief Engineer P & E, Multan, MEPCO vide letter No._5499/CE(P&E)_ Dated 09.06.2021.

XEN (P&I) MEPCO Multan

Member)

Dy. Manager/E& MEPCO Multan (Member)

Project/Director (GSC

MEPCO Multan (Member)

SE (OF) Ci **?.Y.Kha**n

Regional Manager (M&T-II)

MEPCO Multan (Member)

LPCO Circ an (Member) HAUMAN MUS AM Chief Engineer O&M (T&G) HAUMAN MEPCO Multan (Convener) HAUMAN MEPCO Multan (Convener)



- 1EPC ENLIGHTENING LIVES Other General Terms and Conditions under Tariff B-4 are mentioned below; -Page-2 (Pumple Industrial Estate P.7. 1 Jun.) FIEDMC will provide under taking regarding of 11-KV feeder (being, used for 2.5MIN) energized from 132KV Grid Stallon Sadigabad that they agree to shift
 - said load to 132KV PHEDMC Grid Station to avoid double source by PHEDMC will provide an under taking that they will be liable to pay any amount ii)
 - pointed out by audit or any other aftency at any later stage. That any other amount recoverable from you as per general terms and conditions iii) of Tariff R-4. difference in material rates and security amount if not/less paid, as
 - pointed out by Audit at later stage shall be recovered from you as per rules. At the time of execution of construction work of 132kV Transmission Line any iv) other material if required by any formation GCS, SS/rT or Field formation, that
 - will be arranged/provided by your management. All the work shall be executed according to the PEPCO/MEPCO Standard **v**) Design Instructions and Specification.
 - The consumer will ensure that the work for construction of Grid Station will be vi)
 - according to WAPDA / PEPCO/ MEPCO standard specifications. PIEDMC will abide by all the under taking already provided vide letters No. vii)
 - 3059 dated 28.12.2017 & 1308 dated 01.03.2021. PIEDNIC will provide Wiring Test Report duly verified from S.E (OP) MEPCO viii)
 - ix
 - During execution of work all the Safety & Protection Measures will be fulfilled and observed by your Management accordingly to avoid any mishap. \mathbf{x})
 - If the management is agreed with all above mentioned term & conditions, the demand notice/amount may be deposited with in stipulated time. On the Depositing of demand notice, it will be presumed that management has fully agreed / accepted all the above mentioned Terms & Conditions.

This is issued with the approval of Competent Authority.

DA/ As above

CC to:-

- 1. General Manager CSD MEPCO Ltd, Multan
- Chief Engineer (Dev.) PMU MEPCO Ltd, Multan.
- 3. Chief Engineer (T&G) MEPCO Ltd Multan
- Manager Design (CS) NTDC WAPDA House Enhore.
- 5. Finance Director MEPCO.
- 6. Director (Commercial) MEPCO.
- 7. SE (GSO) MILPCO Circule Multan.
- 8. SE (Op) MEPCO Circle Mullan
- 9. Electrical Inspector Punjab, Multan Region, 23-P Block Shah Rukan-e-Alam colony near Shan Chowk Multan.

PC-5/E/Conn: Section B-3/D.N (New Connection) II-4

MEPCO Ltd, Multhh du

Child Engineer



PROJECT FEASABILITY REPORT

FOR

MASTER PLANNING AND DETAILED DESIGN OF INFRASTRUCTURE DEVELOPMENT OF RAHIM YAR KHAN INDUSTRIAL ESTATE AT SADIQABAD

PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY, LAHORE

∠IC:∃OSMANI

Engineering - Architecture - Planning - Mapping - Technology

OSMANI & COMPANY (PVT.) LTD.

Consulting Engineers – Architects – Planners Osmani House, 245/2-K, Block-6, P.E.C.H.S, Karachi Tel: (92-21) 34536007-08, 34546541-42, Fax: (92-21) 34534691 E-mail: <u>ocl-khi@osmani.com</u> Web: www.osmani.com



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1. INTRODUCTION

Punjab is the largest populated province of Pakistan; the industrialization in the province of Punjab is developing day by day with rapid growing world. Government of Punjab is taking keen interest in developing the state as an industrial developed state. Government of Punjab announced its industrial policy in 2003. Punjab Industrial Estates & Development Company (PIE) was established in pursuance of this industrial vision.

Punjab Industrial Estates Development and Management Company, has become a model company for other industrial infrastructure development organizations, Government of Punjab aims at rapid industrialization to provide opportunities such as, creating jobs, alleviating poverty and contributing towards GDP growth for the Province. Chief Minister Punjab Mian Muhammad Shahbaz Sharif's vision is devoted to PIE to bring a significant change in the country through rapid industrialization in the province of Punjab.



Figure (I) - Locations of Industrial estates in Punjab

Amongst the mega development projects of PIE, Development of Rahim Yar Khan Industrial Estate at Sadiqabad is one of the most significant developments located at N5 Sadiq Abad Road opposite Data Steel Mill Sadiqabad. Punjab

Industrial Estate (PIE) aims to expose small and medium industries to latest trends in technology by providing a platform in modern industrial parks. Development of Rahim Yar Khan Industrial Estate will be flourished with modern infrastructure, technology and services that will bring economic prosperity in the province and country at an unforeseen pace transforming the dreams of business community into reality.

2. BACKGROUND

The Rahim Yar Khan Industrial estate at Sadiqabad to be constructed is a project proposed by the Punjab Industrial Estate Development and Management Company, Lahore, intending to provide the best latest infrastructure, facilities and technology with modern eco-friendly working environment. The Project proposes to have an industrial estate of international standard which flourish culture of industrialization in Pakistan, and to represent Punjab and Pakistan as a developed state to the world as an extravagant model.

3. THE PROJECT

3.1 SCOPE OF WORK

PIEDMC appoint M/s Osmani & Company (Pvt) Ltd. (OCL) as consultants for this project. The consultancy contract between PIEDMC and OCL was signed in October, 2011. The objectives of the consultancy assignment include:

- Preparation of preliminary layout plan of the estate.
- Detailed master plan including design of Roads, Sewerage, Drainage, Water Supply, provision for Fire-fighting, Electricity, Waste water Treatment, Solid Waste Collection & Disposal System and Waste Structures.
- Preparation of Environmental Impact Assessment (EIA) for approval of Environmental Protection Department (EPD).

F

- Preparation of Engineers Estimate based upon market rates.
- Preparation of BOQs and Tender documents with specifications

3.2 PROJECT GOALS

Project goals are described hereunder:

- To provide developed plots for industries with latest and most modern utilities & facilities based on the modern planning principles
- To make the whole project self supporting
- To create more jobs
- To alleviate poverty
- To boost manufacturing and trading businesses
- To Promote Industrialization in the Country
- To provide sustainable GDP growth
- To develop less developed areas of Punjab

3.3 IMPORTANCE OF THE PROJECT

The importance of establishment of modern industrial parks/estates cannot be over emphasized in the present era of economic recession when we need to generate economic activities and create employment opportunities. Experience in the country and elsewhere strongly indicates that industries thrive better when established in planned environment of an industrial estate.

