



PUNJAB INDUSTRIAL ESTATES

DEVELOPMENT AND MANAGEMENT COMPANY

A Company setup under Section 42 of the Companies Ordinance, 1984 (now Companies Act, 2017)



PIE/BIE/NEPRA/1562
29th June 2022

To,

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

Subject: **APPLICATION FOR POWER SUPPLY LICENSE FOR PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY (PIEDMC) OWNED BY GOVT. OF PUNJAB AT BHALWAL INDUSTRIAL ESTATE.**

Dear Sir,

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 104th BOD Meeting dated 21st July 2016, to apply to National Electric Regulatory Authority, Islamabad, for the grant of Distribution License to the Punjab Industrial Estates Development and Management Company (PIEDMC) Govt. of Punjab at its Bhalwal Industrial Estate.

Please find the attached application as per SRO No. 760(I)/2021 dated June 17th, 2021 for obtaining the Electricity Power Distribution License for the Punjab Industrial Estates Development and Management Company (PIEDMC), at its industrial estate located in Bhalwal, Punjab.

A cross cheque in the sum of Rs. 1,706,451/- being the 'Non-refundable License Applicant Fee also attached here with this application.

The application may please be processed at your end for the early issuance of Power Distribution License for PIEDMC at its Bhalwal Industrial Estate.

Thanking you and best regards.

DA/As above:

(ALI MUAZZAM SYED)
CHIEF EXECUTIVE OFFICER

Copy to:-

1. The Chairman, PIEDMC.

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PUNJAB INDUSTRIAL ESTATES DEVELOPMENT & MANAGEMENT COMPANY (PIEDMC)



Head Office:

Commercial Area (North), Sundar Industrial Estate,
Sundar-Raiwind Road, Lahore.

Tel :- 042-35297203-6 Fax :- 042-35297207

City Office:

27-Egerton Road, 3rd Floor Ajmal house, Adjacent Hotel Holiday

Tel :- 042-99203661-3 Fax :- 042-99203660

URL: www.pie.com.pk, Email: info@pie.com.pk



PIEDMC INTRODUCTION

Punjab Industrial Estates Development & Management Company (PIEDMC) is a Company setup under section 42 of the Companies Ordinance, 1984(now Companies Act, 2017). PIEDMC is an autonomous, not for profit entity owned by the Government of Punjab and is run by a Board of Directors (BOD) comprising of private sector industrialists and ex-officio members. PIEDMC is a successful example of Public Private Partnership.

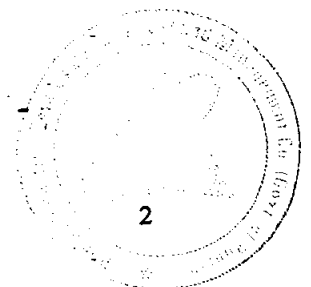
The Government of Punjab has set up Punjab Industrial Estates Development and Management Company (PIEDMC) Ltd. to achieve orderly, planned and rapid industrialization of Punjab by developing a chain of industrial estates in a dynamic and innovative manner, this aims at providing turnkey solutions to the problems by prospective entrepreneurs.

PIEDMC is led by private sector so that it can be more flexible, able to respond to the changing environment and designed to be financially self-sustainable in order to maintain desired impetus or developmental works.

The organization consists of a central board of Directors consisting of 15 members from private sector representing different sectors of economy and from most of the regions of Punjab, further each Industrial Estate has its own board of management which identifies their requirements for the type of industries and its supporting requirements so that they can be consolidated, value addition increased and over heads reduced.

PIEDMC Objective:

- a) To provide international standard state of the art infrastructure.
- b) Promote rapid industrialization
- c) Enforcement of environmental compliance.
- d) Push for sustainable GDP growth
- e) Bring least developed areas into main stream
- f) Creation of employment opportunities



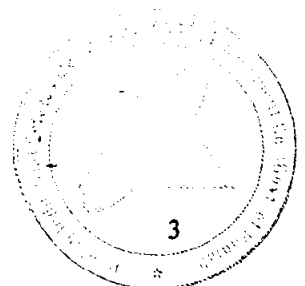
- g) Provision of electricity, gas, power plant, CETP and security
- h) Up-gradation of existing parks/clusters
- i) Foreign collaboration to attract FDIs
- j) Ensure efficient, cost effective and sustainable management of industrial estates.
- k) To enact on "One Window Operation" by providing utilities and services to Industrial estates.

PIEDMC Projects:

- i. Sundar Industrial Estate at Sundar, Lahore (2,000 Acres)
- ii. Up-gradation of Quaid-e-Azam Industrial Estate at Lahore (565 Acres)
- iii. Up-gradation of Multan Industrial Estate Phase-I (743 Acres)
- iv. Development of Multan Industrial Estate Phase-II (667 Acres)
- v. Development of New Industrial Estate at Rahim Yar Khan (456 Acres)
- vi. Development of Bhalwal Industrial Estate Sargodha (427 Acres)
- vii. Vehari Industrial Estate (350 Acres)
- viii. Quaid-e-Azam Business Park, Sheikhupura (1800 Acres)
- ix. Bahawalpur Industrial Estate (500 Acres)

PIEDMC Upcoming Projects:

- i. Sialkot Industrial Estate
- ii. Muzafargarh Industrial Estate
- iii. Gujrat Industrial Estate.
- iv. Leather Industrial Park at Sua Asil (Distt. Kasur).
- v. D. G. Khan Industrial Estate.
- vi. Okara Industrial Estate.
- vii. Bahawalpur Industrial Estate

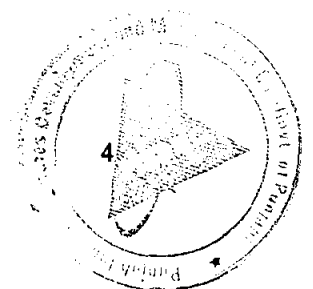


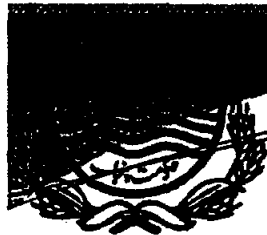
PIEDMC Mission:

To develop a chain of industrial estate in a dynamic and innovative manner by capitalizing on proposed and existing industrial and agricultural strength of Punjab while keeping the cultural strengths and heritage of various districts.

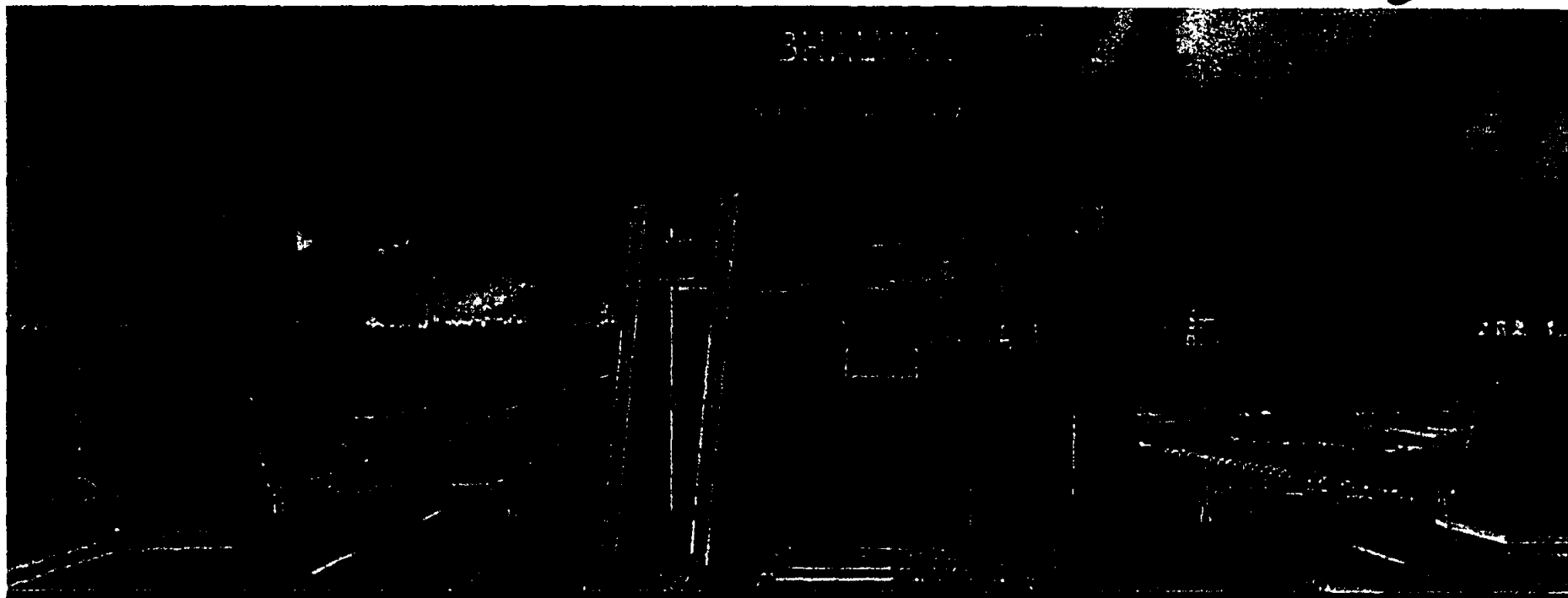
Types of Industries at PIEDMC Industrial Zone

- Pharmaceuticals
- Food Processing
- Engineering.
- Textile / Garments.
- Apparel
- Carpet
- Packaging
- Paper and Board
- Plastics
- Electronics
- Chemicals
- Paints
- Steel
- Auto parts.
- Wood products
- Shoe manufacturing
- Warehouse etc.





BHALWAL INDUSTRIAL ESTATE (BIE) SPECIAL ECONOMIC ZONE (SEZ)

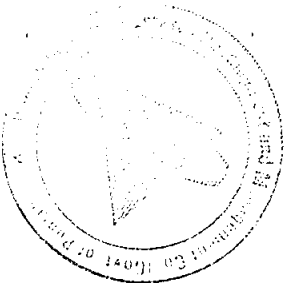


**BHALWAL
INDUSTRIAL ESTATE**



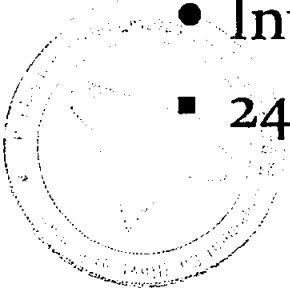
Project Salient Features

- Stimulate the innovation generation and upgrade of several kind of industries in Punjab province.
- Bhalwal Industrial Estate (SEZ-Zone), with its related land uses, is planned as a functional & mutually compatible arrangement, easily accessible through efficient road network allowing free flow of traffic.
- Provide adequate safety standards (fire etc.)
- Provision of amenities including administration building, bank facility, large teaching hospital, emergency 1122, Fire brigade, food areas, truck parking, parks, commercial areas, vocational training center, computerized weigh station, petrol pumps, restaurants and Jamia Mosque etc.
- Compliance with environmental regulations.



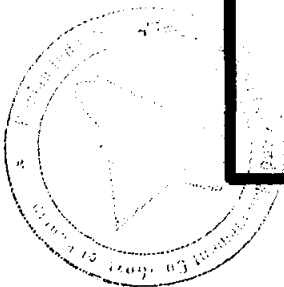
Project Salient Features

- Connected with Salim Interchange on M2 and easy access of link roads
- Infrastructure designed by Renowned Consultants 'M/s EA'
- Project duly approved by Environment Protection Agency (EPA)
- Central Combined Effluent Treatment Plant (CETP)
- SEZ Facilitation Centre in collaboration with PBIT/SEZA Punjab (One Window Facility)
- Dedicated Grid Station 132 KV, Gas Supply and underground electricity cabling
- Shopping Arcades, Hotels, Banks, Truck Parking Areas
- Amenity Area / Food Courts, Community Centre
- International Apparel University designed by 'CNTEX China'
- 24 - hour Emergency Centre, Mosque & Hospital (Burn Unit)



Project Key Features

- Regular Plots easy to divide or combine to meet different requirements with sizes of Factory building of enterprises, different functional requirements, easy to sale.
- The road network is reasonable, to meet the needs of transport and the laying of underground pipelines , such as water supply, drainage lines and firefighting.
- Regular Plots enable the high efficiency of land use , the proportion of total salable lands reaches 70% .
- Large enterprises arranged at M2 side, better demonstration towards the outside, whose logistics needs are also effectively met.
- All functions of the apparel park are available
- A good layout as it is, the total area of green land is rather small but well distributed over the whole BIE area.
- More entrances lead to better logistics , but meanwhile it increases the workload of security check



BHALWAL INDUSTRIAL ESTATE			
SPECIAL ECONOMIC ZONE (SEZ)			
PROPOSED INVESTMENT			
SR.#	DESCRIPTION	AMOUNT (MILLION RS.)	REMARKS
A-	<u>Proposed Investment</u>		
1.0	Amenities area development (Construction of Jamia Masjid, Rescue Station 1122, Food Court, Bank etc)	450.00	Under Planning stage
2.0	Balance Infrastructure Works	414.00	Balance Works of Boundary Wall, Security Surveillance, Drainage Works etc.
3.0	Construction of Internal Sui Gas Network	100.00	
	Total (A)=	964.00	
B-	<u>Investment already Incurred</u>		
4.0	Land	138.97	
5.0	External Development	78.00	
6.0	Internal Development	1,724.20	Road Network, Sewerage and Water Supply Network, Internal Electrical Network etc
7.0	Electrical Infrastructure	80.40	
8.0	Grid Station (132 KV)	506.50	Paid to FESCO
9.0	External Sui Gas Network	400.50	
10.0	Consultancy	24.00	
11.0	Operational Cost	183.60	
	Total (B)=	3,136.17	Breakup attached
	Grand Total (A+B)=	4,100.17	
		Million	



CERTIFICATE OF INCORPORATION

No. 41/379 of 200 - 200

I hereby certify that "PUNJAB INDUSTRIAL ESTATE
DEVELOPMENT AND MANAGEMENT COMPANY, "13-PANE ROAD, LAHORE."

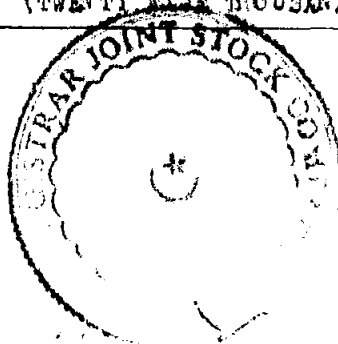
is this day incorporated under the Companies Ordinance of
1984, and that the company is limited by Guarantee without addition
of the word "Limited" to its name.

Given under my hand at LAHORE

this 18TH day of SEPTEMBER, 2003.

Two Thousand THREE

Fee: Rs. 25,000/- (TWENTY FIVE THOUSAND ONLY).



(Signature)

(ATIQ-UR-REHMAN)

District Officer

For Registrar

Joint Stock Companies

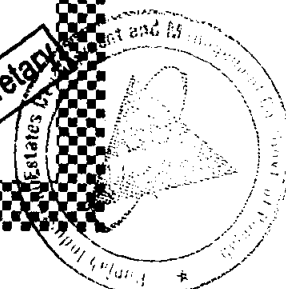
CITY District Government.

Lahore.

No. SP/1251/L/S/2003/537
Dated. 18.09.2003

ATTESTED TO BE TRUE COPY

PUNJAB INDUSTRIAL ESTATE
DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY: GOVT. OF PUNJAB



Certificate for Commencement of Business

(Pursuant to section 146 of the Companies Ordinance, 1984)

Certified that the FUTAL INDUSTRIAL ESTATE DEVELOPMENT AND
MANAGEMENT COMPANY, 13- LANE ROAD, LAHORE.

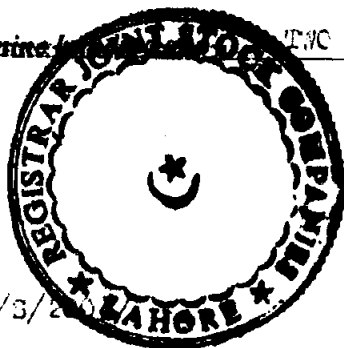
Which was incorporated under the Companies Ordinance, 1984, on the 18th
day of SEPTEMBER, 2003

and which has this day filed a duly verified declaration in the Prescribed form that the
conditions of section 69 and 146 of the said Act, been complied with, is entitled to
commence business.

Given under my hand at LAHORE

This 31st day of JAN 2004

~~Carthous submit~~ TWO THOUSAND FOUR.



IC.RE/1251/I/3/2004

Dated:-3.1.2004.

(ATIQ-UR-REHMAN)

DISTRICT OFFICER

ENTERPRISE & INVESTMENT PROMOTION

LAHORE

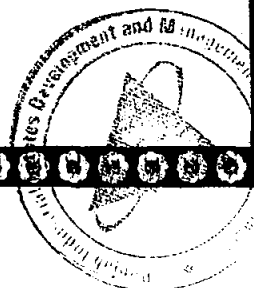
FOR JOINT STOCK COMPANIES

LAHORE REGION.