3.4 BENEFITS OF THE PROJECT

The benefits of industrial estates include:

- Structured platform available to set up industries
- Developed infrastructure available



- Provide support services/utilities at one location
- Availability of skilled/unskilled manpower
- Strength of each region can be capitalized
- Secure environment
- Easy to comply with environmental regulations
- Liberal investment policies

4. POSITIVE IMPACTS OF THE PROJECT

It is world known phenomena that an industrial estate establishment brings prosperity to the local community and businesses which materialized into regional and national wealth. Hence, development of RYK-IE in the sight of PIE will provide direct and indirect benefits such as:

- Poverty alleviation and generation of jobs in the Area;
- Revenue generation after selling the industrial plots to the industrialists;
- Reduction in environmental pollution due to good in-house environmental practices such as solid waste and wastewater management;
- Bringing foreign investors in Pakistan that generates revenue, ultimately it will bring development and facilities in the community. As Rahim Yar Khan already has very good connection with the investors of UAE, therefore, it is likely that it would be improve further;
- Peace of mind in business and ideal working conditions for the local residents;
- Better communication network by roads, railway and presence of cell companies and also ease in haulage of raw materials and finished commodities;
- Increase in textile, Fertilizer, Soap technology and chemicals production
 that will also increase the overall revenue at the local government level
- Professional training opportunities for skilled and non-skilled workers

5. Contextual analysis

5.1 Location and Accessibility:

It is 70.18N, 28.385E to 70.179N, 28.378E and 70.171N, 28.375E to 70.179N, 28.373E. The site is located at N5 Sadiq Abad Road opposite Data Steel Mill. It is 2.5km away from National Railway, about 12.5km from the city of Rahim Yar khan.



FIGURE (II): LOCATION MAP

5.2. CLIMATE AND ENVIRONMENT:

The climate of the district Rahim Yar Khan is generally hot and dry in summer and cold and dry in the winter. The summer season is comparatively longer. In winter the wind direction is north-west while in summer it is from south-east. There is little rainfall in this region and humid spell is between June and September. The project area is mostly comprises of flat terrain and there is no obvious topographic variations. It lies 77 to 82 feet above sea-level. The predominant land use of the project area is agriculture.

5.3. LOCATION ADVANTAGE:

- Competitive Advantage of the Region
- Potential for Forming IEs in the region
- Presence of Transportation Nodes
- Presence of Training Facilities
- Fiscal Incentives applicable

6. DEVELOPMENT OF MASTER PLAN AND INFRASTRUCTURE

6.1 CONCEPT OF MASTERPLAN

The concept on which the master plan of Rahim Yar Khan industrial estate has been developed is on "Grid planning in clusters". This type of planning provide opportunity to all the plots to have easy access to all the infrastructure facilities as all the plots face directly Primary or secondary road and maximum land utilisation is done with the most efficient circulation pattern for goods and personnel. The master plan is developed with conform to land use, zoning regulation and environmental standards. With the fastest growing development and rapid changes in industrial world the overall development of Rahim Yar Khan Industrial estate plans to have the first developed Eco-Industrial estate in Pakistan. The overall concept is planned to maintain the coherence of the communal. industrial and recreational zones with the modern infrastructure planned on international standards. Keeping in view the concept drew for the master plan of the Rahim Yar Khan industrial estate aims to flourish the industrial culture with sustainable approach so that it provide a platform to be able to withstand with both present and future industrialisation.



6.2 LAND-USE DISTRIBUTION

Land-Use Standards for Industrial Towns

- Industrial Plots (i/c warehouses) 70.0% (max)
- > Amenities

a.	Roads / Parking	20.0% (min)
b.	Parks & Playgrounds	3.0% (min)
C.	Public Uses	6.0% (min)

- c. Public Uses
- ➤. Commercial

1.0% (max)



FIGURE (III): LAYOUT PLAN


FIGURE (IV): INDUSTRIES TYPE DISTRIBUTION LAYOUT PLAN



6.3 INFRASTRUCTURE

The RYK industrial estate intends to develop best infrastructure. The industries will be facilitated with all amenities of modern living including potable water supply, adequate disposal of sewage and storm water, waste management, gas, electric power, transport, communication, recreational and other required facilities.

6.3.1. TRANSPORTATION

Transportation systems represent an important element during the planning process. A suitable and efficient road and public transport network within the development will logically ensure safe and efficient circulation of vehicles and commuters throughout that development. This is achieved through the provision of adequate and appropriate transportation facilities that are able to serve the expected traffic demand at the appropriate levels of service. Therefore, understanding and evaluating the existing and proposed transportation infrastructure network connecting to RYK industrial estate along with traffic demand modelling is considered vital to the success of this project.

Following are the important elements considered logically to ensure best transportation system for RYK Industrial estate, they are

- Site access and egress
- Road network development
- Travel demand forecast
- Traffic management
- Public transport strategy

6.3.2. ENERGY AND RENEWABLE RESOURCES

ENERGY:

a. Water & Power Development Authority (WAPDA)

RENEWABLE RESOURCES:

RYK Industrial estate, Energy strategy is a holistic plan for sustainable energy with emphasis on Energy Conservation and Efficiency along with Renewable energy generation at both Macro (Solar & Wind parks) to Micro (Small house Hybrid systems) levels. This Energy strategy is in line with the latest energy approach both internationally and also in Pakistan.

The potential value of introducing new renewable energy sources represents positive change to the local perception of the City. The opportunity to create new jobs based on alternative sustainable strategies will promote the protection of ecosystem, and create new job opportunities at all levels, from research to production.

6.3.3. WATER SUPPLY, SEWARAGE AND DRAINAGE SYSTEM

The present planning proposal for RYK industrial estate of Water Supply, Sewerage and Drainage have been prepared after the detail study which include

- Assessment of requirements of water supply, sewerage and drainage systems.
- Identification and assessment of existing/available potential at site for providing the required water supply, sewerage and drainage services.
- Detailed survey and investigations required, for the design of the required/proposed facilities of water supply system, sewerage network with the treatment and disposal of sewage and drainage network with utilization and disposal of storm water systems.
- Study of various available/feasible alternates for providing the required facilities of Water Supply, Sewerage and Drainage Systems in RYK industrial estate and taking the necessary steps for the preparations of a Preliminary and a Detailed Design along with construction documents and drawings required for the timely implementation of the RYK industrial estate Karachi Project.
- Preparation of a schedule of implementation for investigation, design and implementation of the proposed Water Supply, Sewerage and Drainage Systems.



and 🤇

6.3.4. COMMUNICATION

Wire telephone:Pakistan Telecommunication Ltd (PTCL)Mobile companies:Warid, Ufone, Telenor, Zong, MobilinkCable TV companies:PTCL and othersGas supply:Sui Southern Gas Company (SSGC)Internet providers:PTCL, Wateen, etc.

6.3.5 SECURITY

SECURITY PLANNING

Planning for safety & security should be founded upon risk assessment. The purpose of risk assessment is to remove vulnerabilities in the proposed development, so that the level of residual risk is tolerable to the owner & safeguards the security of the stake holders.

Due to the growth in terrorist incidents, it is vital to design a secure and safe environment for both the recent and future developments of RYK Industrial estate. To achieve such a goal, both traditional and contemporary methods must collaboratively be used for providing the highest levels of security. The security system of RYK industrial estate has to be studied in several phases. The location, type and size of development influence the extent and method of protecting a development from safety hazards and security threats.

7. DESIGN STRATEGIES AND RECOMMENDATIONS

7.5.1 FUTURE STRATEGIES AND RECCOMMENDATIONS

Following are the major strategies set for The RYK industrial estate,

- Encouragement of industrial estate Infrastructure
- Enhancing supply of skilled manpower



- Promotion of Knowledge Process Outsourcing (KPO) based industries
- Development of Agriculture and Landscapes;
- Assessment of Permaculture ;
- Development inclusive of Green Houses ;
- Self Sufficient Small Farms;
- Drought Resistant Plants; and
- Indigenous Fruit Nurseries

7.5.2. SUSTAINABLE DESIGN STRATEGIES

To develop the overall project few design strategies may be implemented as the bye-law of the RYK industrial estate to accomplish the approach of sustainability. Following are the few initiatives that must be followed while designing the buildings, they are:

- Insulated construction with Hollow Blocks for general insulation with special thermal Insulation undercoat for South & West Walls
- Weather shield Reflective paint
- Passive Cooling
- Shades on Openings and shaded balconies
- Aluminum Windows with Double Glazing
- Solar Geyser
- Energy Savers bulbs
- Grey Water Recycling system for Landscape & Toilet flush Tanks
- Insulation on Roof with C.C insulated tiles
- Rainwater re-cycling
- Building connected to electrical system inclusion of alternate energy system (wind turbines/solar panels)
- Efficient garbage collection rooms

8. Salient Features of RYK Industrial Estate

Industrial Plots

Entry Complex



CHOSIN



- Admin offices
- Security Offices
- Police Post
- Car Parking

Services

- PIEDMC Administration Offices
- HRD
- Petrol/Gas Stations
- Auto-Service
- Weigh Bridges
- Fire Fighting
- Hospital
- Mosque
- Security
- Police Posts

Utilities

- Electric Grid Station
- Water Works
- Combined Effluent Treatment Plant
- Storm Water Drainage
- Gas Distribution Centre
- Satellite-Earth Station
- Telephone Exchange
- Mobile Telephone Towers
- Utility lines for electric, water, sewerage, gas, phone & cable (to be underground)
- Solid Waste Disposal System

HRD / Academic



- Vocational Training
- I T Training
- Adult Literacy Centre
- Employment Exchange
- Recreation Centers
- Recreation club
- Gymnasium / Fitness Centre
- Play Grounds
- Park & Garden
- Swimming Pool

Commercial

- Post Office / Private Courier Companies / PCO
- Clinic /Hospital
- Bank
- Canteen
- Hotels / Motels
- General Shops

9. REQUIRED DATA

There is certain data which is required to develop the master plan from client beyond the scope of work of the consultants. Following are the major required data:

- Location of water source
- Quota of water available so that balance can be planned
- Sewerage disposal Area to be earmarked as client has to take various permissions from the local government
- Location of Solid waste land fill site (as it is to be controlled by location municipality)

10. CONCLUSION

The project aim to be developed as a first Eco Industrial estate of Pakistan where the local as well as the neighboring industrialists from other provinces





and other foreign investors can invest and set up their industry in an ecoindustrial estate which has the potential to grow and establish in accordance with the pace of modern world industrialization. The sustainable approach to the project will twofold the potentialities of the project both economically and environmentally. The project proposed is set to have the most efficient industrial estate management, modern and developed infrastructure, thus result as a utopian platform for upcoming industries towards prosperity.



PHASE II DESIGN REPORT

1. INTRODUCTION

Rahim Yar Khan Industrial Estate will be a Landmark Industrial Development Project and will help assist industrial growth in the area and in the region. As the Industrial Estate flourishes it will attract other industries to interact and maybe relocate there and maybe attract foreign investors too In order to make the Industrial Estate a success, a secure environment and a reliable infrastructure has to be in place. Availability of secure electricity is always a prerequisite for growth of any industrial zone. This report shall address the electrification aspect of Rahim Yar Khan Industrial Estate located in Sadiqabad. The basic feature of the distribution network is 11 kV overhead lines. This report also includes the design of street lights; a complete set of tender documents is also included. And lastly it should be mentioned that this report and tender documents is restricted to Phase II only. Complete set of report, tender documents, Bill of Quantities for the Grid Station shall follow later, once the clarifications are received.

2. SCOPE OF WORK

- Design & Drawings of electrification of Rahim Yar Khan Industrial Estate Phase II.
- Design report
- Final Design criteria, calculation data of Electrical load and references, codes etc.
- Bill of Quantities.
- Engineer's estimate.
- Complete set of Tender Documents with provisions.

3. DESIGN DATA

Total covered area

Following are the basic parameters of Rahim Yar Khan Industrial Estate Phase

213.04 acre

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	WASC /	
	gai and Ja	A CONSTRUCTION OF THE OWNER OWNER OF THE OWNER

•	General & Seed Processing	48
•	Chemical Industry	32

General & Halai Meat Indutry

45.42 acre 32.40 acre 86.86 acre 2885 kW 4800 kW 8660 kW

•	Garment Industry	1.52 acre	150 kW
•	500 sq. yd Commercial Plots	1.24 acre	1200 kW
•	Grid Station	2.84 acre	100 kW

4. CO-ORDINATION & APPROVALS

All design parameters and electrification plan / design are to be coordinated with the Client – Rahim Yar Khan Industrial Estate and duly approved by them.

5. DESIGN CRITERIA

Design of feeders for individual plots and their load calculation are based on the WAPDA Standards.

6. DESIGN CONSIDERATIONS

At the very outset it was emphasized that due to costs considerations the 11kV electrification will be based on overhead lines and the use of underground cables will be limited to areas which cannot be fed by overhead lines.

7. LOAD SUMMARY

Total Load of Rahim Yar Khan Industrial Estate for phase II has been calculated. The total Industrial is **18395 kW**. Maximum demand at diversity factor of 0.80 is **14716 kW**. Future maximum load demand at 20% is expected to be **17659 kW**. The loads of these areas are assessed on the basis of the size of plots and the type of industry.

Following sheets are included in this report:

- Sheet 1 Electrical Loads for Industrial Plots.
- Sheet 2 Load Calculation Sheets for Industrial Plots.
- Sheet 3 Load Sheets for Feeder 5 to 7.
- Sheet 4 Voltage Drop Calculations.

8. LOAD CALCULATIONS

The Electrical load of Industrial Plots was calculated on the basis of plot areas and the type of industrial loads experienced in existing Industrial Estates

9. Distribution System

The entire 11 kV electrical distribution system shall be mostly overhead line to ensure cost effective design, mostly Pad mounted transformers of 200 and 630 kVA ratings will be used in the distribution network.



1. ELECTRICAL LOAD FOR INDUSTRIAL PLOTS

<u>Phase-II</u>

Electrical Load Summary

S.NO	DESCRIPTION	LOAD KW
1	General & Seed Processing	2885 KW
2	Chemical Industry	4800 KW
3	General & Halal Meat Industry	8660 KW
4	Garment Industry	150 KW
5	500 sq.yd Comm. Plots	1200 KW
6	Grid Station	100 KW
	Total Load	18395 KW
	Maximum Demand @ Diversity Factor 0.8	14716 KW
	Maximum Demand @ Future Load 20%	17659 KW



	1. General & Seed Processing	
Plot No.	Load KW	Area
101	125 kw	2.33 acre
102	120 kw	2.00 acre
103	120 kw	2.00 acre
104	120 kw	2.00 acre
105	120 kw	2.00 acre
106	120 kw	2.00 acre
107	120 kw	2.00 acre
108	120 kw	2.00 acre
109	120 kw	2.00 acre
110	120 kw	2.33 acre
111	60 kw	1.38 acre
112	120 kw	2.00 acre
113	120 kw	2.00 acre
114	120 kw	2.00 acre
115	120 kw	2.00 acre
116	120 kw	2.00 acre
117	120 kw	2.00 acre
118	60 kw	1.38 acre
137	120 kw	2.00 acre
138	120 kw	2.00 acre
139	120 kw	2.00 acre
140	120 kw	2.00 acre
141	120 kw	2.00 acre
142	120 kw	2.00 acre
143	120 kw	2.00 acre
TOTAL LOAD IN KW	2885 kw	

<u>Phase-ll</u>

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2. Chemical Industry				
Plot No.	Load KW	Area		
119	300 kw	2.00 acre		
120	300 kw	2.00 acre		
121	300 kw	2.00 acre		
122	300 kw	2.00 acre		
123	150 kw	1.22 acre		
124	150 kw	1.22 acre		
125	300 kw	2.00 acre		
126	300 kw	2.00 acre		
127	300 kw	2.00 acre		
128	300 kw	2.00 acre		
129	300 kw	2.00 acre		
130	300 kw	2.00 acre		
131	300 kw	2.00 acre		
132	300 kw	2.00 acre		
133	300 kw	2.00 acre		
134	300 kw	2.00 acre		
135	300 kw	2.00 acre		
TOTAL LOAD IN KW	4800 kw			