ATTESTED TO BE TRUE

FUTAL INDUSTRIAL ESTATE DEVELOPMENT AND
MANAGEMENT COMPANY
OWNED BY: FUTURE PROMISE

Company Secretary



(THE COMPANIES ORDINANCE, 1984)

A COMPANY LIMITED BY GUARANTEE
HAVING A SHARE CAPITAL

Memorandum

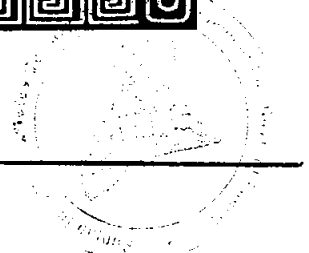
and

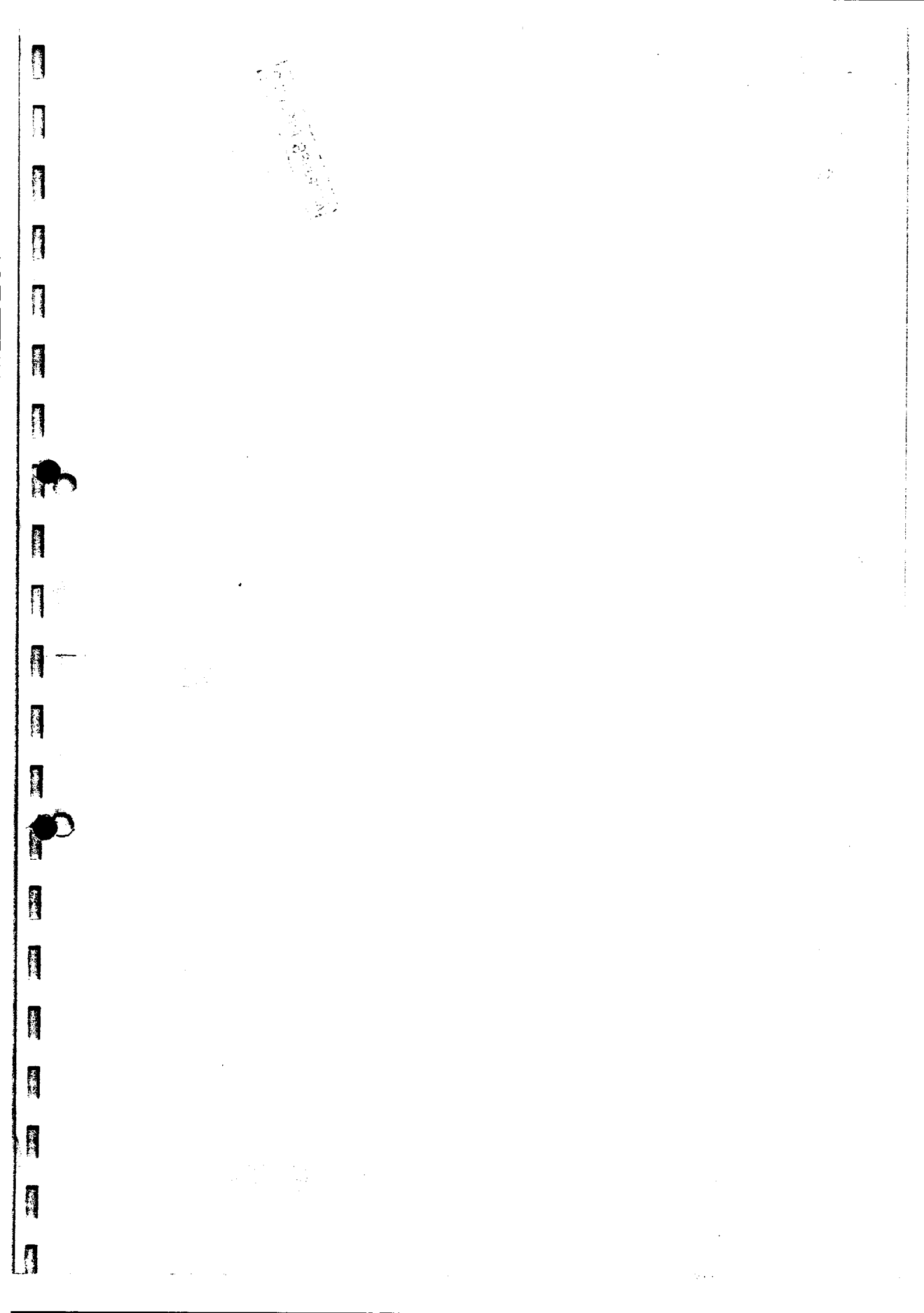
Articles of Association

of

PUNJAB INDUSTRIAL ESTATE DEVELOPMENT
AND MANAGEMENT COMPANY

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PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY GOVT.
Company Secretary





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

OF

PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY

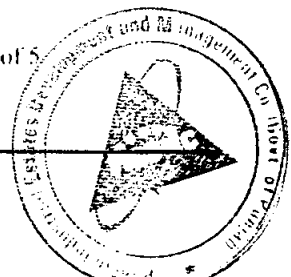
1. The name of "The Company" is Punjab Industrial Estate Development and Management Company, having a share capital, (hereinafter referred to as "The Company").
2. The registered office of "The Company" shall be situated in the Province of the Punjab, city of Lahore.
3. "The share capital of "The Company" will be as follows:
 - (i) Authorized Capital Rs.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 Ordinary Shares of Rupees Ten (10) each.
4. The objects for which "The Company" is established are as follows:
 - i. "The Company" is an association of non profit organization, within the meaning of section 42 of the Companies Ordinance 1984 and is being formed as a public company;
 - ii. 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

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**PUNJAB INDUSTRIAL ESTATE
DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY: GOVT. OF PUNJAB**

Company Secretary

Page 1 of 5



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

- iv. 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 generation/distribution/transmission/purchase/sale and/or any other purpose deemed expedient for the fulfilment of the objects of the Company, and/or to co-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 ancillary services for the units established or to be established within the Industrial estate(s);
- x. To generate eclectic 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;
- xii. to identify the environment preservation requirements for the benefits of the Industrial Units;
- xiii. to create zoning restrictions within the Industrial Estate(s);

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PUNJAB INDUSTRIAL
DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY GOVT. OF PUNJAB

Company Secretary

- 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 attract 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 account(s) and to draw, make, accept, endorse, discount, execute and issue promissory 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;
- xxv. 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

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Company Secretary

Page 3 of 5

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 personal or 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 any 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 or 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

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PUNJAB HINDU TRUST ESTATES
DEVELOPMENTAL & WELFARE COM.
OWNED BY GOVT. OF PUNJAB

Company Secretary

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" generating fee and that no remuneration shall be given by "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, Lahore Region.
8. Patronage of any government or authority, express or implied, shall not be claimed unless such government or authority has 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 debts 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).

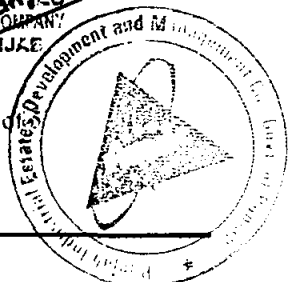
If the total sum required on winding up for payment of the debts and liabilities of "The Company" and of the said costs and expenses shall be less than Rs.1000.00 then the Member shall contribute thereto in proportion to their maximum specified liability.

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.

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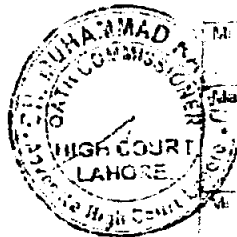
PUNJAB INDUSTRIAL ESTABLISHMENT
DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY GOVT. OF PUNJAB

Page 5



We, the several persons, whose names and addresses are hereunder subscribed, are desirous of being formed into a Company in pursuance of this Memorandum of Articles of Association.

Name and surname (present and former in full and block letters)	Father's/husband's name in full	Nationality/former Nationality	Occupation	Residential address in full	Signature
Muhammad M. Syed	Syed M. Musa	Pakistan	Engineer	71-S, Defence Phase II, Lahore Cantt.	[Signature]
Mr. Fayez Bashir	Bashir Ahmad	Pakistan	Secretary Industries, Commerce & Investment	7-Akbar Road, GOR, Lahore	[Signature]
Mr. Khawaja Muhammad Owais	Khawaja Khuda Bakht	Pakistan	Industrialist	House No. 2, Near Colony, Kashina District, Lahore	[Signature]
Mr. Sajjad Mustafa Khan	Bashir A. Khan	Pakistan	Chairman ICVTA	House No. 30-D, Garwal Road, Lahore Cantt., Lahore	[Signature]
Mr. Sohail Chohan	Dr. M. A. Chohan	Pakistan	Engineer	House No. 16, St. No. 62, Sector 77B, Islamabad	[Signature]
Mr. Faris Hyder	Dr. S. M. Hyder	Pakistan	Businessman	House No. 141, Gulberg II, Lahore	[Signature]
Mr. Syed Nazeer Hashmi	Syed Quswat Ali Shah	Pakistan	Chief Executive Thermoseal Industries (Pvt.) Ltd. Chief Executive Comfort Footwear (Pvt.) Ltd.	House No. 154, Feroze Road, Township, Lahore	[Signature]
Mr. M. Khattar	Hafiz Bakht Ali	Pakistan		46-C, Gulberg II, Lahore	[Signature]
Major (R) Shah Nawaz Badar	S. M. Badar	Pakistan	Secretary Labour and Human Resources	House No. 85 GOR-III, Shadman, Lahore	[Signature]
Mr. Kamran Lashari	Sardar Abdul Majid Khan Lashari	Pakistan	Secretary Environment Protection	House No. 224 F-10/3, Islamabad	[Signature]
Mr. Zahoor Ahmad Khan	Nasir Ahmad Khan	Pakistan	Engineer	House No. 16, Fatah Sagar Road, Motlagh, Lahore	[Signature]
Dr. Faisal Bari	Abdul Bari	Pakistan	Economist	122-R, Phase-I, Lahore	[Signature]
				House No. 29 Chaudh Road, Karachi, Market of Saddar Bazar, Lahore	[Signature]



Witnessed the _____ day of _____

WITNESS TO ABOVE SIGNATURES

Full Name _____

Father's Name _____

F. Address _____

Nationality _____

ATTESTED

Signatures: M. M. HAMID R. USMAN
OATH COMMISSIONER
Associate High Court, Lahore

ATTESTED TO BE TRUE COPY

Company Secretary

PUNJAB INDUSTRIAL ESTATES DEVELOPMENT COMPANY LIMITED

THE COMPANIES ORDINANCE, 1984

ARTICLES OF ASSOCIATION

OF

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".

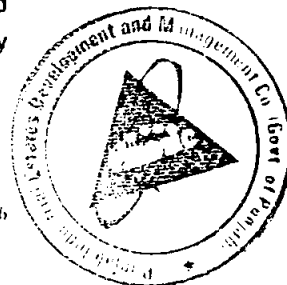
INTERPRETATION

2. The marginal notes hereto shall not affect the construction hereof, and in "These Presents" unless there be something in the subject or context inconsistent therewith:
 - I. "Attorney" includes an attorney duly constituted or appointed under power of attorney or any other authority in writing.
 - II. "Board of Directors" means the Board 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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DEVELOPMENT AND MANAGEMENT COMPANY
CERTIFIED BY GOVT OF PUNJAB

Company Secretary



- 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 Ordinance, 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 "The 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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PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT CORPORATION
CHARTERED BY GOVT OF PUNJAB

Company Secretary

- 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 Company" which shall be provided by the "Government" as follows:
- Authorized Capital Rs. 150.00 Million (Rupees One Hundred and Fifty Million)
 - Paid up Capital Rs. 50.00 Million (Rupees Fifty Million)

The Capital shall be divided into ~~150~~ (105) Million Ordinary Shares of Rupees Ten (10) each. "The Company" may from time to 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.

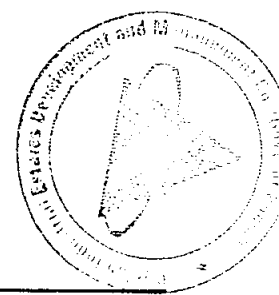
MEMBERSHIP

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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PUNJAB FINANCIAL SERVICES
INCORPORATED IN PAKISTAN
GOVERNMENT OF PUNJAB

Company Secretary



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 may be associated with a voluntary organization or a private individual having record of community service but his/its Membership of "The Company" will be in his/its individual capacity.

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 following events:

- I. On the "Member's" death, resignation, insolvency, lunacy or conviction for an offense involving moral turpitude.
- II. 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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PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT BOARD
OWNED BY GOVT. OF PUNJAB

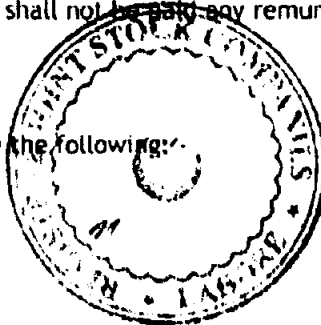
Company Secretary

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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 paid any remuneration or dividend.

OFFICERS OF "THE COMPANY"

17. "The Company" shall comprise the following:
 - I. General Body
 - II. BOD
 - 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

18. 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;
 - c. to consider the balance sheet and audited accounts for the previous year;

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PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT COMPANY
OWNED BY: GOVT. OF PUNJAB

Company Secretary

- d. to consider the annual report prepared by BOD;
- e. 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 holding of the last preceding General Meeting and within four months from the closing of the annual accounts.
- 25. The above named General Meetings shall be called Annual General Meetings. All other meetings of "The Company" shall be called Extraordinary General Meetings.
- 26. BOD may at any time call for an Extraordinary General Meeting and shall, on the requisition of the Members representing not less than one-third of the voting power on the date of deposit of requisition, proceed to 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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BOARD OF INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT CORPORATION
OWNED BY GOVERNMENT OF PUNJAB

Company Secretary

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

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 "Members" of "The Company" present personally, shall be a quorum for a General Meeting for all purposes. 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 a quorum is not present, the meeting if called on the requisition of "Members", shall be dissolved. In any other case, it shall stand adjourned to the same day in the next week at the same time and place, and if at the adjourned meeting, a quorum is not 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

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PUNJAB INVESTMENT AND
DEVELOPMENT CORPORATION
OWNER OF GATE OF PUNJAB

Company Secretary

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 entitled 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 person. 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 in person.

BOARD OF DIRECTORS (BOD)

43. The BOD shall comprise of 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.

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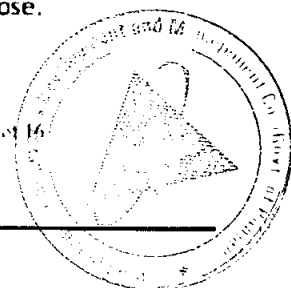
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DEVELOPMENT AND MARKETING
COMPANY LIMITED

Company Secretary

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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.
 - 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 regular meeting and filed in the permanent records of "The Company".
 - Members of BOD shall not receive any compensation for their services to "The Company" and/or any profit out of the business of "The Company".
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.
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 meetings.
52. 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.

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DEVELOPMENT AND INDUSTRIAL ZONES
OWNED AND CONTROLLED BY THE GOVERNMENT
Company Secretary



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*:
- I. 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";
 - V. consider the annual and supplementary budgets placed before it and pass them with such modifications as may be deemed necessary for being submitted to "General Body";
 - VI. prepare annual 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 affairs of the "The Company" and regulate the recruitment and terms 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;
 - X. enter, for and on behalf of "The Company", into agreements including those containing arbitration clauses;
 - XI. establish, maintain, amalgamate 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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PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND
OPERATED BY GOVT. OF PUNJAB

Company Secretary

- 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/maternal/ 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:
- I. coordinating and exercising general supervision over all activities of "The Company"; and
 - II. any other task as may be delegated by BOD.

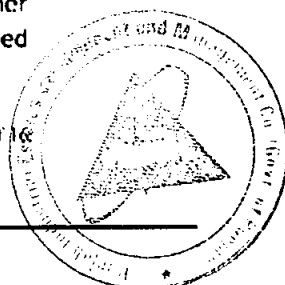
CHIEF EXECUTIVE OFFICER (CEO):

- 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:
- I. 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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CHIEF SECRETARY
INDUSTRIAL AND
DEVELOPMENT
CORPORATION

Company Secretary



- 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 employees of "The Company" in accordance with Human Resource and Administration Policy/Rules or regulations approved by the BOD;
- X. to delegate any of his functions to any officer of "The Company" with permission of the BOD;
- 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";
 - II. borrow and raise resources for "The Company" according to "These Presents";

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REGIONAL INDUSTRIAL
DEVELOPMENT AND
OWNED BY GOVT. OF SINGAPORE

Company Secretary

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 69 supra shall be made out in every year and laid before "The Company" in the Annual 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-sheet and profit and loss 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 entitled 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

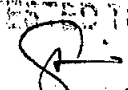
76. The appointment and duties of the auditor(s) shall be regulated in accordance with the "Ordinance".
77. A. "The Company" at each Annual General Meeting shall appoint an auditor(s) being chartered accountant(s) to hold office until the next Annual General Meeting and the following provisions shall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

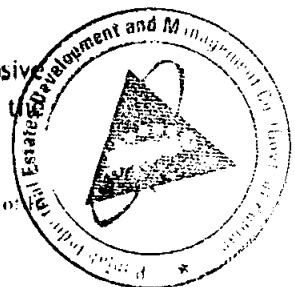
If an appointment of an auditor(s) is not made at an Annual General Meeting, the Securities and Exchange Commission may appoint an auditor(s) as per provisions of the "Ordinance".

- I. 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".

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FORWARD IN COMPANY SECRETARY
DEVELOPMENTAL MANAGEMENT COMPANY
OWLED BY OFFICE OF PUBLIC

- 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.
 - 79. Every auditor of "The Company" shall have a right of access at all times to the books, assets and accounts and vouchers of "The Company" and shall be entitled to require from the members of BOD and officers of "The Company" such information and explanation as may be necessary for the performance of duties of the auditor(s) and auditor(s) shall make a report to Members of "The Company" on the accounts examined by them, and on 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 they have obtained all information and explanations they have required and whether or not in their opinion the balance-sheet, 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 Meeting shall be conclusive except as regards any error discovered therein within three months after the

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 Company Secretary
 THE ESTATE DEVELOPMENT AND MANAGEMENT COMPANY
 INCORPORATED IN INDIA
 OFFICE OF THE REGISTRAR OF COMPANIES
 GOVT. OF PUNJAB



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 and any loss occasioned by any error of judgment, damage or misfortune which may happen in the execution of their duties in connection with affairs of "The Company".

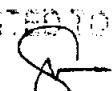
POWER OF GOVERNMENT

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 repealed 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 twenty-one days prior to the meeting.

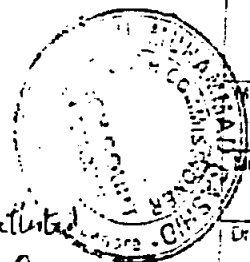

DISTRICT OFFICER (PWW)
For Registrar of Stock Companies
Lahore

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PUNJAB DISTRICT STOCK EXCHANGE
DEVELOPMENT AND UPGRADEMENT COMPANY
OWNED BY GOVT. OF PUNJAB
Company Secretary

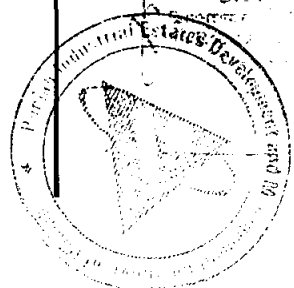
We, the several persons whose names and addresses are hereunder subscribed, are desirous of being formed into a Company in pursuance of these Articles of Association.

Name and surname (present and former in full and block letters)	Father's/Husband's name in full	Nationality/former Nationality	Occupation	Residential address in full	Signature
Monsan M. Syed	Syed M. Mura	Pakistani	Engineer	71-S, Defence Phase-II, Lahore Cantt.	
Mr. Fayyaz Bashir	Bashir Ahmad	Pakistani	Secretary Industries, Commerce & Investment	7-Akbar Road, GOR, Lahore.	
Mr. Khawaja Muhammad Owais	Khawaja Khuda Bashir	Pakistani	Industrialist	House No 2, Nisar Colony Kashina Dastur Lahore	
Mr. Shaukat Mustafa Khan	Bashir A. Khan	Pakistani	Chairman MTA	House No 30-D, Sarwar Road, Lahore Cantt., Lahore.	
Mr. Sabir P. Chohan	Dr. M. A. Chohan	Pakistani	Engineer	House No. 1E, St. No. E3, Sector F7/3, Islamabad	
Mr. Akmal Hyder	Dr. M. M. Nao	Pakistani	Businessman	House No. L-41, Gulberg-I, Lahore.	
Mr. Syed Nadeem Hashmi	Syed Khwaja Ali Shah	Pakistani	Chief Executive Thermosol Industries (Pvt.) Ltd.	House No. 639 Block-3 Sector C-1, Township, Lahore.	
Mr. M. I. Khurram	Ali Barkat Ali	Pakistani	Chief Executive Textile & Apparel Pvt. Ltd.	45-E1 Gulberg-II, Lahore.	
Major (R) Shaukat Saad Bader	S. M. Bader	Pakistani	Secretary Labour and Human Resources	House No. 89 GOR III, Shadman Lahore House No. 224 F-103, Islamabad	
Mr. Hamran Lashar	Sardar Abdul Wajed Khan Lashar	Pakistani	Secretary Environment Protection	House No. 16 Fatch Sher Road Mozang, Lahore.	
Mr. Zaher Ahmad Khan	Naseer Ahmad Khan	Pakistani	Engineer	122-R, Phase 1, Lahore.	
Dr. Faisal Sar	Abdul Sar	Pakistani	Economist	House No 29 Ghez Road, Karachi, Mohallah Saedar Bazar, Lahore	

REGISTERED TO BE FORMED
COMPANY SECRETARY



attested
Chaudhary



Date: the day of

WITNESS TO ABOVE SIGNATURES

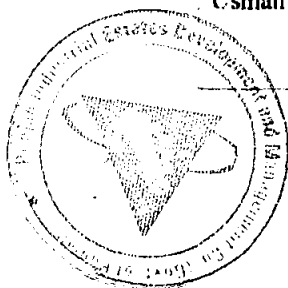
Full Name: Mahamud Ali Khan
Father's Name: Abdullah Khan
Full Address: 100, E-1, LOR, Lahore

Signature:
Occupation: Chairman MTA
Address: 100, E-1, LOR, Lahore

ATTESTED

District Officer,
Enterprises & Investment Promotion
for Registrar Joint

Ali Salman Siddique Chairperson TEVTA	35202-8706528-5	Salman Siddique	96-Gulberg Road, Lahore.	Ex-Officio Director	Pakistani	Private Sector	01-04-2022	Appointed in place of Hafiz Farhat Abbas	Ex-Officio Director
2.2 Ceasing of office/Retirement/Resignation:									
Syed Nabeel Hashmi	35202-5698574-5	Syed Quwat Ali Shah	Thermosole Industries (Pvt.) Ltd. 140 main industrial area, Kot Lakhat, Lahore.	Chairman	Pakistani	Business	12-12-2021	Ceased of office	Independent
Ahsan Mahmood Butt	35201-1606258-9	Asim Hussain Butt	M/s FAS Tube Mills & Engineering, Plot # 457- 460, Surdar Industrial Estate, Lahore.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent
Khawaja Arif Qasim	35202-4601928-1	Sheikh Muhammad Qasim	125-A, Quaid-e- Azam Industrial Estate, Kot Lakhat, Lahore.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent
Syed Tariq Siraj Jafri	35202-2595174-1	Syed Siraj ul Hassan Jafri	68-Block-B, Model Town, Lahore.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent
Usman Aslam Malik	35201-1555409-1	Malik Muhammad Aslam Khan	M/s Koretec Auto Industries, 16 KM, Multan Road, Lahore.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent



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PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT CORPORATION
OWNED BY: GOVT. OF PUNJAB

Company Secretary

Muhammad Anees Khawaja	36302-4648285-3	Khawaja Muhammad Yunus	Mehr Manzil, O/S Lohari Gate, Multan.	Independent Director	Pakistani	Business	12-12-2021	Re-appointed	Independent
Shahid Hussain Tarer	34101-9534689-9	Sadiq Hussain Tarer	House # 12/13, A/2, WAPDA Town, Gujranwala.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent
Dr. Sumaira Rehman	35202-9760853-0	Dr. Ch. Abdul Rehman	Superior University, 17-KM Mian Raiwind Road, Lahore.	Independent Director	Pakistani	Educationist	12-12-2021	-do-	Independent
Shahzad Azam Khan	35202-9862024-7	Muhammad Azam Khan	House # 7/1, Block B, Model Town, Lahore.	Independent Director	Pakistani	Business	12-12-2021	-do-	Independent

- * In the case of a firm, the full name, address and above-mentioned particulars of each partner, and the date on which each became a partner.
- ** In case the nationality is not the nationality of origin, provide the nationality of origin as well.
- *** Also provide particulars of other directorships or offices held, if any."
- **** In case of resignation of a director, the resignation letter and in case of removal of a director, member's resolution be attached.
- ***** In case of a director nominated by a member or creditor the name of such nominating or appointing body shall also be mentioned in column (j), and a copy of resolution from the nominating or appointing body be attached.

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PUNJAB INDUSTRIAL DEVELOPMENT AND MANAGEMENT CORPORATION
OWNED BY: GOVERNMENT OF PUNJAB

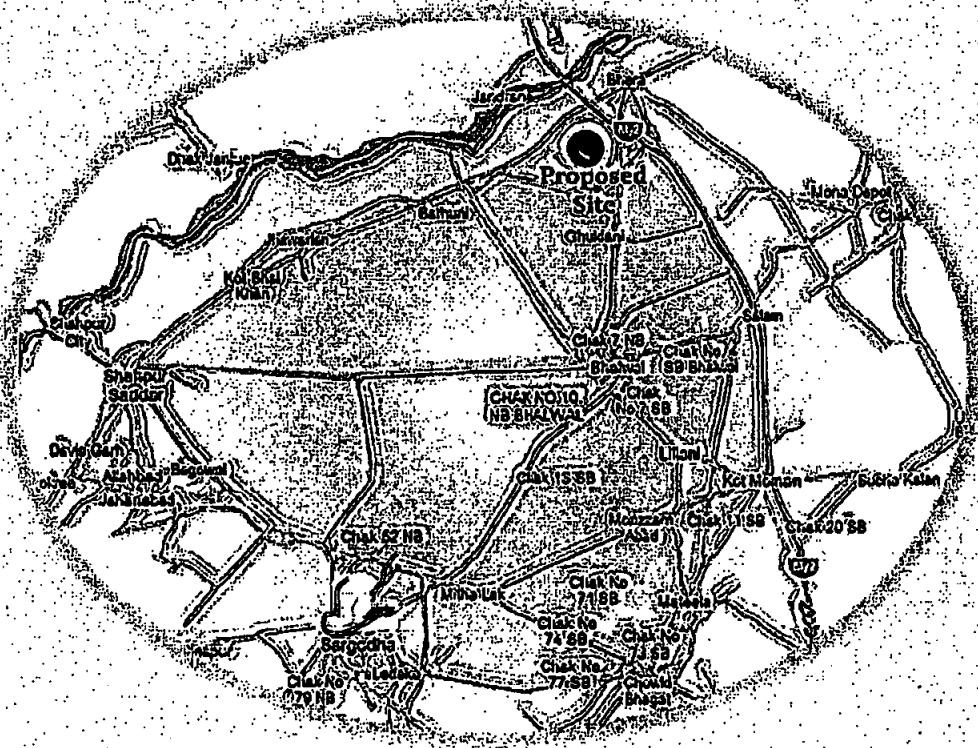
Company Secretary



PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT COMPANY



Electrical Design Report
Bhalwal Industrial Estate
(SEZ - ZONE)



FINAL REPORT

OCTOBER 2012



EA Consulting (Pvt.) Ltd.
Engineering | Architecture | Project Management



SCHEDULE III

Electrical Design Report At Bhalwal

Bhalwal Industrial Estate is located Bhera Road, Bhalwal. The geographical location map is attached.

The Electrification System had been designed by M/S EA, Consulting Engineering Firm duly registered with Pakistan Engineering Council and FESCO / WAPDA. This proposal, prepared by the Consultant, deals with the design aspects of Electrification System and source of Power Supply for the Industrial Estate. The total area of the Industrial Estate is about 427 Acres with Plot sizes ranging from 1/2, 1, 2 Acres. The Current application is for 60 MW.

Project Technical Description

1. Distribution System Configuration, service territory, right of way, feeder maps.

The Distribution system consists of 12 feeders, 10 feeders feeding system in open ring & 2 Nos. feeders are standby express feeders to cater for any emergency. Service territory is Bhalwal Industrial Estate for which land has been acquired and right of way has been procured, FESCO has been approached to PIEDMC to take distribution license / NOC from NEPRA in favor of Bhalwal Industrial Estate for Power distribution within its territory.

2. Voltage Levels and Regulation

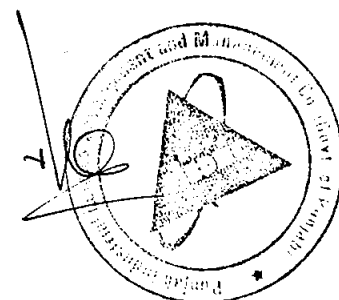
415V LV and 11 KV HV feeders are supplying power to loads as per WAPDA / FESCO standards DDS-71 2004 and P - 13:66 for regulation 2.5%, -5%, -7.5%.

3. Type of Distribution System

'Underground/Over Head Ring Main Cable/Conductor Distribution System' has been laid down providing electricity to all consumers in the premises of Bhalwal Industrial Estate.

4. Line Equipment Characteristics

The State-of-The-Art Equipment for Power Supply' has been selected as designed, like Aluminum (AL), Cross Linked Poly Ethylene (XLPE) armored cables of 500 mm² for HT and AL, PVC cables for LT, ACSR Bear, ACSR Goat and Ant Conductor, 5 Way 11 KV ring main units/switches for connecting feeders & Pad Mounted Transformers of capacity 500 KVA. The under-ground cable structure is good enough up-to 80 MW.



5. Power Quality Control

In Bhalwal Industrial Estate, 132 KV grid station within Bhalwal Industrial Estate is being made through M/S Barqaab Pvt Ltd Lahore (WAPDA/FESCO approved consultant) which insures the quality power. Also all the equipment is placed in 'Insets' along the boundary wall of the Industrial Units and underground Power Supply Lines to insure good quality control on the delivered Power. PIEDMC will do the O&M for the Distribution System at BIE and the electric system will be operated by PIEDMC, the O&M through a 'Central Operation Room' where all 'Open Points' of feeders & day-to-day changes in their positions are marked. The Manager Electrical along-with his team supervise the overall operation of the system. The electrical team will issues all the work orders for any electrical work. No work on any equipment is allowed, for the Distribution System without proper pre-arranged shut down. Safety measures are ensured by providing earthing of the equipment and issuance of PTW (Permit to Work) that is coordinated by the Chief Engineer Electrical PIEDMC.

Back up / Express feeder provision

Two 11 KV feeders have, been constructed to be used as backup/ express feeders (See the attached drawings) in case of main feeders' failure.

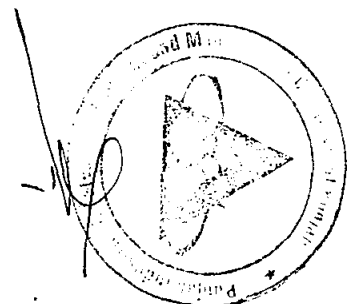
7. Accident protection / prevention procedures

A well experienced and educated distribution staff has been hired by PIEDMC, who are working under well-qualified supervisors on three (3) shifts per day basis. Proper use of protective gears by staff and hanging / displaying of warning signs are ensured at two tiers-one by RIE electrical team second ensured by CE Electrical PIEDMC. The task risk analysis and detailed procedure have been prepared by the Consultant and adopted by the P I E D M C for its line staff.

8. Maintenance Plans and Procedures

Routine maintenance of equipment is carried out by Bhalwal Electrical team after a work order is issued by the approval of CE Electrical PIEDMC as per manufacturer's recommendations. Maintenance charts for each equipment are maintained and updated on regular basis. The procedure has been developed by the qualified consultant as per International standards and maintenance practices.

'Earth Fault Indicators' have been installed in FESCO area to help in quick identification and then isolation of faulty portion. Cable Fault Localization Equipment has been procured by the PIEDMC for finding the fault to help



In early repair where a work order is raised by the RIE electrical team accomplishes the same. The troubleshooting procedures have been developed as per international standards.

9. Fault location / trouble shooting procedure

At each ring main station earth fault indicators have been installed which indicate any cable fault in the respective section, then the exact fault point will be located through standard fault locators and faulty cable will be repaired. This procedure has minimized the power outage time.

10. Emergency Provisions

To cater for emergency express/ back up feeders have been provided, sufficient spares and Line Material is available with the RIE Store in inventory procured and provided by the PIEDMC.

11. Patrolling and Inspection procedures

The PIE electrical staff at BIE patrol the area and carry out visual inspection of equipment for any physical damage or fault and reported to Central Operation Control Room. The same then is handed over to the required staff to do the needful under the supervision of qualified Supervisors. For this purpose, proper procedures have been prepared and implemented.

12. Customer services data / manuals

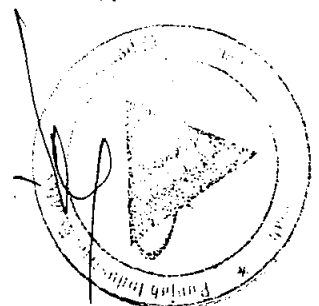
Separate Customer Services Section is taking care of all the requirements from the time of Customers' complain regarding electricity Applications for power supply till the electric connection is provided. The idea of 'One Window Services' has been adopted in its true spirit.

13. Billing and collection procedures

The meter readers of BIE will take the readings and record the KWH energy meter on 01st of each month as the date fixed by the PIEDMC Electrical Department with the help of 'PIE Chief Financial Controller'. Bills will properly be distributed and the consumers will deposit the dues in the designated bank or PIE finance section up to 10th of every month.

14. Protection, Control & Measuring Instrument

Sensitive earth fault and overload protection relays have been provided on each 11KV Feeder at BIE Grid Station. Where in all individual pad mounted distribution transformers are fuse protected. The active power meters, energy



meters, ammeters, Volt meters have been installed at Individual 11KV Electrical feeders. All the distribution ring mains are fuse protected.

15. Metering and Testing Facilities

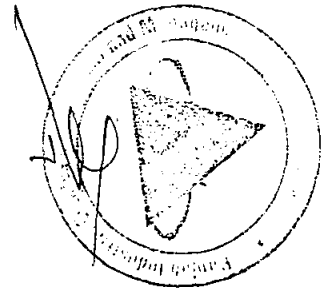
Meters are provided by the PIEDMC electrical section after the same are tested / certified for accuracy. However, the doubtful meters are tested at site with testing equipment. In case of any dispute with the customer indigenous laboratory or M&T Wapda for testing is utilized. The factory tested and calibrated standard energy meters are installed at each individual consumer premises that are tested as per manufacturer's recommendation for routine testing or on the complaint/dispute with the consumer/s.