Phase-II



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Phase-II

3. 6	General	&	Halal	Meat	Industry
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Plot No.	Load KW	Area
58	200 kw	2.33 acre
59	200 kw	2.00 acre
60	200 kw	2.00 acre
61	200 kw	2.00 acre
62	200 kw	2.00 acre
63	200 kw	2.00 acre
64	200 kw	2.00 acre
65	200 kw	2.00 acre
66	200 kw	2.00 acre
68	210 kw	2.10 acre
69	200 kw	2.00 acre
70	200 kw	2.00 acre
71	200 kw	2.00 acre
72	200 kw	2.00 acre
73	200 kw	2.00 acre
74	200 kw	2.00 acre
75	200 kw	2.00 acre
76	200 kw	2.00 acre
77	200 kw	2.00 acre
78	200 kw	2.00 acre
79	200 kw	2.00 acre
80	200 kw	2.00 acre
81	200 kw	2.00 acre
82	200 kw	2.00 acre
83	200 kw	2.00 acre
84	200 kw	2.00 acre
85	200 kw	2.00 acre
86	200 kw	2.00 acre
87	200 kw	2.00 acre
88	200 kw	2.00 acre
89	200 kw	2.00 acre
90	200 kw	2.00 acre
91	200 kw	2.00 acre
92	200 kw	2.00 acre

Plot No.	Load KW	Area
93	200 kw	2.00 acre
94	200 kw	2.00 acre
95	200 kw	2.00 acre
96	200 kw	2.00 acre
97	200 kw	2.00 acre
98	200 kw	2.00 acre
99	200 kw	2.00 acre
100	200 kw	2.00 acre
TOTAL LOAD IN KW	8410 kw	

<u>Phase-II</u> 4. Garment Industry

Plot No.	Load KW	Area
167	50 kw	0.50 acre
168	50 kw	0.50 acre
169	50 kw	0.52 acre
TOTAL LOAD IN KW	150 kw	



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Plot No.	500 sq.yd Comm. Plots Load KW	Area
C-83	100 kw	500 sq.yd
C-84	100 kw	500 sq.yd
C-85	100 kw	500 sq.yd
C-86	100 kw	500 sq.yd
C-87	100 kw	500 sq.yd
C-88	100 kw	500 sq.yd
C-89	100 kw	500 sq.yd
C-90	100 kw	500 sq.yd
C-91	100 kw	500 sq.yd
C-92	100 kw	500 sq.yd
C-93	100 kw	500 sq.yd
C-94	100 kw	500 sq.yd
TOTAL LOAD IN KW	1200 kw	

Phase-II				
5. 500 sq.yd Comm. Plot	ts			

Development of Rahimyar Khan Industrial Estate

Phase-II

6.	Grid	Station
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Plot No.	Load KW	Area
67 (Grid Station)	200 kw	2.84 acre
TOTAL LOAD IN KW	200 kw	

2. ELECTRICAL LOAD CALCULATION SHEETS FOR INDUSTRIAL PLOT



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3. ELECTRICAL LOAD SHEETS FOR FEEDER 5 TO 7

ahimyar Khan Industrial Estate

Phase-II

Calculation Sheet

FT²	POWER FACTOR 0.85	DEMAND FACTOR 0.8	TOTAL LOAD KW	LOAD/PLOT (CALCULATED) KW	LOAD/PLOT (FOR FEEDER) KW	TOTAL LOAD (FOR FEEDER) KW	TOTAL LOAD FOR FEEDER kVA	TOTAL LOAD/PLOT FOR FEEDER kVA
ł	0.85	0.8	102.19	51.10	60	120	120.23	60.11
	0.85	0.8	2488.16	118.48	120	2520	2927.24	139.39
	0.85	0.8	276.07	138.03	125	250	324.78	162.39
	0.85	0.8	361.38	180.69	150	300	425.15	212.57
	0.85	0.8	4146.93	296.21	300	4200	4878.74	348.48
	0.85	0.8	7109.02	177.73	200	8000	8363.55	209.09
	0.85	0.8	186.61	186.61	210	210	219.54	219.54
	0.85	0.8	206.16	206.16	200	200	242.54	242.54
	0.85	0.8	148.10	148.10	250	250	174.24	174.24
-	0.85	0.8	1175.04	97.92	100	1200	1382.40	115.20
-	0.85	0.8	92.42	46,21	50	100	108.73	54.36
-				TOTAL LOAD O	N PHASE I	17350		



Phase-II	
Load Sheet for Feeder No 5	

Sr. No	Location	No. of Plots	Load Per Plot	Total Load KW	Total load MW
1	94	1	200 KW	200 KW	0.20 MW
2	101	1	120 KW	120 KW	0.12 MW
3	102	1	120 KW	120 KW	0.12 MW
4	103	1	120 KW	120 KW	0.12 MW
5	104	1	120 KW	120 KW	0.12 MW
6	105	1	120 KW	120 KW	0.12 MW
	143	1	120 KW	120 KW	0.12 MW
8	142	1	120 KW	120 KW	0.12 MW
9	106	1	120 KW	120 KW	0.12 MW
10	107	1	120 KW	120 KW	0.12 MW
	108	1	120 KW	120 KW	0.12 MW
12	109	1	120 KW	120 KW	0.12 MW
13	110	1	120 KW	120 KW	0.12 MW
14	95	1	200 KW	200 KW	0.20 MW
15	96	1	200 KW	200 KW	0.20 MW
16	111	1	60 KW	60 KW	0.06 MW
17	112	1	120 KW	120 KW	0.12 MW
18	113	1	120 KW	120 KW	0.12 MW
19	114	1	120 KW	120 KW	0.12 MW
20	141	1	120 KW	120 KW	0.12 MW
21	140	1	120 KW	120 KW	0.12 MW
22	115	1	120 KW	120 KW	0.12 MW
23	116	1	120 KW	120 KW	0.12 MW
24	117	1	120 KW	120 KW	0.12 MW
25	118	1	60 KW	60 KW	0.06 MW
26	97	1	200 KW	200 KW	0.20 MW
27	98	1	200 KW	200 KW	0.20 MW
28	C-83 To C-88	6	100 KW	600 KW	0.60 MW
29	119	1	300 KW	300 KW	0.30 MW
30	120	1	300 KW	300 KW	0.30 MW
31	121	<u>_</u>	300 KW	300 KW	0.30 MW
32	122	1	300 KW	300 KW	0.30 MW
33	123	1	150 KW	150 KW	0.15 MW
34	139	1	120 KW	120 KW	0.12 MW
35	138	1	120 KW	120 KW	0.12 MW
36	137	1	120 KW	120 KW	0.12 MW
	L		Total		5.83 MW

Feeder Load Current = 382.5A

Using Overhead Conductor ACSR-PANTHER-Current Rating = 421A

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Phase-II		
Load Sheet for Feeder No 7		

Sr. No	Location	No. of Plots	Load Per Plot	Total Load KW	Total load MW
1	58	1	200 KW	200 KW	0.20 MW
2	59	1	200 KW	200 KW	0.20 MW
3	60	1	200 KW	200 KW	0.20 MW
4	61	1	200 KW	200 KW	0.20 MW
5	62	1	200 KW	200 KW	0.20 MW
6	63	1	200 KW	200 KW	0.20 MW
7	64	1	200 KW	200 KW	0.20 MW
8	65	1	200 KW	200 KW	0.20 MW
9	66	1	200 KW	200 KW	0.20 MW
10	67	1	100 KW	100 KW	0.10 MW
11	73	1	200 KW	200 KW	0.20 MW
12	74	1	200 KW	200 KW	0.20 MW
13	75	1	200 KW	200 KW	0.20 MW
14	76	1	200 KW	200 KW	0.20 MW
15	77	1	200 KW	200 KW	0.20 MW
16	78	1	200 KW	200 KW	0.20 MW
17	79	1	200 KW	200 KW	0.20 MW
18	80	1	200 KW	200 KW	0.20 MW
19	81	1	200 KW	200 KW	0.20 MW
20	82	1	200 KW	200 KW	0.20 MW
21	83	1	200 KW	200 KW	0.20 MW
22	84	1	200 KW	200 KW	0.20 MW
23	85	1	200 KW	200 KW	0.20 MW
24	86	1	200 KW	200 KW	0.20 MW
25	88	1	200 KW	200 KW	0.20 MW
26	89	1	200 KW	200 KW	0.20 MW
27	90	1	200 KW	200 KW	0.20 MW
28	91	1	200 KW	200 KW	0.20 MW
29	92	1	200 KW	200 KW	0.20 MW
30	93	1	200 KW	200 KW	0.20 MW
	······································		Totai	Load	5.90 MW