16. Communication System

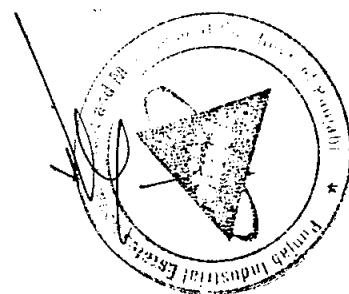
Communication between Central Control / Operation Room and the field staff has been established through "cell phones" and walkie talkies.

17. Training and Development

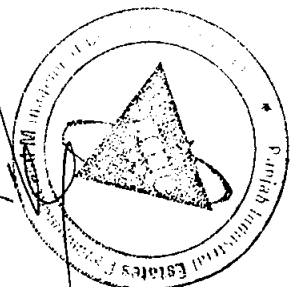
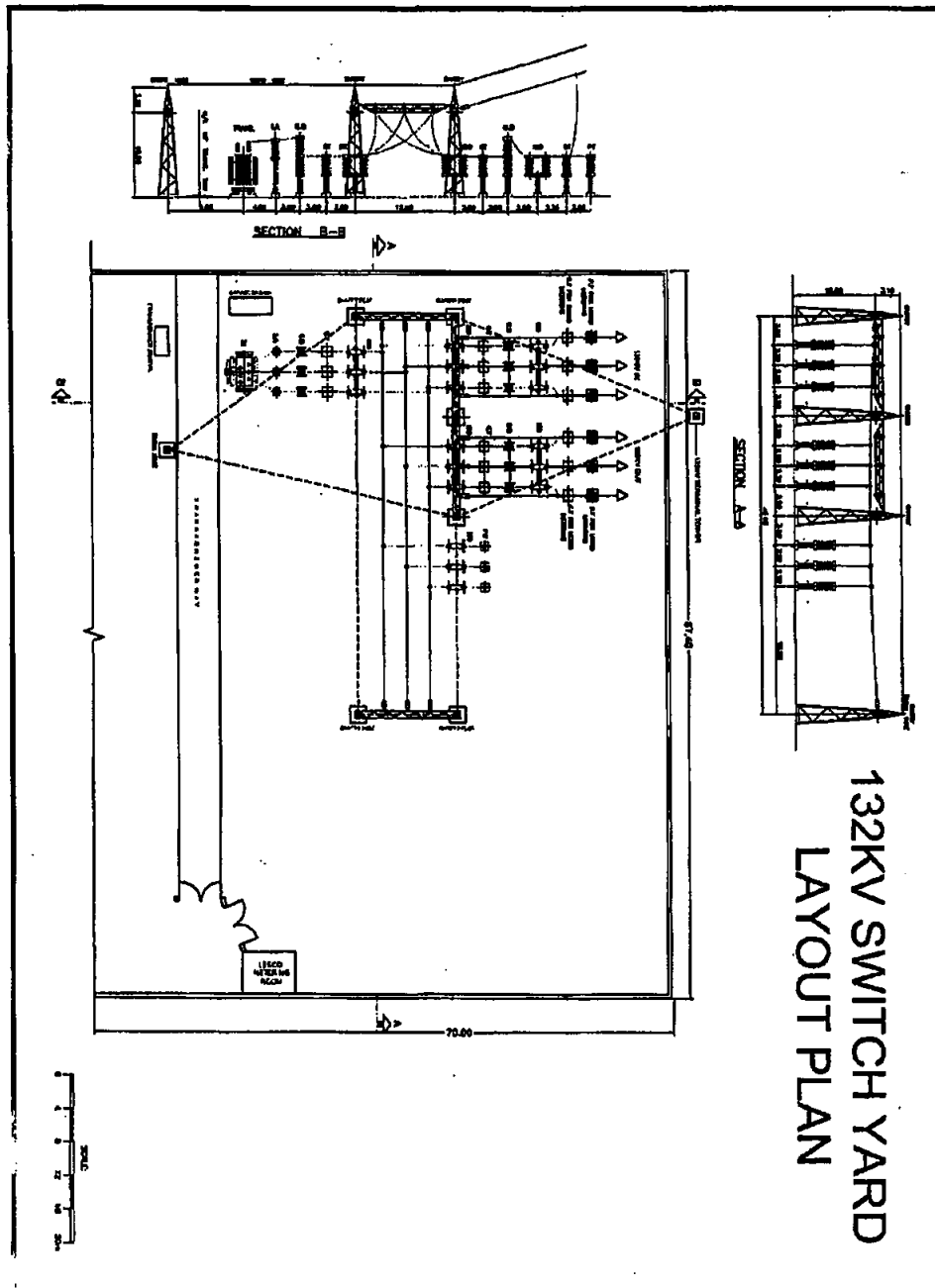
PIEDMC has hired the services of Concerned Manufacturers of Equipment, Lahore that have trained staff for fault localization, Metering, Operation & Maintenance of the BIE Distribution System.



Regulation #	Criteria / Requirements	Information / Documents submitted by
4(3)	The load of applicant's existing / proposed distribution network shall not be less than 20 MW.	Already attached as Annex- 3(5)(g)(b)(iii)
	Applicant shall have its own 132 KV grid station.	PIEDMC has own 132 KV grid station at Bhalwal Industrial Estate. Therefore PIEDMC intends to hire constructor for Design, supply, Installation, Testing commissioning and civil work of grid station. The consultant M/S Barqaab Pvt Ltd. would provide the consultancy services for construction of 132 KV grid station.
4(5)	In addition to the requirements provided in sub-regulation (1), the application for grant of a distribution license shall be accompanied by:	
	i. Evidence of adequate and necessary technical, financial and organizational capability to construct, develop, manage and maintain the proposed distribution network;	PIEDMC is the only department responsible for establishing medium and large size Industrial Estates in the province of Punjab. For all Industrial Estates Grid Station and Power Distribution is mandatory requirement. Already attached in application as Annex-3(5)(c) and 3(5)(d)(iv)
	ii. Evidence demonstrating applicant's ability to fulfill the requirement of Section 21 the Act, NEPRA Licensing (Distribution) Rules, 1999 and other provision of the applicable law.	PIEDMC has established by Government of Punjab, with the main objective to develop a chain of new industrial estate along with upgrading the existing ones in a dynamic and innovative manner, making ancillary arrangements related to the development of infrastructure. From last 10 years PIEDMC is doing electrical distribution in Sundar Industrial Estate successfully with the entire satisfaction of consumers.

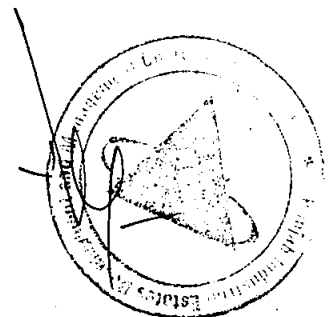


Switchyard Layout of the Grid Station of the Licensee/ Bhalwal Industrial Estate



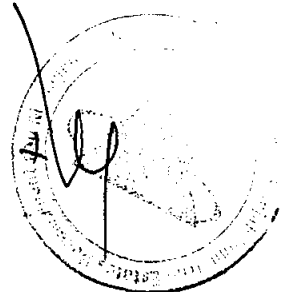
SCHEDULE-II

The Details of the Distribution Facilities [including length of feeder(s), feeder type (underground/overhead] and other specific details pertaining to the Distribution System linked with the Licensee/Bhalwal Industrial Estate.



Distribution License
For Punjab Industrial Estates Development and Management Company Lahore
Bhalwal Industrial Estate
Near 13 Chak Shamali, Bhalwal district Sargodha
in the province of Punjab

(vii).	Regulation	Voltage Level	11 KV/400V/220V with permissible Limit of $\pm 2.5\%$
		Frequency Level	50 Hz $\pm 3\%$



DETAILS OF DISTRIBUTION SYSTEM

A. General Information

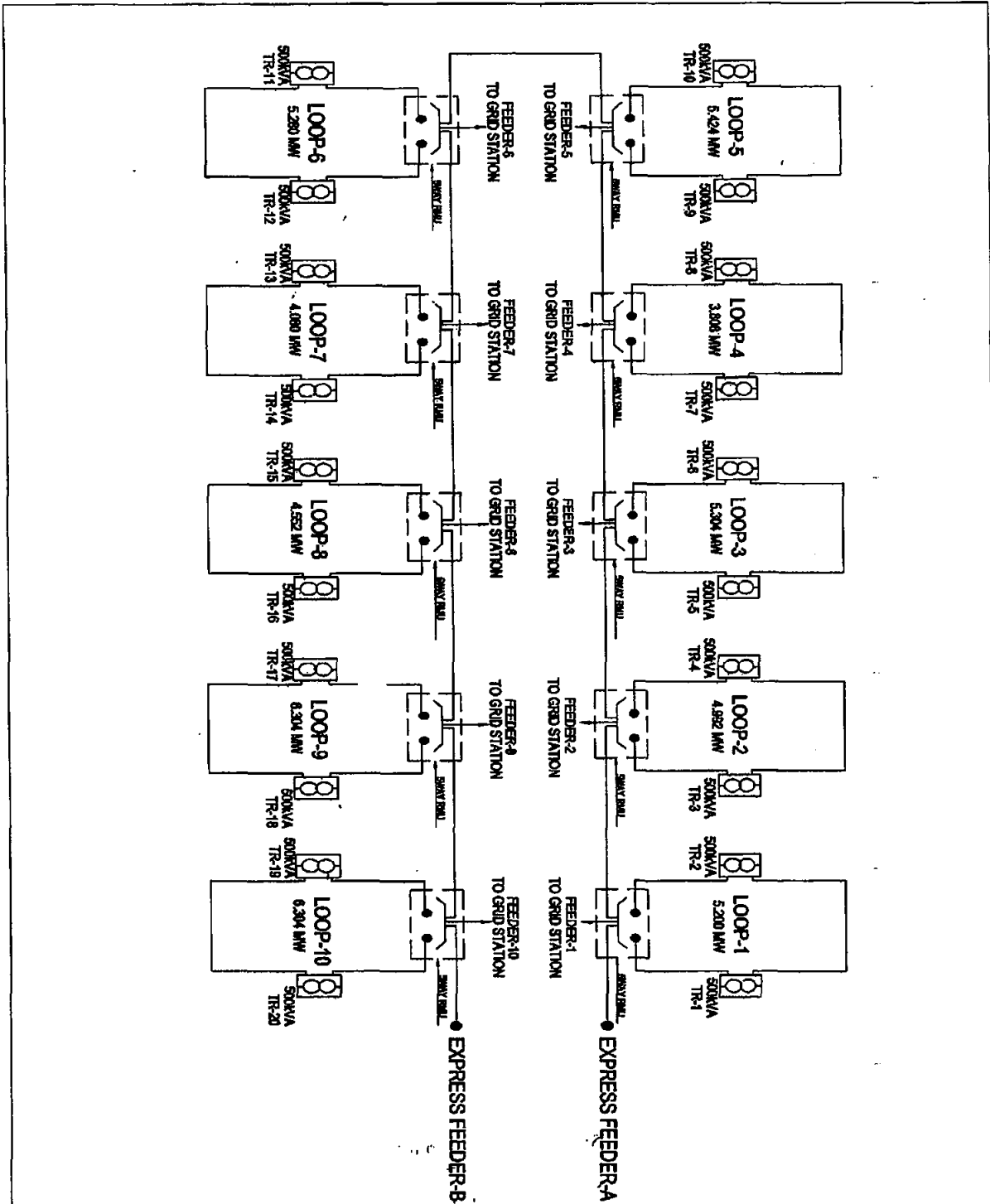
(i).	Name of Company	Punjab Industrial Estates Development and Management Company
(ii).	Registered/Business Office of the Company	PIEDMC Head Office North Commercial Area Sundar Industrial Estate Raiwind Road Lahore
(iii).	Location of the Distribution Facilities	Bhalwal Industrial Estate, Near 13 Chak Shamali Bhalwal (District Sargodha)

B. Distribution Network System

(a). Phase I & Phase II

(i).	Type of Distribution System	Semi Underground (Feeder Distribution is Underground and Loop Distribution for Connection is Overhead)	
(ii).	Voltage level	11 KV	
(iii).	Type of HT Cable	500 mm sqr 1-C Al/XLPE/PVC/AWA/PVC Cables and Goat Conductor	
(iv).	Type of LT Cable	240 mm sqr 1-C Al /PVC/AWA/PVC Cable, 16 mm sqr 1-C Al/PVC/AWA/PVC Cable, Ant Conductor	
(v).	No. of Feeders	Twelve (12)	
(vi).	Length of each Feeder	Feeder No.	Length in KM
		1	1.102
		1A	1.086
		2	1.057
		3	1.644
		4	4.663
		5	3.115
		6	2.196
		7	0.942
		8	2.451
		9	2.183
		10	3.812
		10A	3.847

Phase-I Feeders Single Line Diagram of the Distribution Facility of the Licensee / Bhalwal Industrial Estate.



Note: Consumer will provide their own transformer according to their load requirement as per WAPDA/FESCO Pattern

SCHEDULE-I

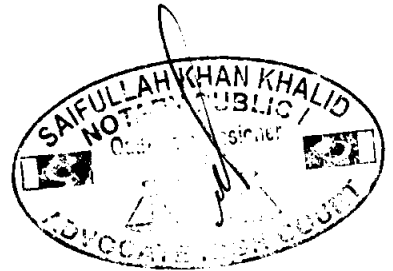
The Details of Territory (i.e. Geographical Boundaries) of the License within which the Licensee is authorized to conduct its Distribution Business.



E-STAMP



ID : PB-LHR-F2E90523C82FB0D0
Type : Low Denomination
Amount : Rs 100/-
Description : AFFIDAVIT - 4
Applicant : Nouman Rafique[35202-2250397-3]
S/O : Muhammad Rafique
Address : Lahore
Issue Date : 2-Aug-2022 1:41:07 PM
Delisted On/Validity : 9-Aug-2022
Amount in Words : One Hundred Rupees Only
Reason : Undertaking
Vendor Information : Asad Hussain | PB-LHR-434 | Sundar Road Mall



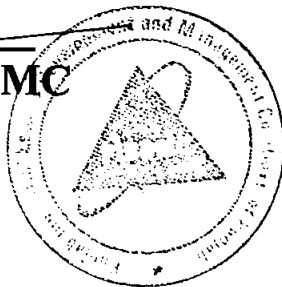
نوٹ: یہ ٹرانزیکشن تاریخ اجرا سے سات دنوں تک کے لیے قابل استعمال ہے۔

AFFIDAVIT

We, hereby undertake that Punjab Industrial Estates Development and Management Company (PIEDMC) have not been granted any other license under the Act.

We, hereby affirm and confirm that the contents of this affidavit are true and accurate to the best of my knowledge.

NOUMAN
Chief Engineer-PIEDMC



ATTESTED
OATH COMMISSIONER

E-STAMP



ID : PB-LHR-6FA6C0D7FBC25C19
Type : Low Denomination
Amount : Rs 100/-
Description : AFFIDAVIT - 4
Applicant : Nouman Rafique[35202-2250397-3]
S/O : Muhammad Rafique
Address : Lahore
Issue Date : 2-Aug-2022 1:42:27 PM
Delisted On/Validity : 9-Aug-2022
Amount in Words : One Hundred Rupees Only
Reason : Undertaking
Vendor Information : Asad Hussain | PB-LHR-434 | Sundar Road Mall





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

AFFIDAVIT

We hereby confirmed that the contents of the Application are accurate for the grant of Distribution and Sales License before NEPRA Authority (the "Application") including all supporting documents under, inter alia, NEPRA Licensing Procedure Regulation, 2021 and other applicable laws is being filed before the National Electric Power Regularity Authority (the "NEPRA")

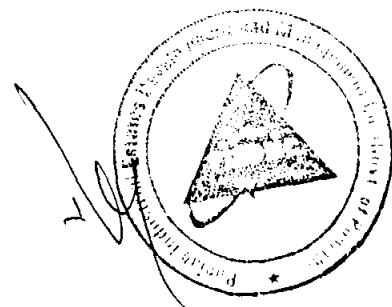
That all the contents of the Application and this Affidavit are true and correct to the best of my knowledge and belief and nothing has been concealed or misstated therein.