Feeder Load Current = 387.09A

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Using Overhead Conductor ACSR-PANTHER-Current Rating = 421A

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Development of Rahimyar Khan Industrial Estate <u>Phase II</u> <u>Voltage Drop Calculation:</u>

Feeder No-6:

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A. Voltage Drop	For Overhead	Transmission Line Section:

Length of overhead Transmission Line	= 1450m = 1.45km
Resistance at 20° C ACSR Panther	= 0.1363 ohm/km
System Current	l = 421A
System Voltage	Vd= 11000 ac
Voltage Drop	V = IR
	= 421 x 1.45 x 0.1363 = 83.20V
% Voltage Drop	= 0.75%

B. Voltage Drop For Underground Transmission Line Section:

Length of Underground Cable Line	= 170m = 0.170km
Impedance at 50 Hz	= 0.135 ohm/km
System Current	= 421A
System Voltage	= 11000 ac
Voltage Drop	Vd= IR
	= 421 x 0.135 x 0.170 = 9.66V
% Voltage Drop	= 0.08%
Total Voltage Drop For F6	= 83.20 + 9.66 = 92.86V
Total %Voltage Drop	= 0.84%



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BILLING AND COLLECTION PROCEDURE (INCLUDE PROVISION FOR REMOTE METERING)

ELECTRICITY BILLING PROCEDURE

- 1. Signed reading sheets received from Electrical Department by 05th of every month.
- 2. Preparation of Electricity (B-2, B-3, A-2 & Temporary) tariff-wise sheets for uploading on software.
- 3. Update the electricity billing sheet (new Connection/Extension of load) data given by Electrical Department.
- 4. Preparation & calculation of LPS (Late Payment Surcharge) of Electricity Billing.
- 5. Calculate the any new adjustment / relief passed by DISCO.
- 6. Billing to Customers as per NEPRA / Govt. notified tariffs and rates.
- 7. Compiling, printing and dispatching of Electricity Bills after receiving of Industrial Estate bill from concerned DISCO.
- 8. Billing is being proceed at-par with NEPRA / Govt. notified tariffs and rates through Power Information Technology Company (PITC) on Integrated Billing System (IBS).

COLLECTION PROCEDURE

- 1. Mode of Payment:
 - i. Cheques
 - ii. Pay order
 - iii. IBFT
 - iv. RTGS
 - v. Online Transfer
 - vi. Cash (No cash payment received at BOM Customer deposits cash directly into the Bank)
- 2. Customer approached One-Window for deposit of bill.
- 3. SIE representative enter bill number in software.
- 4. Confirm the title, enter instrument number / date.
- 5. System generated receiving provided to customers.
- 6. It is mandatory for customer who deposits bill through IBFT, RTGS to get system generated receiving.



ABILITY TO ACCESS CONSUMER METERING SYSTEMS AND OTHER SERVICES/EQUIPMENT.

Meter reading of all the consumers of PIEDMC is carries out on a routine basis each month to record the consumption during a given period (billing cycle/billing month). The meter reading is generally taken/recorded by the concerned staff of PIEDMC (Meter Inspector, Meter Reader). For the purpose, the consumers of each sub division into a number of batches and sub-batches. The meter reading program shall be prepared in such a way that the meters of a batch are normally read on the same dates each month.

To ensure the proper billing to consumer of industrial estate, all energy meters will be purchased from the WAPDA approved manufacturers who will ensure the accuracy of these meters. Moreover, the testing and calibration of purchased Energy meters will be performed from concerned DISCO at the cost of consumer before energization/Installation of Energy meters.

Designation	Load	Type of connection	Type of Meter	Meter Class	Accuracy
Meter Reader	Upto 50 KW.	Temporary	Whole Current Energy Meter	1	
Meter Reader	Upto 25 KW.	Permanent	AMR Meter	0.5	
Meter Inspector	Above 25KW to less than 500KW.	Permanent	AMR Meter	0.5	· · · · · · · · · · · · · · · · · · ·
Assistant Manager(O&M)	500KW and Above.	Permanent	AMR Meter	0.2	

Meter readings of all types of connections are as under:

Taking snapshots of meter readings of all consumer categories is mandatory. Meter readings are taken through mobile snapshots/hand held units to ensure correct readings. The snapshots of meter reading including Net Metering facility wherever applicable showing import and export units are printed on electricity bill. PIEDMC shall make available record of snapshots for twelve months for presenting before concerned DISCOs, NEPRA or any other competent forum if required for settlement of billing dispute, raised by any consumer.

Meter Readers shall also check the irregularities/discrepancies in the metering system at the time of reading meters / taking snapshots and report the same in the reading book/discrepancy book or through any other appropriate method as per the practice. The concerned officer/official will take corrective action to rectify these discrepancies.

PIEDMC install back-up meter on all industrial connections having sanctioned load of 25KW and above on request of the consumer. The cost will be borne by the consumer if meters provided/arrange by PIEDMC on consumer's request. In case of any defect in the billing meter, the back-up meter will be converted into billing meter and the bill shall be charged on the basis of the consumption recorded on the back-up meter. Upon replacement of the impugned meter the same will be treated as back-up meter.



PIEDMC will be also adopted GSM Based Energy Meter in their Industrial Estates (Already adopted in Sundar Industrial Estate). It reduces human intervention required in keeping track of the total power consumption of the users. An SMS is sent directly to the user indicating the consumption and bill without the need of any individual from the Electricity Department to physically visit the site to note down the readings by the use of GSM module. This automation not only reduces the labor cost but also makes the system more efficient and accurate.



BASIS OF COMMON SERVICES FOR COMMERCIAL AND RESIDENTIAL CONSUMERS AND THEIR ALLOCATION THEREOF:-

1. ELECTICAL CONNECTIONS

PIEDMC provide temporary and permanent electrical connections to Resident Industrialists for construction and operation purpose. A temporary electric connection or any other emergent requirement of temporary nature will be given to consumer on first stage. A temporary electric power supply connection for the construction shall be provided by PIEDMC initially for a period of six months which is further extendable on three months basis up to connection of the specific job/project for which the temporary connection was obtained. The sanctioning officer ensured that the temporary connection is utilizing for temporary purpose only. After the construction work has been completed at site, the permanent connection will be given to resident industrialist basis upon their load requirement on different Tariffs as per kind of connection.

One window Operations are established in PIEDMC offices wherein all types of application

for connection are received from the consumers who are given acknowledgement of the

same.

2. <u>PROVIDING THE RING MAIN SYSTEM TO ENSURE THE</u> <u>SUSTAINABILITY AND RELIABLITY OF THE POWER SUPPLY TO</u> <u>CONSUMERS.</u>

PIEDMC provide the ring main system to ensure the sustainability and reliability of the power supply to their consumers. In ring main system, one ring network for load point is fed by more than one feeder and also connected with express feeders (back up feeder). In this case, if one feeder is under fault or maintenance, the ring distribution is still intact by other feeders or express feeder connected to it. In this way, the supply to the consumers is not affected even when any feeder becomes out of service.

3. PREVENTIVE/SCHEDULE MAINTENANCE

To keep the electrical power system in safe, stable and reliable operating condition, it is necessary that the system should be operated and maintained properly to retain its each component in or restore it to a state in which it can perform a required function.

Hence, the preventive maintenance is used to be carried out in accordance with an established time schedule.Scheduled maintenance covers all measures aimed at retaining the design state of the technical equipment belonging to a system and may take place as and when required or in regular/fixed interval of time.



Scheduled maintenance includes such activities as cleaning and washing, conservation, lubrication and where necessary amending or replacing parts subject to wear and tear. Scheduled maintenance also involves preparation of maintenance schedules, carrying out the specified work and dealing with feedback relating to this work. It is worth mentioning that an effective preventive maintenance program always minimizes emergency maintenance breakdowns and damages of infrastructure / grid station equipment.

4. TROUBLE SHOOTING/NON-SCHEDULED MAINTENANCE

PIEDMC is doing the Non-scheduled or corrective or emergency maintenance is often not in accordance with an established time schedule and usually needs as result of malfunction or unexpected defect. Non-scheduled maintenance covers all measures aimed at restoring the designed state of the technical equipment belonging to a system. Repair work and part replacement are typical types of corrective maintenance. It also involves planning, handling requests for performing/checking and evaluating the necessary measures (functional tests etc.). To identify the fault in case of Power Failure, the troubleshooting is done through test instruments and corrective measurements which can be used to help narrow the problem area and identify the problem components. Once the equipment is repaired/replaced, the power is restored.

5. COMPLAINT HANDLING

The compliant in respect of electric supply failures, quality of poor, meter reading and billing, and other matters relating to supply of electric power services has been handled by PIEDMC expeditiously (usually every compliant regarding restoration of power supply is attended within 20 Minutes). One window Operations are established in PIEDMC offices wherein all types of complaints are received from the consumers who are given acknowledgement of the same with definite dates for their replies according to time frame for handling and redressal of such complaints. These complaint offices shall work on 24-Hours basis even during holidays. The working of these complaints is to be supervised by higher officers of Electrical Department PIEDMC. The Customer Feeder back is also monitored and their grievances are readdressed as well.

6. ENSURE THE QUALITY POWER SUPPLY AS PER NTDC/NERPRA: -

To provide uninterrupted power supply to customers enabling trade and industry, educational & social activities to flourish and enrich the Consumers, PIEDMC ensure the Standard Quality power supply parameters as per NTDC/NEPRA. The parameters of electricity are maintained as per NTDC/NEPRA permissible limit of Voltage, Frequency and Power to ensure the quality of power to be supplied.



7. CONSTRUCTION OF OWN GRID STATION FOR ENSURING QUALITY POWER SUPPLY

Having the status of on point bulk supply consumer, PIEDMC construct own 132KV Grid Station in every industrial estate to cope with the increasing load demand and provide quality electricity to resident industrialist with lesser power outages, and reduce line losses likely less than 2%.

8. ESTABLISHING THE ALTERNATE SOURCE OF POWER:-

PIEDMC try to establish the alternate source of power through independent power producers by doing power purchase agreement as a long term and short term solution of Energy Short fall as well and to supply continuous electricity to Industrial Estates. This effort is to increase the industrialization and make the availability of 24HRS electricity.



Phase-II	
Load Sheet for Feeder No 5	

Sr. No	Location	No. of Plots	Load Per Plot	Total Load KW	Total load MW
1	94	1	200 KW	200 KW	0.20 MW
2	101	1	120 KW	120 KW	0.12 MW
3	102	1	120 KW	120 KW	0.12 MW
4	103	1	120 KW	120 KW	0.12 MW
5	104	1	120 KW	120 KW	0.12 MW
6	105	1	120 KW	120 KW	0.12 MW
7	143	1	120 KW	120 KW	0.12 MW
8	142	1	120 KW	120 KW	0.12 MW
9	106	1	120 KW	120 KW	0.12 MW
10	107	1	120 KW	120 KW	0.12 MW
	108	1	120 KW	120 KW	0.12 MW
12	109	1	120 KW	120 KW	0.12 MW
13	110	1	120 KW	120 KW	0.12 MW
14	95	1	200 KW	200 KW	0.20 MW
15	96	1	200 KW	200 KW	0.20 MW
16	111	1	60 KW	60 KW	0.06 MW
17	112	1	120 KW	120 KW	0.12 MW
18	113	1	120 KW	120 KW	0.12 MW
19	114	1	120 KW	120 KW	0.12 MW
20	141	1	120 KW	120 KW	0.12 MW
21	140	1	120 KW	120 KW	0.12 MW
22	115	1	120 KW	120 KW	0.12 MW
23	116	1	120 KW	120 KW	0.12 MW
24	117	1	120 KW	120 KW	0.12 MW
25	118	1	60 KW	60 KW	0.06 MW
26	97	1	200 KW	200 KW	0.20 MW
27	98	1	200 KW	200 KW	0.20 MW
28	C-83 To C-88	6	100 KW	600 KW	0.60 MW
29	119	1	300 KW	300 KW	0.30 MW
30	120	1	300 KW	300 KW	0.30 MW
31	121		300 KW	300 KW	0.30 MW
32	122	1	300 KW	300 KW	0.30 MW
33	123	1	150 KW	150 KW	0.15 MW
34	139	1	120 KW	120 KW	0.12 MW
35	139	1	120 KW	120 KW	0.12 MW
36	137	1	120 KW	120 KW	0.12 MW
			Total		5.83 MW

Feeder Load Current = 382.5A

Using Overhead Conductor ACSR-PANTHER-Current Rating = 421A

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Sr. No	Location	No. of Plots	Load Per Plot	Total Load KW	Total load MW
1	Fire Brigade	1	600 KW	600 KW	0.60 MW
2	135	1	300 KW	300 KW	0.30 MW
3	134	1	300 KW	300 KW	0.30 MW
4	133	1	300 KW	300 KW	0.30 MW
5	132	1	300 KW	300 KW	0.30 MW
6	131	1	300 KW	300 KW	0.30 MW
7	130	1	300 KW	300 KW	0.30 MW
8	129	1	300 KW	300 KW	0.30 MW
9	124	1	150 KW	150 KW	0.15 MW
10	125	1	300 KW	300 KW	0.30 MW
11	126	1	300 KW	300 KW	0.30 MW
12	127	1	300 KW	300 KW	0.30 MW
13	128	1	300 KW	300 KW	0.30 MW
14	C-89 To C-94	6	600 KW	600 KW	0.60 MW
15	99	1	200 KW	200 KW	0.20 MW
16	100	1	200 KW	200 KW	0.20 MW
17	87	1	200 KW	200 KW	0.20 MW
18	72	1	200 KW	200 KW	0.20 MW
19	71	1	200 KW	200 KW	0.20 MW
20	70	1	200 KW	200 KW	0.20 MW
21	69	1	200 KW	200 KW	0.20 MW
22	68	1	210 KW	210 KW	0.21 MW
	4		Total	Load	6.26 MW

Phase-II

Feeder Load Current = 410.71A

Using Overhead Conductor ACSR-PANTHER-Current Rating = 421A

Phase-II	
Load Sheet for Feeder No 7	

Sr. No	Location	No. of Plots	Load Per Plot	Total Load KW	Total load MW
1	58	1	200 KW	200 KW	0.20 MW
2	59	1	200 KW	200 KW	0.20 MW
3	60	1	200 KW	200 KW	0.20 MW
4	61	1	200 KW	200 KW	0.20 MW
5	62	1	200 KW	200 KW	0.20 MW
6	63	1	200 KW	200 KW	0.20 MW
7	64	1	200 KW	200 KW	0.20 MW
8	65	1	200 KW	200 KW	0.20 MW
9	66	1	200 KW	200 KW	0.20 MW
10	67	1	100 KW	100 KW	0.10 MW
11	73	1	200 KW	200 KW	0.20 MW
12	74	1	200 KW	200 KW	0.20 MW
13	75	1	200 KW	200 KW	0.20 MW
14	76	1	200 KW	200 KW	0.20 MW
15	77	1	200 KW	200 KW	0.20 MW
16	78	1	200 KW	200 KW	0.20 MW
17	79	1	200 KW	200 KW	0.20 MW
18	80	1	200 KW	200 KW	0.20 MW
19	81	1	200 KW	200 KW	0.20 MW
20	82	1	200 KW	200 KW	0.20 MW
21	83	1	200 KW	200 KW	0.20 MW
22	84	1	200 KW	200 KW	0.20 MW
23	85	1	200 KW	200 KW	0.20 MW
24	86	1	200 KW	200 KW	0.20 MW
25	88	1	200 KW	200 KW	0.20 MW
26	89	1	200 KW	200 KW	0.20 MW
27	90	1	200 KW	200 KW	0.20 MW
28	91	1	200 KW	200 KW	0.20 MW
29	92	1	200 KW	200 KW	0.20 MW
30	93	1	200 KW	200 KW	0.20 MW
			Total I	oad	5.90 MW