Nouman
Chief Engineer-PIEDMC


ATTESTED
CATH COMMISSIONER
LAHORE

VII

NUMBER OF CONSUMERS & EXPECTED LOAD					
Bhalwal Industrial Estate					
Sr.	PLOT NO.	Name of Company	Plot #	Plot Size (Acres)	Tentative Electricity Requirement
1	1	Mr. Javaid Rehman	10	0.50	100 KVA
2	2	M/s. A.B Enterprises	9	0.50	50 KVA
3	4	Mr. Umar Tariq	1	0.47	100 KVA
4	5	Mian Sarmad Mushtaq	5	0.50	300 KVA
5	6	Mr. Rafiq Ahmad	310	0.99	200 KW
6	7	M/s. Faqson International Indsutries	2 & 19	1.00	323 KW
7	9	M/s. Nutra Allied (Pvt.) Ltd	275	1.04	200 KW
8	12	Mr. Pervaz Iqbal	314	0.48	150 KW
9	14	Mr. Amjad Parwez Siddiqi	315	0.50	350 KW
10	15	Mr. Khalid Mehmood Asif	312	0.50	100 KVA
11	17	M/s. SOK Pharmaceutical (Pvt.) Ltd.	281	0.55	200 KW
12	21	Mr. Fazal Hussain	311	0.50	3500 KW
13	22	Mian Mubashir Qadir	294	1.00	100 KVA
14	23	Mr. Saqib Saeed	4	0.50	100 KVA
15	24	Mr. Zakir Ullah	255	1.02	150 KVA
16	27	Mr. Sajid Mahmood Chaudhary	319	0.50	100 KVA
17	28	Mr. Muhammad Tanveer Khaliq & Mrs. Sherazi Mehmooda	288	0.63	100 KVA
18	29	Mr. Zakir Ullah	256	1.02	150 KVA
19	30	Mr. Zahid Mahmood Chaudhary	320	0.50	100 KVA
20	31	M/s. Fazal-e- Subhan (Pvt.) Ltd.	48	2.20	200 KVA
21	32	M/s. Fazal-e- Subhan (Pvt.) Ltd.	49	2.21	200 KVA
22	33	M/s. Subhan Food Industries	50	2.18	200 KVA
23	34	M/s. Mafriman Pharmaceutical	7	0.50	400 KVA
24	35	M/s. Mafriman Pharmaceutical	8	0.50	400 KVA
25	36	M/s. Dot Vision Printers	20	0.48	100 KVA
26	37	Mr. Muhammad Khuram Shahzad	6	0.50	200 KVA
27	40	Mr. Pervaiz Iqbal	313	0.50	250 KVA
28	41	Mr. Pervaiz Iqbal	316	0.59	250 KVA
29	42	Mr. Pervaiz Iqbal	317	0.50	250 KVA
30	43	Mr. Pervaiz Iqbal	318	0.50	250 KVA
31	44	M/s. Y.K. Traders	52	2.00	200 KVA
32	45	Al Afia Industries (Pvt.) Ltd.	15	1.00	200 KW
33	48	M/s. Punjab Seed Corporation	58-59 & 83-84	4.01	500 KVA
34	50	Mr. Tariq Aziz & Ahmed Raza	277	1.00	215 KW
35	59	M/s. Ovais Shamim Enterprises (SMC-Pvt.) Ltd.	26 - 37	6.12	600 KW
36	72	M/s Anwar Raja Pvt Ltd	23	0.50	150 KW
37	73	Mr. Umair Khan, M. Zubair Khan & M. Uzair Khan	17	0.50	50 KW

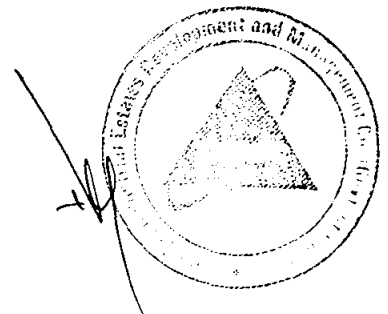


NUMBER OF CONSUMERS & EXPECTED LOAD

Bhalwal Industrial Estate

Sr.	PLOT NO.	Name of Company	Plot #	Plot Size (Acres)	Tentative Electricity Requirement
38	74	Mr. Umair Khan, M. Zubair Khan & M. Uzair Khan	16	0.50	100 KW
39	78	M/s. Trust Comforts	264	0.53	200 KVA
40	79	M/s. A.Y Nutraceuticals	18	0.50	100 KVA
41	83	M/s. Al-Asif International	292	1.00	600 KVA
42	84	M/s. Al-Asif International	291	1.00	600 KVA
43	85	M/s. Khalid Jameel & Co.	55	0.58	100 KVA
44	86	M/s Mechaqua Engineering Insurance	38	0.50	75 KW
45	87	M/s Al-Mubarak International Pvt Ltd.	278	1.00	50 KW
46	88	M/s. Bhai Bhai (Pvt.) Ltd.	286	1.01	200 KVA
47	89	M/s. Ataraxis Pharmaceutical	11	0.49	200 KVA
48	90	M/s. Niaz Enterprises	254	0.98	100 KVA
49	91	M/s. Sayroz Pharma Marketing	39	0.50	150 KVA
50	92	M/s. Subhan Food Industries	47	2.20	500 KVA
51	93	M/s Fastflow Pipes Pvt Ltd.	295	1.00	500 KW
52	94	M/s. M. Aydin Enterprises	279	1.00	100 KVA
53	99	M/s. K. B. Enterprises	222	0.56	150 KVA
54	102	M/s Airmed Pvt Ltd.	283	1.00	300 KW
55	103	M/s Airmed Pvt Ltd.	284	1.00	300 KW
56	105	M/s Westron agro Processing Pvt. Ltd	263	0.50	200 KW
57	106	M/s Gluck Laboratories Pvt Ltd	285	1.00	100 KW
58	109	M/s. STS Industries	40	0.50	100 KW
59	110	M/s. Salsabil Enterprises	25	0.53	200 KVA
60	111	M/s. Nofal Thread Impression	262	0.50	100 KVA
61	112	M/s Oriel Ceramics Industrial Pvt Ltd	34-172, 189-19	77.00	12 MW+350 KW
62	113	M/s. Tawakal Foods	257	1.02	100 KVA
63	114	M/s Anjum asad ameen consultants smc Pvt Ltd.	253	0.50	400 KVA
64	115	M/s Rakhaa Storage Services	296	1.00	600 KVA
65	116	M/s. Optimus Laboratories (Pvt.) Ltd.	62	0.50	200 KVA
66	117	M/s. Optimus Pharma (Pvt.) Ltd.	62-A	0.50	200 KVA
67	120	M/s Zac Laboratories Pvt Ltd	270	1.00	490 KW
68	121	M/s. H. A. Enterprises	267	1.03	100 KVA
69	122	M/s. H. A. Enterprises	258, 259, 266, 265	4.09	2 MW
70	123	M/s Arian plastic Industries Pvt Ltd	22	0.53	250 KW
71	124	M/s. Smartway Foods	293	1.00	400 KVA
72	125	M/s. H. A. Enterprises	268	1.02	200 KVA
73	128	M/s. Nobel Packaging (Pvt.) Ltd.	85-89 & 108-110	8.00	900 KW
74	130	M/s Arian plastic Industries Pvt Ltd	21	0.53	270 KW

NUMBER OF CONSUMERS & EXPECTED LOAD					
Bhalwal Industrial Estate					
Sr.	PLOT NO.	Name of Company	Plot #	Plot Size (Acres)	Tentative Electricity Requirement
75	131	M/s. HKS Enterprises & Management Consultants	90	1.00	200 KVA
76	132	M/s. Optimus Pharma (Pvt.) Ltd.	79	1.00	200 KVA
77	134	M/s Prism Coating	70	1.00	150 KW
78	136	M/s. Electrozone Corporation	280	0.5	200 KVA
79	137	M/s. Royal Import & Export (Pvt.) Ltd.	282	0.5	100 KW
80	138	M/s. Royal Import & Export (Pvt.) Ltd.	274	1.0	100 KW
81	139	M/s. ZAC Laboratories (Pvt.) Ltd.	271	1.0	490 KVA
82	140	M/s. Oreal Ceramics Industrial (Pvt.) Ltd.	127-133 & 193-196	10.67	10 MW
83	141	M/s. Orion International Trading Corporation (Pvt.) Ltd.	103, 94	2.00	200 KVA
84	142	M/s. Oreal Ceramics Industrial (Pvt.) Ltd.	173-188 & 197-213	30.00	3 MW
85	143	M/s. Millennium Tasty (Pvt.) Ltd.	12	0.50	160 KW
86	144	M/s. Ottimo Health Care (Pvt.) Ltd.	80	0.50	50 KVA
87	145	M/s. Health & Care Pharma	41	0.50	100 KVA
88	146	M/s. Bestway Packaging Limited	228-239	18.00	2.5 MW



DETAILS OF DISTRIBUTION SYSTEM

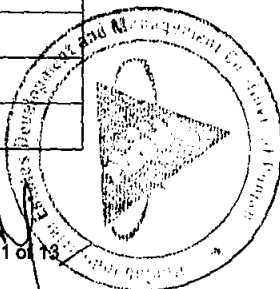
A. General Information

(i).	Name of Company	Punjab Industrial Estates Development and Management Company
(ii).	Registered/Business Office of the Company	PIEDMC Head Office North Commercial Area Sundar Industrial Estate Raiwind Road Lahore
(iii).	Location of the Distribution Facilities	Bhalwal Industrial Estate, Near 13 Chak Shamali Bhalwal (District Sargodha)

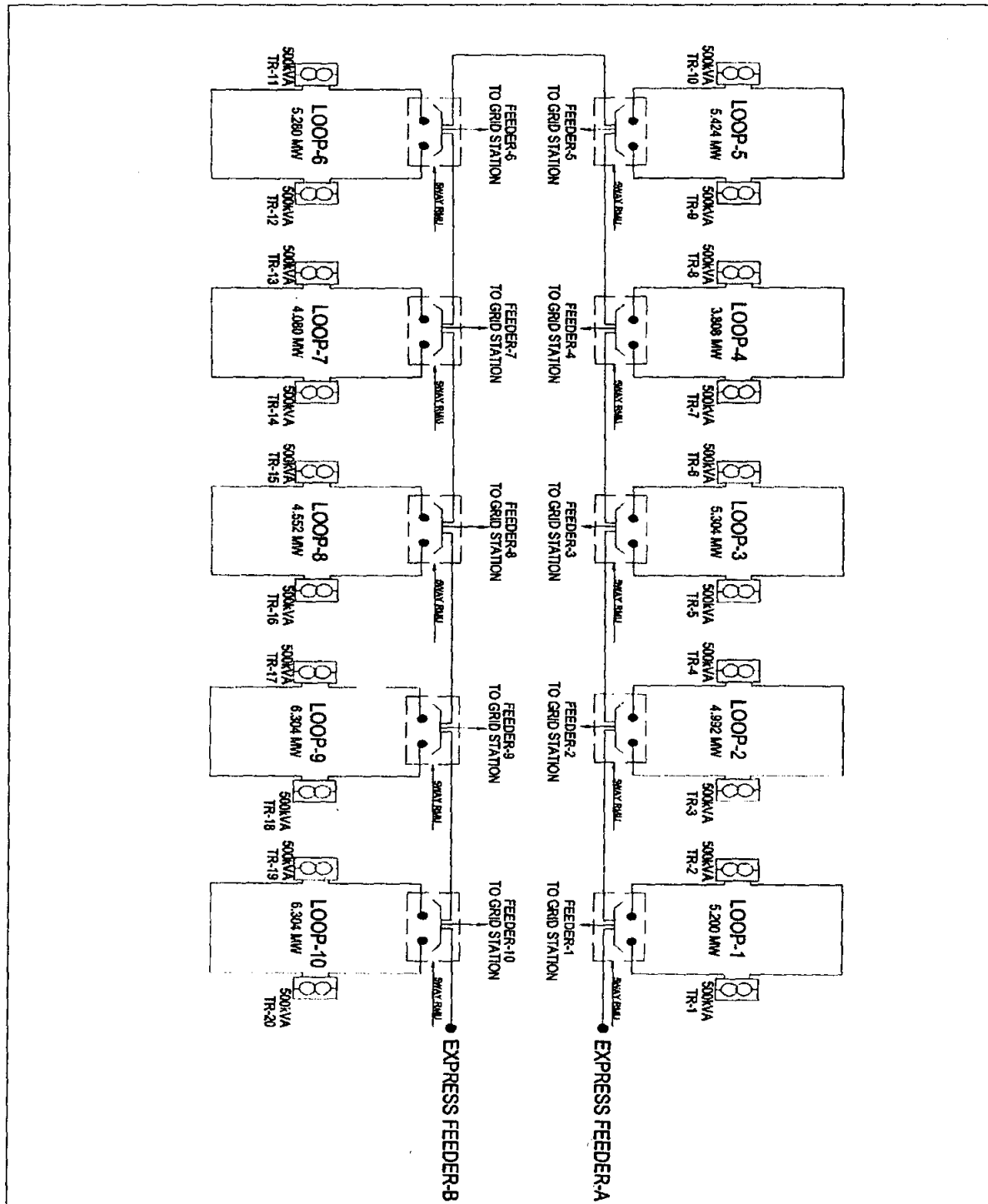
B. Distribution Network System

(a). Phase I & Phase II

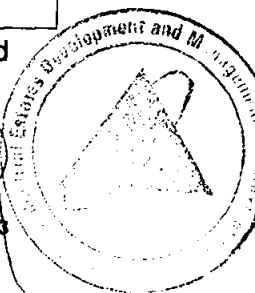
(i).	Type of Distribution System	Semi Underground (Feeder Distribution is Underground and Loop Distribution for Connection is Overhead)	
(ii).	Voltage level	11 KV	
(iii).	Type of HT Cable	500 mm sqr 1-C Al/XLPE/PVC/AWA/PVC Cables and Goat Conductor	
(iv).	Type of LT Cable	240 mm sqr 1-C Al /PVC/AWA/PVC Cable, 16 mm sqr 1-C Al/PVC/AWA/PVC Cable, Ant Conductor	
(v).	No. of Feeders	Twelve (12)	
(vi).	Length of each Feeder	Feeder No.	Length in KM
		1	1.102
		1A	1.086
		2	1.057
		3	1.644
		4	4.663
		5	3.115
		6	2.196
		7	0.942
		8	2.451
		9	2.183
		10	3.812
		10A	3.847



Phase-I Feeders Single Line Diagram of the Distribution Facility of the Licensee / Bhalwal Industrial Estate.



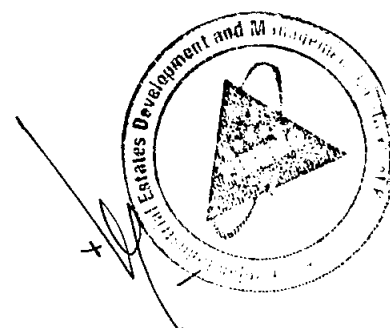
Note: Consumer will provide their own transformer according to their load requirement as per WAPDA/FESCO Pattern



VLL

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

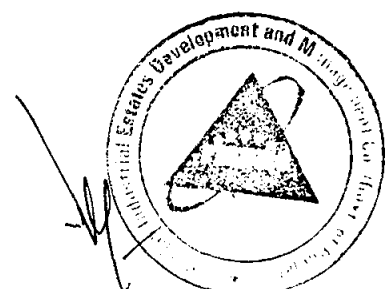
Connection Category of Consumer	Voltage	Load	Type of Connectio n	No. of Consumers. So far
Category 1	230/400V	Upto 50KW	Temporary	88
Category 2	230/400V	Up to 25 kW	Permanent	
	400V	Above 25 kW but not exceeding 500 kW		78
	11KV	Above 500 kW but not exceeding 5000 kW		10



VII

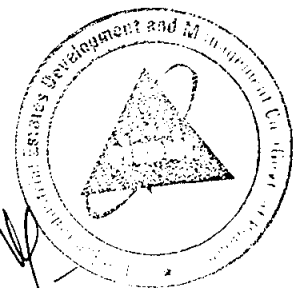
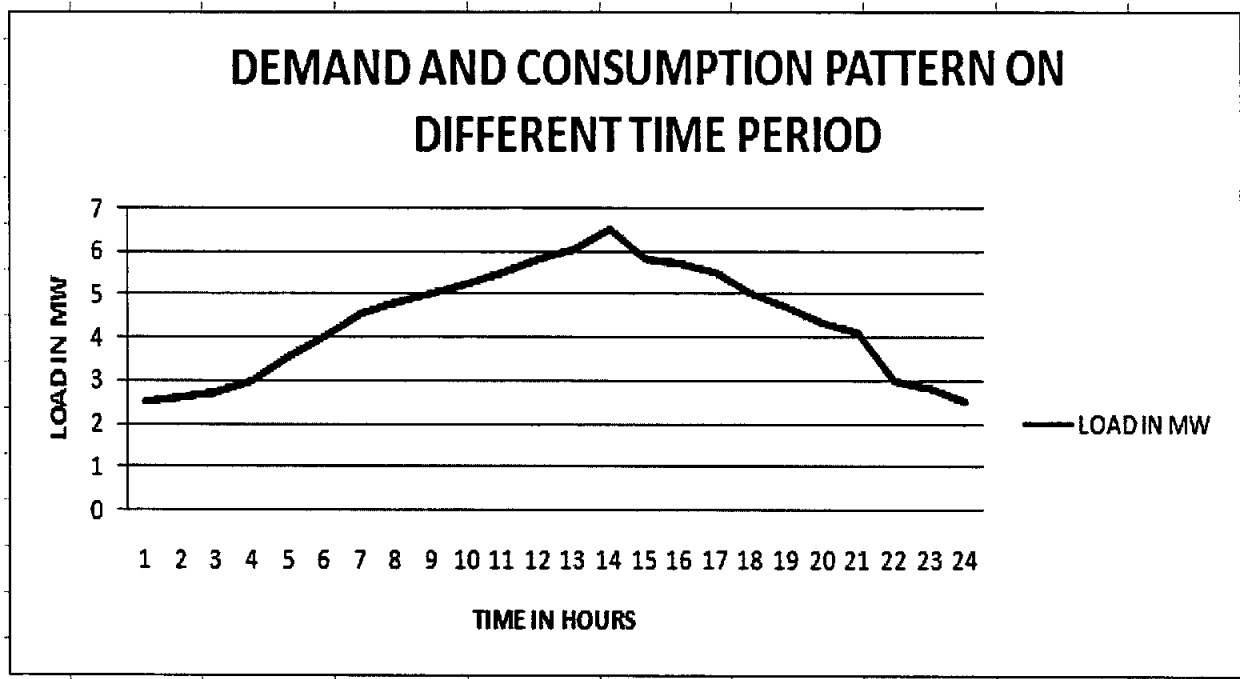
TARIFF CATEGORIES OF CONSUMER CLASSES TO BE SERVED.

Connection Category of Consumer	Type of Connection	Tariff Category	Load	No. of Consumers So far.
Category 1	Temporary	E-2	Upto 50KW	88
Category 2	Permanent	B-1	Up to 25 kW	30
		B-2	Above 25 kW but not exceeding 500 kW	78
		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 1pm from Monday to Friday.



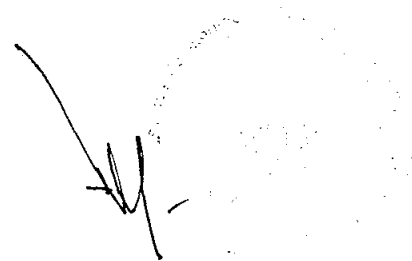
X

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 electricity for the Industrialist Estate through direct connection/wheeling as a long term and short term solution of energy shortfall as well.

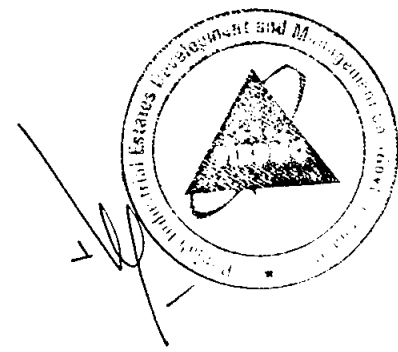
Pakistan is currently passing from one of its worst energy crisis. It is very difficult to supply continuous electricity to Industrial Estates, to Increase the industrialization and make the availability of 24hrs electricity. There is a need to add more power in PIEDMC all projects.

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.



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

Month	MDI	Unit Consumed
June-2022	5200	2613040
July-2022	5720	2874344
August-2022	6292	3161778
September-2022	6921	3477956
October-2022	7613	3825752
November-2022	8375	4208327
December-2022	9212	4629160
January-2023	10133	5092076
February-2023	11147	5601283
March-2023	12261	6161412
April-2023	13487	6777553
May-2023	14836	7455308



No.1869-2012/ ²⁴²⁶ -CS.III.
Government of the Punjab,
Colonies Department,
Lahore dated the July, 2012.
^{27th}

From

The Secretary to Government of the Punjab
Colonies Department.

The District Collector,
Sargodha.

Subject: **TRANSFER OF LAND TO PIEDMC FOR THE
ESTABLISHMENT OF INDUSTRIAL ESTATE AT BHALWAL,
DISTRICT SARGODHA.**

Please refer to the subject cited above.

2. The Government of the Punjab, in the Colonies Department is pleased to accord sanction for sale of state land measuring 39-1/4-Kanals (Khasra No.2,3,8 & 9) at the rate of Rs.6,00,000/ per acre plus 10% surcharge on account of sale by private treaty in favour of the PIEDMC for the establishment of Industrial Estate Bhalwal

3. The above mentioned land is sold to the PIEDMC on following terms and conditions approved by the Finance Department:-

1.	Repayment period.	5-years.
2.	Grace period	2-years.
3.	Interest rate.	0.25 % P.A.
4.	Penalty in case of default.	4% P.A.
5.	Mode of payment.	In three equal annual installments after the expiry of the grace period.

The land in question will not be utilized for the purpose other than the one for which it is being handed over and will be reverted to the Colonies Department alongwith superstructure when no longer required for the purpose. The Khasra number may be identified by the District Collector under intimation to the Board of Revenue, Punjab for record.

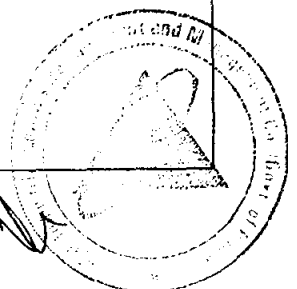
UNDER SECRETARY (COLONIES-I)
FOR SECRETARY TO GOVERNMENT OF THE PUNJAB
COLONIES DEPARTMENT.

No. & Date Even:-

A copy is forwarded for information and necessary action to the:-

- 1) Secretary to Chief Minister. Punjab, 07-Club Road, Lahore.
- 2) Secretary Finance Department, Government of the Punjab, Lahore.
- 3) Secretary, Government of the Punjab, Industries, Commerce and Investment, Department Lahore.
- 4) The Commissioner, Sargodha Division, Sargodha

UNDER SECRETARY (COLONIES-I)
FOR SECRETARY TO GOVERNMENT OF THE PUNJAB
COLONIES DEPARTMENT.



Phone No. 99210799.

No. 4074-2010/ ³²³² -CS (I)
Government of the Punjab
Colonies Department
Lahore, dated the ²⁹⁻¹²⁻²⁰¹⁰ 10-2010.

From

The Secretary to Government of the Punjab
Colonies Department.

To

The District Officer (Revenue),
Sargodha.

~~COLONY SALE ORDER~~

~~Disty No. 52~~

~~Order No. 1411/2010~~

Subject:

CHIEF MINISTER'S VISIT TO PIE HEAD OFFICE / SUNDER
INDUSTRIAL ESTATE

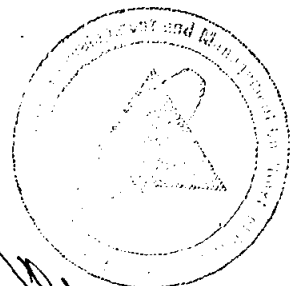
MBR(C)
Secy(C)
Dir(M.A.)
PS/PA
Reader

SMR
MBR(C)
Secy(C)
Secy(C)
Secy(C)
DLR
DGR

- As approved by the Competent Authority, Government of the Punjab in the Colonies Department is pleased to accord sanction of sale/ transfer of state land measuring 3086 Kanals 15 Marlas situated in Chak No.s 13/NB bearing Sq. No. 11, Killa Nos. 1 to 25, Sq. No. 20, Killa Nos. 1 to 25, Sq. No. 21, Killa Nos. 1, 9 to 13, 17 to 25, Sq. No. 22, Killa Nos. 1 to 25, Sq. No. 31, Killa Nos. 1 to 25, Sq. No. 34, Killa Nos. 1 to 25, Sq. No. 35, Killa Nos. 1 to 25, Sq. No. 36, Killa Nos. 1 to 24, 25-min, Sq. No. 43, Killa Nos. 1 to 4, 5-A, 5-B, 6 to 25, Sq. No. 44, Killa Nos. 1-A, 3-min, 4 to 8, 10-min, 11-min, 13-min, 14 to 25, Sq. No. 45, Killa Nos. 1 to 25, Sq. No. 44, Killa Nos. 1-min, 2, 3-min, 8-min, 9, 10-min, 11-min, 12, 13-min, Sq. No. 32, Killa No. 1 to 25, Sq. No. 33, Killa Nos. 1 to 25 measuring 2699 kanals 15 marlas & Chak No. 14/NB bearing Sq. No. 43, Killa Nos. 11 to 25, Sq. No. 51, Killa Nos. 11-A, 11-B, 12 to 25, Sq. No. 52, Killa Nos. 1 to 9, 10 to 17, 25-min measuring 387 Kanals, Tehsil Bhalwal, District Sargodha in favour of Punjab Industrial Estate for establishment of Industrial Zone subject to the fulfilment of the following terms and conditions:

1. The price of the land shall be paid to the Government of the Punjab, in Colonies Department, on the prevailing market rate.
2. The prevailing market rate shall be assessed on the basis of recommendations of District Price Assessment Committee, Sargodha. The final price will be fixed by Provincial Price Assessment Committee in consultation with the Finance Department and shall be communicated very shortly.
3. The sale price will be covered into a loan by the Government of the Punjab in the Finance Department in favour of Punjab Industrial Estate, on terms and conditions settled by the Board of Revenue, Punjab, Finance Department & PIEC. As soon as the requisite terms and conditions are settled, the land will be mutated in the name of the company.

ADDITIONAL SECRETARY (COLONIES)
FOR SECRETARY TO GOVERNMENT OF THE PUNJAB
COLONIES DEPARTMENT



Dy. No. ²⁸
PS to MBR(C)
Date: ^{29/12/10}

Dy. No. ¹³⁸⁷⁷
PS to SMR

of Terms and Conditions regarding the deferred loan in favour of Punjab Industrial Estate.

4. Chief Executive Officer, Punjab Industrial Estates Development and Management Company, Commercial Area (North) Sundar Industrial Estate, Raiwind Road, Lahore, for information and further necessary action.

14/11/51
ADDITIONAL SECRETARY (COLONIES)
FOR SECRETARY TO GOVERNMENT OF THE PUNJAB
COLONIES DEPARTMENT.

Two

کارروایی در این فصل آمده است. به عقیده ... و به ... ۱۱-۸-۲۰
 تاریخ ... ۱۳۰۵ ... ۱۴۰۵ ...
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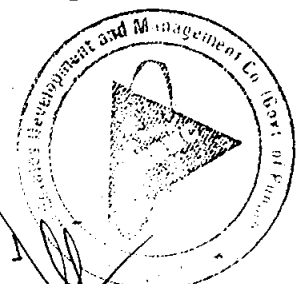
**BILLING AND COLLECTION PROCEDURE (INCLUDE PROVISION FOR
REMOTE METERING)**

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 industrial estate. The meter reading program shall be prepared in such a way that the meters of industrial estate 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/NTDC/DISCO's approved manufacturers, Moreover, PIEDMC will ensure the accuracy of these meters through testing and calibration of purchased Energy meters before energization/Installation of relevant Energy meters.

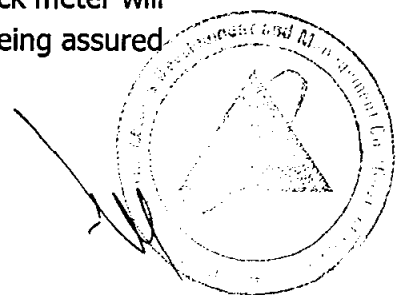
Meter readings of all types of connections are as under:

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

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 any competent forum if required for settlement of billing dispute, raised by any consumer i.e. NEPRA/Energy Department.

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 meter change order /meter checking report or any other appropriate method as per the practice. The concerned officer/official will take corrective action to rectify these discrepancies.

On all permanent connection PIEDMC install the back meter mandatory as in case of any meter display wash /meter burnt or any other relevant issue. The back meter will be considered is billing meter and the accuracy of reading and billing is being assured in this way for customer satisfaction and to avoid the conflict as well.



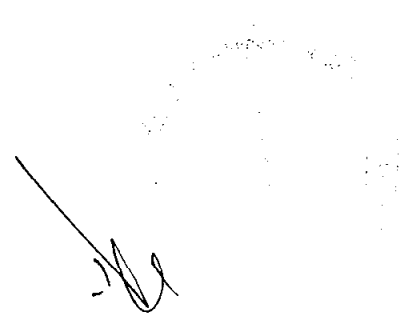
Moreover, in case of any customer complaint regarding billing, PIEDMC install back-up meter on all industrial connections having sanctioned load of 25KW and above on request of the consumer. The cost will be borne by the consumer if meters provided/arrange by PIEDMC on consumer's request. In case of 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.

Follow up duties are also scheduled for combing and to reduce the pilfering for the effective curtailment of the losses.

Any detection bill is charged as per SOP's approved by NERPA in customer service manual.

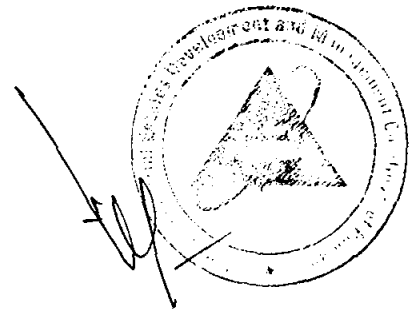
Dispute resolution committee is also formed for the amicable settlement of the billing conflict before the matter to be taken on the third party forum.

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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 Bhalwal 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.



XIX

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

1. ELECTRICAL 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. PROVIDING THE RING MAIN SYSTEM TO ENSURE THE SUSTAINABILITY AND RELIABILITY OF THE POWER SUPPLY TO CONSUMERS.

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

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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 complaint 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 complaint 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.



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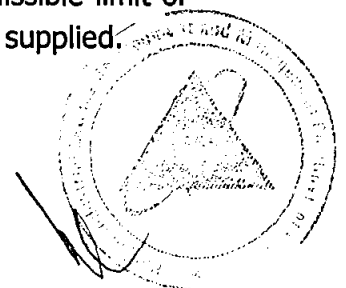
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TECHNICAL PLAN / PROPOSAL FOR OPERATION & MAINTENANCE

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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 electricity 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.

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 industrial estate. The meter reading program shall be prepared in such a way that the meters of industrial estate are normally read on the same dates each month.

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Designation	Load	Type of connection	Type of Meter	Meter Accuracy Class
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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 any competent forum if required for settlement of billing dispute, raised by any consumer i.e. NEPRA/Energy Department.

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 meter change order /meter checking report or any other appropriate method as per the practice. The concerned officer/official will take corrective action to rectify these discrepancies.

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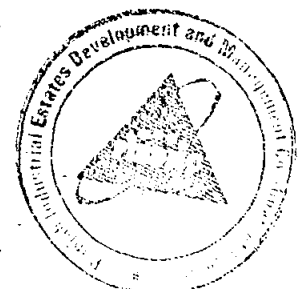
Moreover, in case of any customer complaint regarding billing. PIEDMC install back-up meter on all industrial connections having sanctioned load of 25KW and above on request of the consumer. The cost will be borne by the consumer if meters provided/arrange by PIEDMC on consumer's request. In case of 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.

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Any detection bill is charged as per SOP's approved by NEPRA in customer service manual.

Dispute resolution committee is also formed for the amicable settlement of the billing conflict before the matter to be taken on the third party forum.



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

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

TARIFF CATEGORIES OF CONSUMER CLASSES TO BE SERVED.

Connection Category of Consumer	Type of Connection	Tariff Category	Load	No. of Consumers So far.
Category 1	Temporary	E-2	Upto 50KW	88
Category 2	Permanent	B-1	Up to 25 kW	30
		B-2	Above 25 kW but not exceeding 500 kW	78
		B-3	Above 500 kW but not exceeding 5000 kW	10