Feeder Load Current = 387.09A

Using Overhead Conductor ACSR-PANTHER-Current Rating = 421A

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Le	oad On I	Feeders	_
	Phase) II:	
Feeder No 5	Ξ.	5.83 MW	_
Feeder No 6	=	6.26 MW	_
Feeder No 7	=	5.90 MW	
Total Load	=	17.99 MW	
At 80% DF	=	14.39 MW	_
Grand Total	=	Phase I + Phase II	
	=	25.24 + 17.99	
	=	43.23 MW	





Development of Rahimyar Khan Industrial Estate Phase II Voltage Drop Calculation

A. Voltage Drop For Overhead Trans	mission Line Section:
Length of overhead Transmission Lin	e = 1920m = 1.92km
Resistance at 20° C ACSR Panther	= 0.1363 ohm/km
System Current	i = 421A
System Voltage	V= 11000 ac
Voltage Drop	Vd= IR
	= 421 x 1.92 x 0.1363 = 110.17V
% Voltage Drop	= 1.00%
B. Voltage Drop For Underground Tr	ansmission Line Section:
	ransmission Line Section: = 870m = 0.870Km
Length of Underground Cable Line	
Length of Underground Cable Line Impedance at 50 Hz	= 870m = 0.870Km
Length of Underground Cable Line Impedance at 50 Hz System Current	= 870m = 0.870Km = 0.135 ohm/km
Length of Underground Cable Line Impedance at 50 Hz System Current System Voltage	= 870m = 0.870Km = 0.135 ohm/km = 421A
B. Voltage Drop For Underground Tr Length of Underground Cable Line Impedance at 50 Hz System Current System Voltage Voltage Drop	= 870m = 0.870Km = 0.135 ohm/km = 421A = 11000 ac
Length of Underground Cable Line Impedance at 50 Hz System Current System Voltage	= 870m = 0.870Km = 0.135 ohm/km = 421A = 11000 ac Vd= IR
Length of Underground Cable Line Impedance at 50 Hz System Current System Voltage Voltage Drop	= 870m = 0.870Km = 0.135 ohm/km = 421A = 11000 ac Vd= IR = 421 x 0.135 x 0.870 = 49.44V



Development of Rahimyar Khan Industrial Estate Phase II Voltage Drop Calculation:

Feeder No-6:

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A. Voltage Drop For Overhead Transmission Line Section:				
Length of overhead Transmission Line	e = 1450m = 1.45km			
Resistance at 20° C ACSR Panther	= 0.1363 ohm/km			
System Current	= 421A			
System Voltage	V _d = 11000 ac			
Voltage Drop	V = IR			
	= 421 x 1.45 x 0.1363 = 83.20V			
% Voltage Drop	= 0.75%			

B. Voltage Drop For Underground Transmission Line Section:

Length of Underground Cable Line	= 170m = 0.170km
Impedance at 50 Hz	= 0.135 ohm/km
System Current	= 421A
System Voltage	= 11000 ac
Voltage Drop	Vd= IR
	= 421 x 0.135 x 0.170 = 9.66V
% Voltage Drop	= 0.08%
Total Voltage Drop For F6	= 83.20 + 9.66 = 92.86V
Total %Voltage Drop	= 0.84%



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BILLING AND COLLECTION PROCEDURE (INCLUDE PROVISION FOR REMOTE METERING)

ELECTRICITY BILLING PROCEDURE

- 1. Signed reading sheets received from Electrical Department by 05th of every month.
- 2. Preparation of Electricity (B-2, B-3, A-2 & Temporary) tariff-wise sheets for uploading on software.
- 3. Update the electricity billing sheet (new Connection/Extension of load) data given by Electrical Department.
- 4. Preparation & calculation of LPS (Late Payment Surcharge) of Electricity Billing.
- 5. Calculate the any new adjustment / relief passed by DISCO.
- 6. Billing to Customers as per NEPRA / Govt. notified tariffs and rates.
- 7. Compiling, printing and dispatching of Electricity Bills after receiving of Industrial Estate bill from concerned DISCO.
- 8. Billing is being proceed at-par with NEPRA / Govt. notified tariffs and rates through Power Information Technology Company (PITC) on Integrated Billing System (IBS).

COLLECTION PROCEDURE

- 1. Mode of Payment:
 - i. Cheques
 - ii. Pay order
 - iii. IBFT
 - iv. RTGS
 - v. Online Transfer
 - vi. Cash (No cash payment received at BOM Customer deposits cash directly into the Bank)
- 2. Customer approached One-Window for deposit of bill.
- 3. SIE representative enter bill number in software.
- 4. Confirm the title, enter instrument number / date.
- 5. System generated receiving provided to customers.
- 6. It is mandatory for customer who deposits bill through IBFT, RTGS to get system generated receiving.



ABILITY TO ACCESS CONSUMER METERING SYSTEMS AND OTHER SERVICES/EQUIPMENT.

Meter reading of all the consumers of PIEDMC is carries out on a routine basis each month to record the consumption during a given period (billing cycle/billing month). The meter reading is generally taken/recorded by the concerned staff of PIEDMC (Meter Inspector, Meter Reader). For the purpose, the consumers of each sub division into a number of batches and sub-batches. The meter reading program shall be prepared in such a way that the meters of a batch are normally read on the same dates each month.

To ensure the proper billing to consumer of industrial estate, all energy meters will be purchased from the WAPDA approved manufacturers who will ensure the accuracy of these meters. Moreover, the testing and calibration of purchased Energy meters will be performed from concerned DISCO at the cost of consumer before energization/Installation of Energy meters.

Designation	Load	Type of connection	Type of Meter	Meter Accuracy Class
Meter Reader	Upto 50 KW.	Temporary	Whole Current Energy Meter	1
Meter Reader	Upto 25 KW.	Permanent	AMR Meter	0.5
Meter Inspector	Above 25KW to less than 500KW.	Permanent	AMR Meter	0.5
Assistant Manager(O&M)	500KW and Above.	Permanent	AMR Meter	0.2

Meter readings of all types of connections are as under:

Taking snapshots of meter readings of all consumer categories is mandatory. Meter readings are taken through mobile snapshots/hand held units to ensure correct readings. The snapshots of meter reading including Net Metering facility wherever applicable showing import and export units are printed on electricity bill. PIEDMC shall make available record of snapshots for twelve months for presenting before concerned DISCOs, NEPRA or any other competent forum if required for settlement of billing dispute, raised by any consumer.

Meter Readers shall also check the irregularities/discrepancies in the metering system at the time of reading meters / taking snapshots and report the same in the reading book/discrepancy book or through any other appropriate method as per the practice. The concerned officer/official will take corrective action to rectify these discrepancies.

PIEDMC install back-up meter on all industrial connections having sanctioned load of 25KW and above on request of the consumer. The cost will be borne by the consumer if meters provided/arrange by PIEDMC on consumer's request. In case of any defect in the billing meter, the back-up meter will be converted into billing meter and the bill shall be charged on the basis of the consumption recorded on the back-up meter. Upon replacement of the impugned meter, the same will be treated as back-up meter.