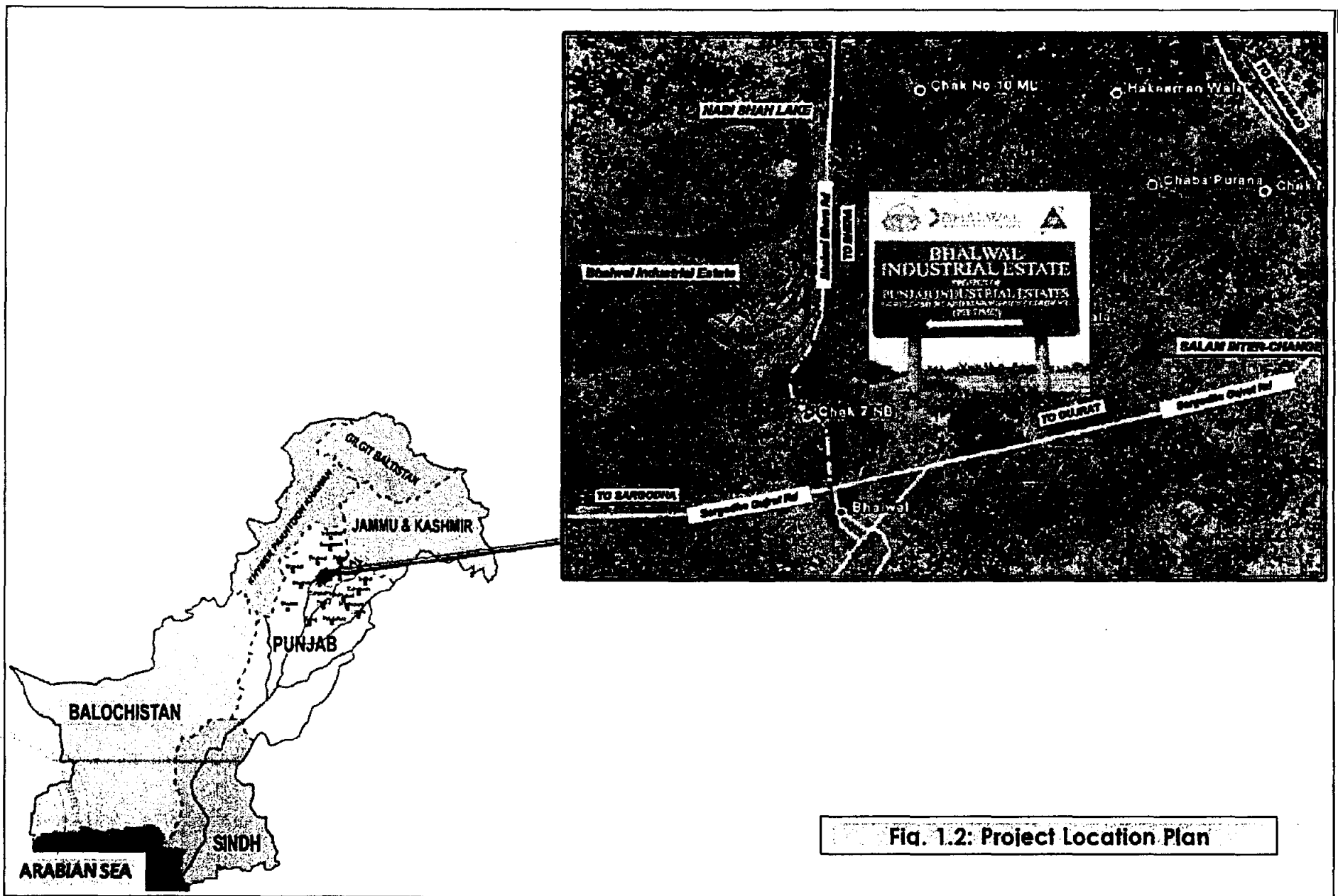
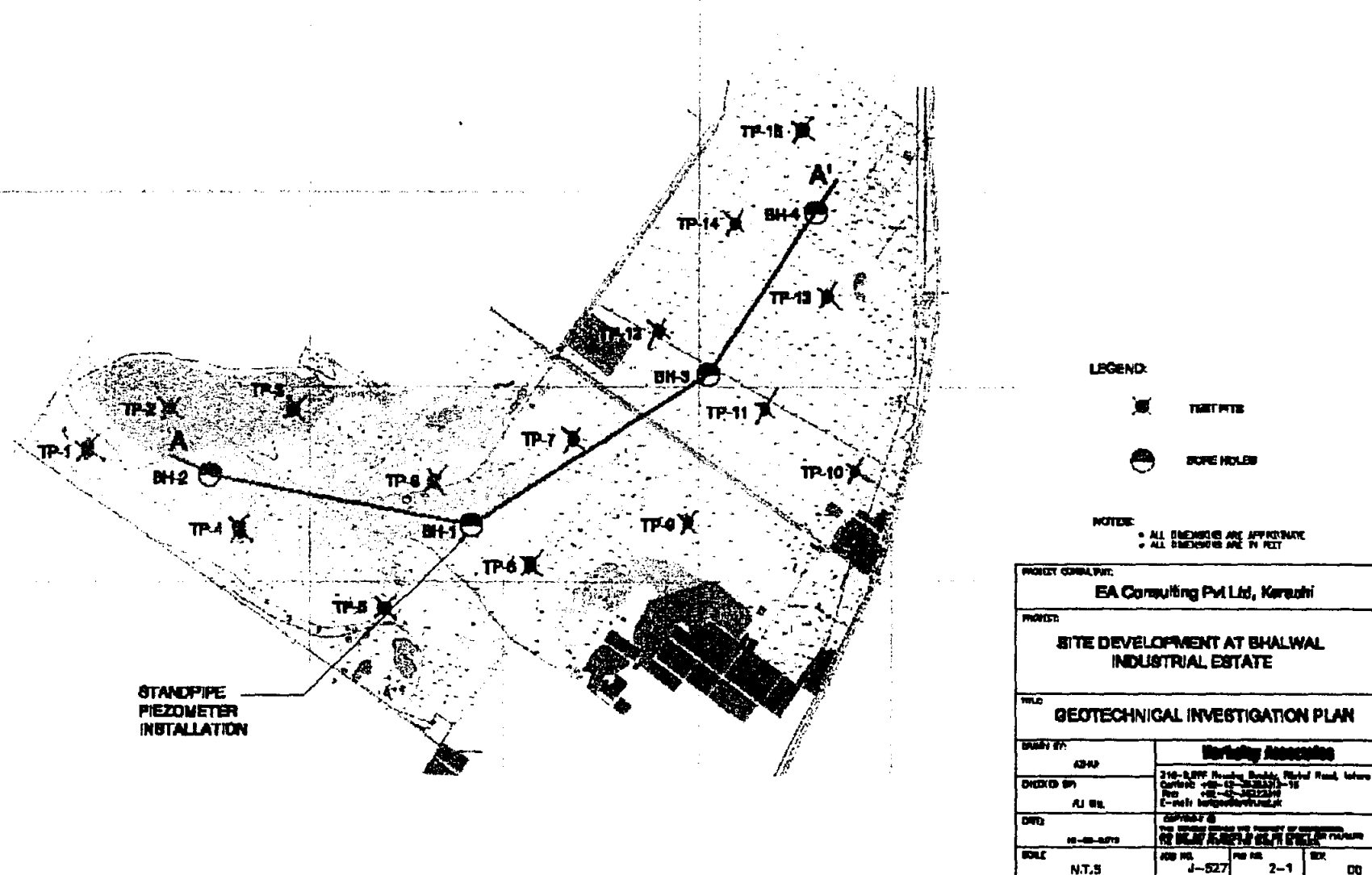


Fig. 3.3.1: Geotechnical Investigations Plan - Location of Test Pits and Bore Holes



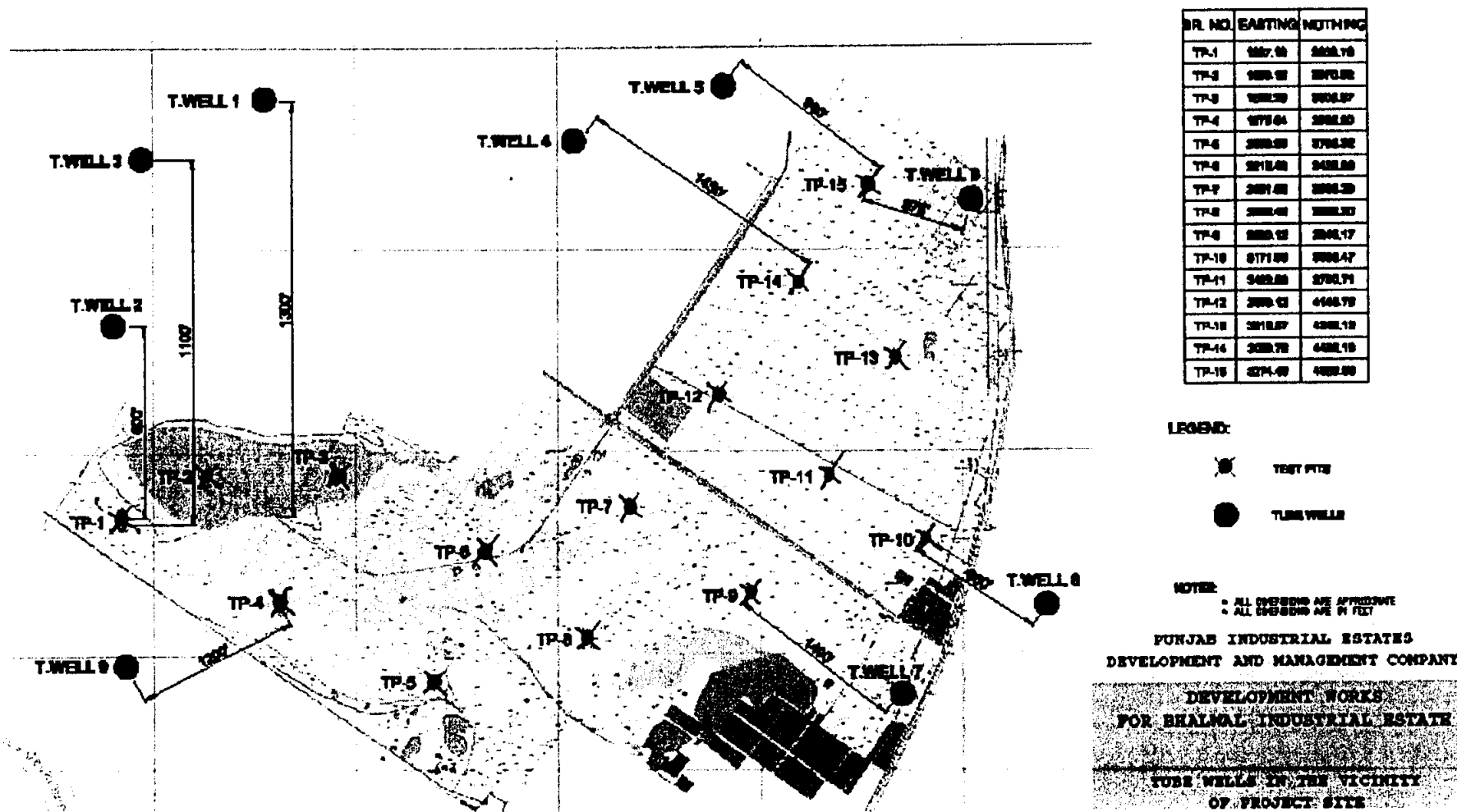
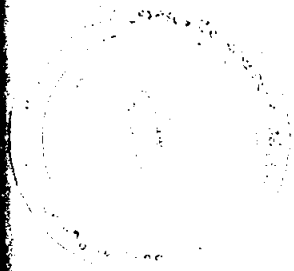
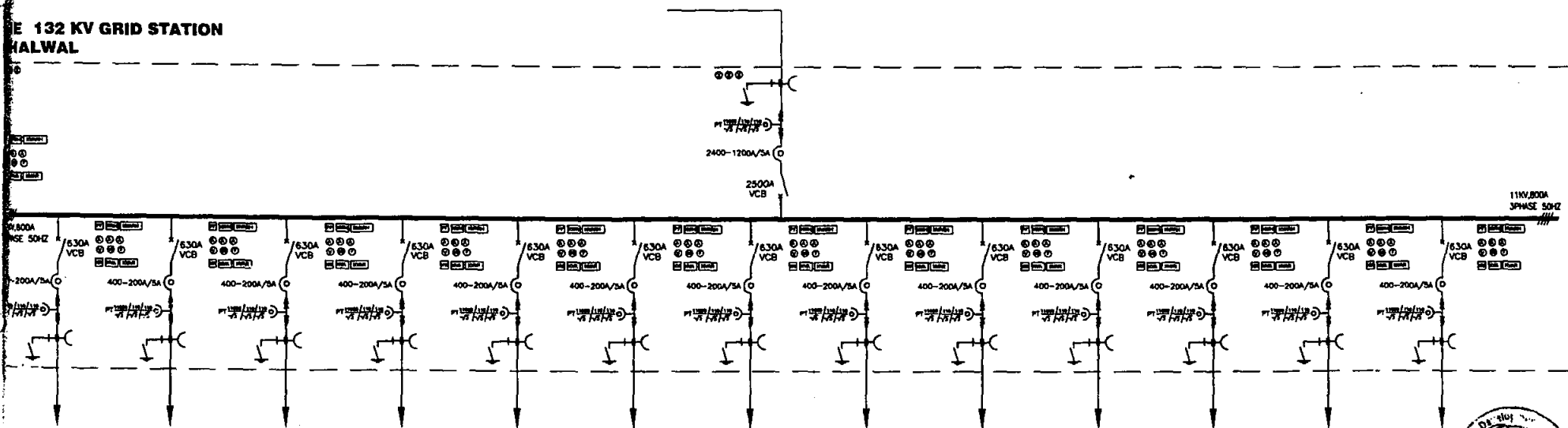




Fig. 3.4: Geotechnical Investigations Plan - Location of Tube Wells in the vicinity of the Project

ELECTRIC SUPPLY AND DISTRIBUTION
SYSTEM INCLUDING STREET
LIGHTING





E 132 KV GRID STATION HALWAL

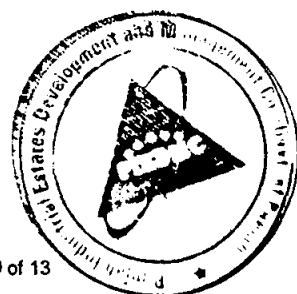
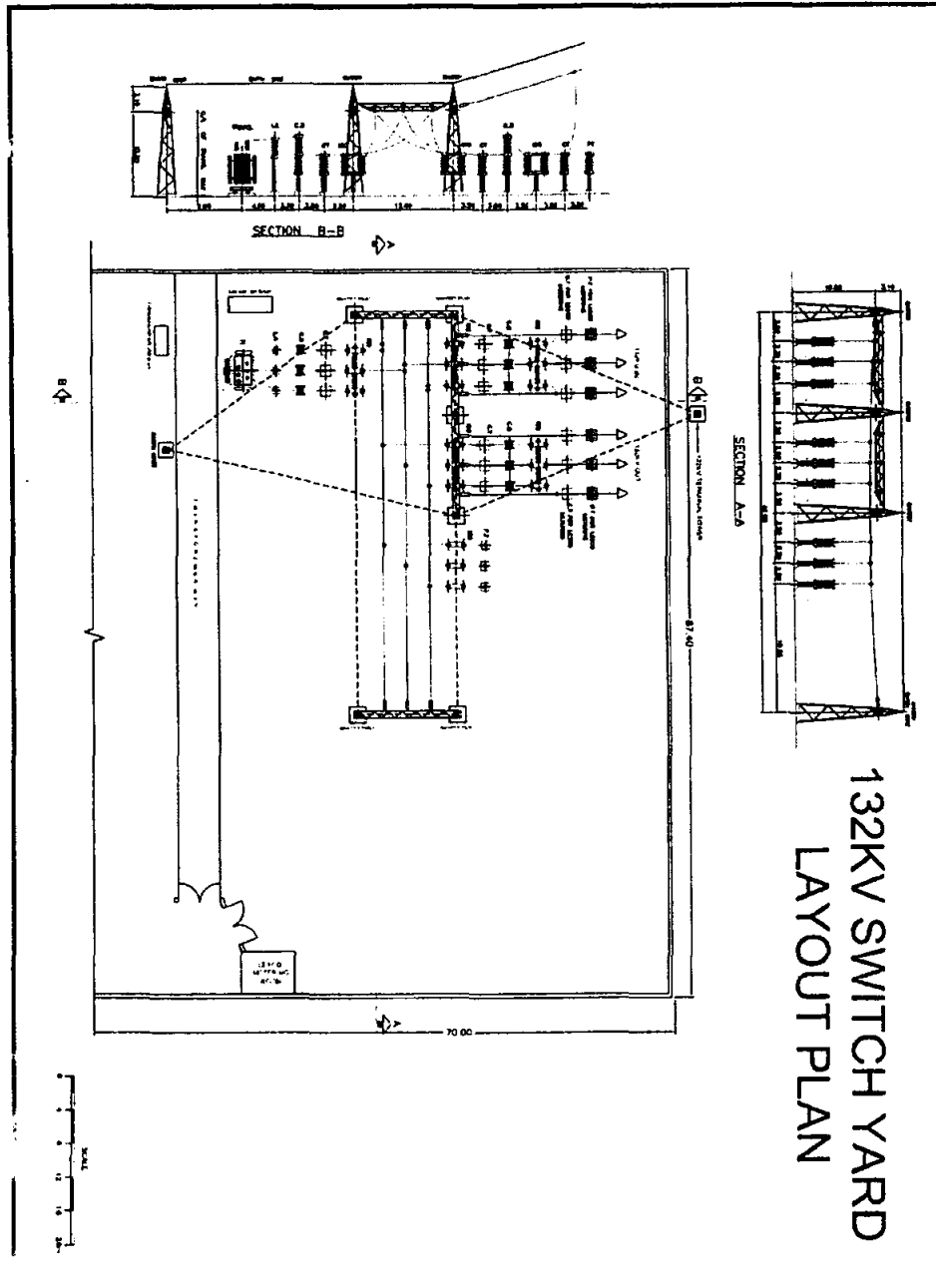


					<div>CLIENT:-</div> <div></div> <div>PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY LAHORE</div>					<div>PROJECT:-</div> <div>BHALWAL INDUSTRIAL ESTATE CONTRACT PACKAGE I CONSTRUCTION OF APPROACH ROAD, BOUNDARY WALL, GATE HOUSE AND LAND RECLAMATION</div>									
					<div>CONSULTANT:-</div> <div></div> <div>EA Consulting (Pvt.) Limited CONSULTING ENGINEERS, ARCHITECTS, ECONOMISTS & PLANNING EXPERTS</div>					<div>DRAWN BY</div> <div>J.A.</div> <div>DESIGNED BY</div> <div>M.S.</div> <div>CHECKED BY</div> <div>S.H.</div> <div>APPROVED BY</div> <div>J.I.S.</div>					<div>TITLE -</div> <div>SINGLE LINE DIAGRAM GRID STATION</div> <div>SCALE</div> <div>1:4000</div> <div>DWG NO</div> <div>EA-775-E-104</div>				
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						<div>CLIENT -</div> <div></div> <div>PUNJAB INDUSTRIAL ESTATE DEVELOPMENT AND MANAGEMENT COMPANY LAHORE</div>	<div>PROJECT -</div> <div>BHALWAL INDUSTRIAL ESTATE CONTRACT PACKAGE I CONSTRUCTION OF APPROACH ROAD, BOUNDARY WALL, GATE HOUSE AND LAND RECLAMATION</div>
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ED.NO	DATE	DESCRIPTION	BY	CHKD	APPROV		

Switchyard Layout of the Grid Station of the Licensee/ Bhalwal Industrial Estate

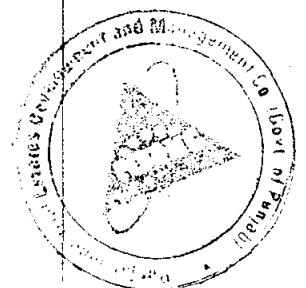


SCHEDULE-II

The Details of the Distribution Facilities [including length of feeder(s), feeder type (underground/overhead) and other specific details pertaining to the Distribution System linked with the Licensee/Bhalwal Industrial Estate.