PIEDMC will be also adopted GSM Based Energy Meter in their Industrial Estates (Already adopted in Sundar Industrial Estate). It reduces human intervention required in keeping track of the total power consumption of the users. An SMS is sent directly to the user indicating the consumption and bill without the need of any individual from the Electricity Department to physically visit the site to note down the readings by the use of GSM module. This automation not only reduces the labor cost but also makes the system more efficient and accurate.



BASIS OF COMMON SERVICES FOR COMMERCIAL AND RESIDENTIAL CONSUMERS AND THEIR ALLOCATION THEREOF:-

1. ELECTICAL CONNECTIONS

PIEDMC provide temporary and permanent electrical connections to Resident Industrialists for construction and operation purpose. A temporary electric connection or any other emergent requirement of temporary nature will be given to consumer on first stage. A temporary electric power supply connection for the construction shall be provided by PIEDMC initially for a period of six months which is further extendable on three months basis up to connection of the specific job/project for which the temporary connection was obtained. The sanctioning officer ensured that the temporary connection is utilizing for temporary purpose only. After the construction work has been completed at site, the permanent connection will be given to resident industrialist basis upon their load requirement on different Tariffs as per kind of connection.

One window Operations are established in PIEDMC offices wherein all types of application

for connection are received from the consumers who are given acknowledgement of the

same.

2. <u>PROVIDING THE RING MAIN SYSTEM TO ENSURE THE</u> <u>SUSTAINABILITY AND RELIABLITY OF THE POWER SUPPLY TO</u> <u>CONSUMERS.</u>

PIEDMC provide the ring main system to ensure the sustainability and reliability of the power supply to their consumers. In ring main system, one ring network for load point is fed by more than one feeder and also connected with express feeders (back up feeder). In this case, if one feeder is under fault or maintenance, the ring distribution is still intact by other feeders or express feeder connected to it. In this way, the supply to the consumers is not affected even when any feeder becomes out of service.

3. <u>PREVENTIVE/SCHEDULE MAINTENANCE</u>

To keep the electrical power system in safe, stable and reliable operating condition, it is necessary that the system should be operated and maintained properly to retain its each component in or restore it to a state in which it can perform a required function.

Hence, the preventive maintenance is used to be carried out in accordance with an established time schedule.Scheduled maintenance covers all measures aimed at retaining the design state of the technical equipment belonging to a system and may take place as and when required or in regular/fixed interval of time.



Scheduled maintenance includes such activities as cleaning and washing, conservation, lubrication and where necessary amending or replacing parts subject to wear and tear. Scheduled maintenance also involves preparation of maintenance schedules, carrying out the specified work and dealing with feedback relating to this work. It is worth mentioning that an effective preventive maintenance program always minimizes emergency maintenance breakdowns and damages of infrastructure / grid station equipment.

4. TROUBLE SHOOTING/NON-SCHEDULED MAINTENANCE

PIEDMC is doing the Non-scheduled or corrective or emergency maintenance is often not in accordance with an established time schedule and usually needs as result of malfunction or unexpected defect. Non-scheduled maintenance covers all measures aimed at restoring the designed state of the technical equipment belonging to a system. Repair work and part replacement are typical types of corrective maintenance. It also involves planning, handling requests for performing/checking and evaluating the necessary measures (functional tests etc.). To identify the fault in case of Power Failure, the troubleshooting is done through test instruments and corrective measurements which can be used to help narrow the problem area and identify the problem components. Once the equipment is repaired/replaced, the power is restored.

5. COMPLAINT HANDLING

The compliant in respect of electric supply failures, quality of poor, meter reading and billing, and other matters relating to supply of electric power services has been handled by PIEDMC expeditiously (usually every compliant regarding restoration of power supply is attended within 20 Minutes). One window Operations are established in PIEDMC offices wherein all types of complaints are received from the consumers who are given acknowledgement of the same with definite dates for their replies according to time frame for handling and redressal of such complaints. These complaint offices shall work on 24-Hours basis even during holidays. The working of these complaints is to be supervised by higher officers of Electrical Department PIEDMC. The Customer Feeder back is also monitored and their grievances are readdressed as well.

6. ENSURE THE QUALITY POWER SUPPLY AS PER NTDC/NERPRA: -

To provide uninterrupted power supply to customers enabling trade and industry, educational & social activities to flourish and enrich the Consumers, PIEDMC ensure the Standard Quality power supply parameters as per NTDC/NEPRA. The parameters of electricity are maintained as per NTDC/NEPRA permissible limit of Voltage, Frequency and Power to ensure the quality of power to be supplied.



7. <u>CONSTRUCTION OF OWN GRID STATION FOR ENSURING QUALITY</u> <u>POWER SUPPLY</u>

Having the status of on point bulk supply consumer, PIEDMC construct own 132KV Grid Station in every industrial estate to cope with the increasing load demand and provide quality electricity to resident industrialist with lesser power outages, and reduce line losses likely less than 2%.

8. ESTABLISHING THE ALTERNATE SOURCE OF POWER:-

PIEDMC try to establish the alternate source of power through independent power producers by doing power purchase agreement as a long term and short term solution of Energy Short fall as well and to supply continuous electricity to Industrial Estates. This effort is to increase the industrialization and make the availability of 24HRS electricity.



GRANT OF LICENSE



E-STAMP

(1841 B. B. W.B. II. MILLING, C. B. MILLING, C. MILLING, S. MILLING, S. MILLING, S. MILLING, S. MILLING, S. MI		
ID :	PB-LHR-89148A63F58EEDF5	
Туре:	Low Denomination	
Amount :	Rs 100/-	E1449 CH2476 S19729
Description :	AFFIDAVIT - 4	
Applicant :	Ali Muazzam Syed[35202-8279686-3]	
S/O :	Aslam Bahar Syed	
Address :	Lahore	
issue Date :	25-Jul-2022 5:21:11 PM	
Delisted On/Validity :	1-Aug-2022	1
Amount in Words :	One Hundred Rupees Only	TULLAH KAN
Reason :	Affidavit	GAN DIAL USA
Vendor Information :	Asad Hussain PB-LHR-434 Sundar Road Mall	NT NT



چوبدری ایسوی ایش بن اشطا افروش اذامل جاتی عمره روز ال مرد

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

AFFIDAVIT OF MR. ALI MUAZZAM SYED, CEO OF PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY (PIEDMC)) UNDER REGULATION 3(4)(g) OF NATIONAL ELECTRIC POWER REGULATORY AUTHORITY LICENSING (APPLICATION, MODIFICATION, EXTENSION AND CANCELLATION) PROCEDURE REGULATIONS, 2021

I hereby undertake that Punjab Industrial Estate Development and Management Company (PIEDMC) applied to NEPRA for grant of distribution license under NEPRA licensing regulation for the following industrial estates:

- Sundar Industrial Estate on April 4, 2011 for Distribution license and March 26, 2019 for Power Supplier License.
- Bhalwal Industrial Estate on October 17, 2016.
- Rahim Yar Khan Industrial Estate on October 17, 2016.
- Quaid-e-Azam Business Park on November 22, 2016.
- Vehari Industrial Estate on December 21, 2021

I also undertake that the above mentioned applications had been submitted to NEPRA but were returned by NEPRA in light of judgement dated July 8, 2021 of the Islamabad High Court due to which NEPRA had decided not to entertain applications for grant of distribution/supplier licenses till the expiry of the existing distribution licenses of DISCOs and notification of the rules and regulations as per NEPRA Amended Act, 2018.

Therefore, I hereby undertake that PIEDMC has not been granted any other license under the act.

I, the above named deponent, do hereby solemnly affirm and declare on oath that the contents of this application and affidavit are true and correct to the best of the deponent's knowledge and belief and nothing has been concealed therein.



VERIFICATION:

Verified on oath at Lahore on this the 26 day of July, 2022 that the contents of the above affidavit are true and correct to the best of the deponent's knowledge and belief and nothing has been concealed therein.



(Company Seal)