Distribution License
For Punjab Industrial Estates Development and Management Company Lahore
Bhalwal Industrial Estate
Near 13 Chak Shamali, Bhalwal district Sargodha
, in the province of Punjab

(vii).	Regulation	Voltage Level	11 KV/400V/220V with permissible Limit of $\pm 2.5\%$
		Frequency Level	50 Hz $\pm 3\%$



DETAILS OF DISTRIBUTION SYSTEM

A. General Information

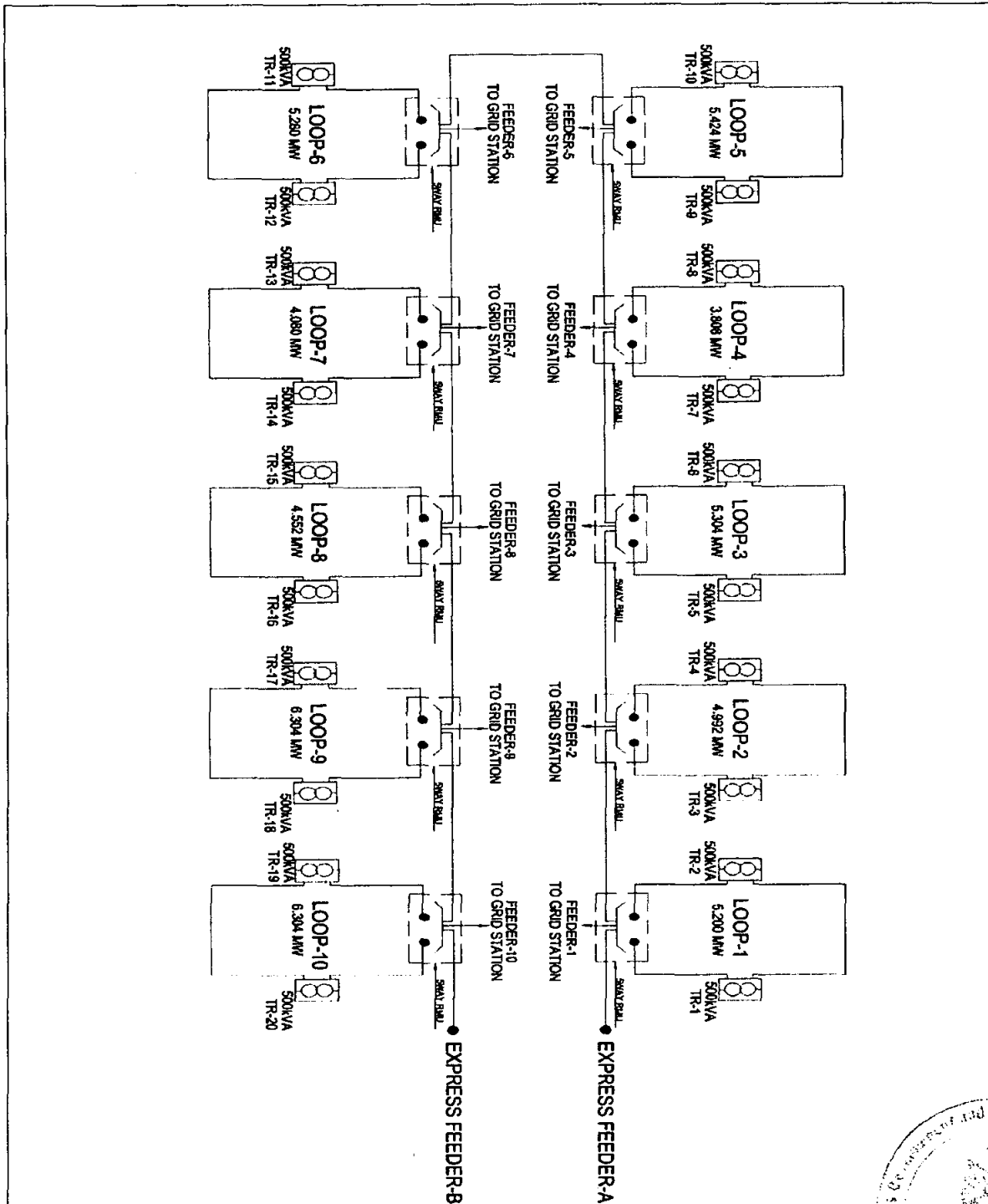
(i).	Name of Company	Punjab Industrial Estates Development and Management Company
(ii).	Registered/Business Office of the Company	PIEDMC Head Office North Commercial Area Sundar Industrial Estate Raiwind Road Lahore
(iii).	Location of the Distribution Facilities	Bhalwal Industrial Estate, Near 13 Chak Shamali Bhalwal (District Sargodha)

B. Distribution Network System

(a). Phase I & Phase II

(i).	Type of Distribution System	Semi Underground (Feeder Distribution is Underground and Loop Distribution for Connection is Overhead)	
(ii).	Voltage level	11 KV	
(iii).	Type of HT Cable	500 mm sqr 1-C Al/XLPE/PVC/AWA/PVC Cables and Goat Conductor	
(iv).	Type of LT Cable	240 mm sqr 1-C Al /PVC/AWA/PVC Cable, 16 mm sqr 1-C Al/PVC/AWA/PVC Cable, Ant Conductor	
(v).	No. of Feeders	Twelve (12)	
(vi).	Length of each Feeder	Feeder No.	Length in KM
		1	1.102
		1A	1.086
		2	1.057
		3	1.644
		4	4.663
		5	3.115
		6	2.196
		7	0.942
		8	2.451
		9	2.183
		10	3.812
		10A	3.847

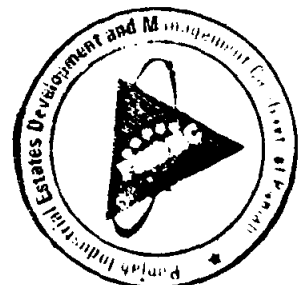
Phase-I Feeders Single Line Diagram of the Distribution Facility of the Licensee / Bhalwal Industrial Estate.



Note: Consumer will provide their own transformer according to their load requirement as per WAPDA/FESCO Pattern

SCHEDULE-I

The Details of Territory (i.e. Geographical Boundaries) of the License within which the Licensee is authorized to conduct its Distribution Business.



**National Transmission and Despatch Company Limited
(NTDCL)**



**System Study
For Supply of Power to Bhalwal Industrial Estate (BIE)**

**Planning (Power) Department
4th Floor, PIA Tower, Egerton Road, Lahore.**

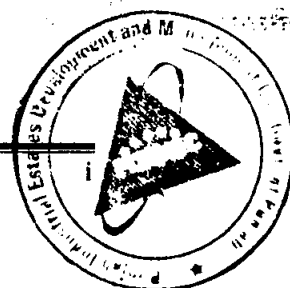
April 2016

Executive Summary

1. M/s Punjab Industrial Estates (PIE) Development and Management Company is planning to establish an industrial estate at Bhalwal. The location of Bhalwal Industrial Estate (BIE) which is 5 km from Bhalwal – Bhera Road and 2.5 km from the existing Bhalwal 132 kV substation.
2. M/s Barqaab Consulting Services (Pvt.) Limited, the consultant of M/s PIE, has requested Planning Power department of NTDC to carry out system study to propose transmission scheme to feed BIE through a new 132kV substation for BIE.
3. The proposed interconnection scheme to feed BIE is as follows:
 - A new 132kV substation (BIE) with 2x40MVA, 132/11 kV transformers. (1st 40 MVA transformer would be required in the initial stage and the 2nd 40MVA transformer would be required in later stage depending on load demand of BIE)
 - 24 MVAR capacitor at 132 kV BIE substation.
 - A 132 kV double circuit transmission line, approx. 1.5 km long on Rail conductor for looping In/Out of existing 132 kV S.P.Noan – Bhalwal single circuit line at 132 kV BIE substation.
 - A 132kV double circuit transmission line, approx. 7 km long on Rail conductor for looping In/Out of existing 132 kV Ludewala – Bhera Industrial single circuit line at 132 kV BIE substation.

The scope of this study report involves transmission system and is limited up to 132/11kV bus of BIE. The load of BIE is represented at 11 kV bus bar of BIE 132kV substation.

4. This is system study report in which the results of load flow and short circuit studies have been presented for the 9MW/10MVA load with one 40MVA 132/11 kV transformer in 2018 and extended to 45MW/50MVA load with two 40MVA 132/11 kV transformers at BIE substation. The load flow analysis has been carried out for the stressed system scenarios in summer 2018 and 2022 in order to evaluate the adequacy of the proposed interconnection scheme with the extended load in the light of NEPRA grid code.
5. In order to conduct this study, the basic information has been provided by M/s Barqaab Consulting services(Pvt.) Limited to NTDC including location of 132 kV Bhalwal Industrial Estate substation, its distances from existing 132 kV substation and the transmission line near/around 132 kV BIE substation. NTDC has used the latest load forecast and expansion plans to conduct system studies.



6. The proposed 132 kV interconnection scheme has been found adequate to feed total 45MW/50 MVA load in year 2022 and there will be no overloading or any network constraints at/around 132 kV BIE substation under normal and N-1 contingency condition.
7. Short circuit studies have also been carried out to propose the rating of the switchgear equipment at 132 kV substation of BIE. The short circuit level at 132 kV BIE substation is 10.96 kA in year 2022. In consideration of future developments in NTDC and/FESCO networks in the surrounding of BIE in long term perspective, the short circuit levels of BIE substation are expected to rise. Therefore, it is suggested to design 132 kV switchgear equipment of BIE substation with short circuit ratings of 40 kA.
8. The comments of project sponsor are welcome. Since, the proposed 132 kV BIE substation lies in the jurisdiction of FESCO, the comments of FESCO on this study report should also be taken and communicated to NTDC Planning Power.

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Appendices

Appendix-1: Load Flow Study Exhibits

Appendix-2:Short Circuit Study Exhibit

1. Introduction

Punjab Industrial Estates (PIE) Development and Management Company is planning to establish an Industrial Estate at Bhalwal. Initially the load demand for BIE is 9MW/10MVA in year 2018 and will be extended to 45MW/50MVA by year 2022. The location of Bhalwal Industrial Estate is 5km from Bhalwal – Bhera Road and 2.5km from 132kV Bhalwal substation. The co-ordinates of BIE as sought from Google Map are as follows; Latitude = 32.3046488N, Longitude= 72.8823664E.

This is system study report in which the results of load flow studies have been presented for the 9MW/10MVA load in 2018 and extended to 45MW/50MVA load in 2022 for BIE. The load flow analysis has been carried out for the stressed system scenarios in summer 2018 and 2022 in order to evaluate the adequacy of the proposed interconnection scheme with the extended load in the light of NEPRA grid code.

2. Proposed Connection Scheme

In view of the location of 132 kV substation at Bhalwal for BIE and the surrounding system network, the following interconnection scheme has been proposed for reliable supply of power to BIE,

- A new 132 kV substation (BIE) with 2x40MVA, 132/11 kV transformers. (1st 40 MVA transformer would be required in the initial stage and the 2nd 40MVA transformer would be required in later stage depending on load demand of BIE)
- 24 MVAR capacitor at 132 kV BIE substation.
- A 132 kV double circuit transmission line, approx. 1.5 km long on Rail conductor for looping In/Out of existing 132 kV S.P.Noan – Bhalwal single circuit line at 132 kV BIE substation.
- A 132kV double circuit transmission line, approx. 7 km long on Rail conductor for looping In/Out of existing 132 kV Ludewala – Bhera Industrial single circuit line at 132 kV BIE substation.

The above scheme is proposed not only for reliable evacuation of power to BIE but also improve FESCO network at/around the proposed substation of BIE in N-1 contingency condition in year 2018 and 2022.

It is worth mentioning that due to FESCO network constraints in year 2018 there will be no N-1 contingency provision in single circuit line from 132 kV Bhalwal substation to Hear Faqiran, but with the induction of 220/132 kV Head Faqiran Substation station and the proposed interconnection scheme for 132 kV substation of Bhalwal Industrial Estate will enable FESCO to feed this area not only in normal condition but also in N-1 contingency condition.

3. Study Assumptions and Criteria

3.1. Study Assumption

The assumptions for the load flow studies are as under:

- Latest load forecast.
- Latest generation expansion plan.
- Latest transmission expansion plans of NTDC and FESCO.
- The existing and planned shunt capacitors as proposed by FESCO have also been incorporated in the studies.
- The power factor at 11kV side of 132 kV Bhalwal Industrial Estate is assumed as 0.9 lagging as per industrial connection standards of DISCOs.

3.2. Study Criteria

The load flow studies have been carried out keeping in view of the following system operating criteria/limits in accordance with Substation Code:

Voltage Limits:	$\pm 5\%$ under normal and $\pm 10\%$ under contingency conditions.
Transmission Line and Transformer Loading Limits:	100% of rating under normal and N-1 contingency conditions.

4. Load Flow Studies

Load flow studies have been carried out for the stressed system scenarios in summer season (Peak load conditions of Aug/ Sept 2018 and Aug/ Sept 2022) to assess the adequacy of the proposed interconnection scheme of 132kV substation of Bhalwal Industrial Estate with the total load of 9MW/10MVA in year 2018 and 45MW/50MVA in year 2022 and to analyze its impact on the system networks of FESCO and NTDC.

The results of the load flow studies with proposed interconnection scheme for 132kV substation of BIE are described as under;

4.1. Peak Load Aug/ Sept 2018

The load flow studies have been carried out without and with 132 kV substation of BIE with its proposed interconnection scheme. The results of the studies are described as under:

4.1.1. Without 132kV substation of Bhalwal Industrial Estate (BIE)

Load flow study for the peak load Aug/Sept 2018 under normal system condition without 132kV substation of BIE has been carried out and is attached as Exhibit #1. It is worth mentioning that due to FESCO network constraints in year 2018 there will be no N-1 contingency provision in 132 kV doubles circuit line from Ludewala to Bhabra and Ludewala to Phalia, which come under jurisdiction of FESCO.

4.1.2. With 132kV substation of Bhalwal Industrial Estate (BIE)

Load flow study for the peak load Aug/Sept 2018 has also been carried out with the interconnection scheme for 132kV substation of BIE and the study result under normal system condition is attached as Exhibit #2. As per load flow study it depicts that the system would be operating well within limits and there would be no transmission system constraints in feeding the load of 9MW/10MVA through the proposed interconnection scheme in year 2018.

The load flow studies have also been carried out for the single line contingency (N-1) analysis in the vicinity of the proposed 132 kV substation of BIE and are attached as Exhibit #3-6. The results of contingency studies have been summarized as under;

Exhibit #	Circuit Outage	Remarks
3	Ludewala – Bhalwal 132 kV single circuit out	Power flows on the other transmission lines and transformers as well as the voltage profile of the system remain within limits.

Exhibit #	Circuit Outage	Remarks
4	Ludewala – S.PR.Noon 132 kV single circuit out	-do-
5	S.PR.Noon – BIE 132 kV single circuit out	-do-
6	BIE – Bhalwal 132 kV single circuit out	-do-

It is worth mentioning that due to FESCO network constraints in year 2018 there will be no N-1 contingency provision in single circuit line from 132kV Bhalwal to Head Faqiran substation.

4.2 Peak Load Aug/ Sept 2022

Load flow study has also been carried out for future system scenario, i.e., peak load Aug/ Sept 2022 with a total load of 45MW/50MVA at 132 kV substation of BIE through the proposed 132 kV interconnection scheme and the study result under normal system condition is attached as Exhibit #7. The area problem will be resolved with the induction of 220/132 kV Head Faqiran substation and the proposed interconnection scheme for 132kV substation of BIE will enable FESCO to feed this area not only in normal condition but also in N-1 contingency condition.

As per load flow study, the power flow over the proposed 132 kV interconnection lines for 132kV substation of BIE and the other lines & transformers in the system are within their capacity under normal conditions. In general, the study depicts that the system would be operating well within limits, i.e., the voltage profile at 132 kV substation of BIE and of the surrounding system network and there would be no transmission system constraints in feeding a total load of 45MW/50MVA to 132 kV BIE substation through the proposed interconnection scheme.

The load flow studies have also been carried out for the single line contingency (N-1) analysis in the vicinity of the proposed 132 kV substation of BIE and are attached as Exhibit #8-15. The results of contingency studies have been summarized as under:

Exhibit #	Circuit Outage	Remarks
8	Ludewalan – Bhalwal 132 kV single circuit out	Power flows on the other transmission lines and transformers as well as the voltage profile of the system remain within limits.

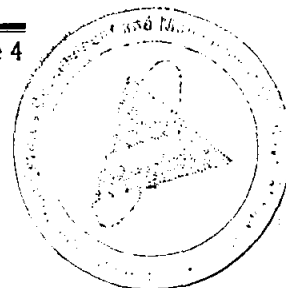


Exhibit #	Circuit Outage	Remarks
9	Ludewalan – S.PR.Noon 132 kV single circuit out	-do-
10	S.PR.Noon – BIE 132 kV single circuit out	-do-
11	BIE – Bhalwal 132 kV single circuit out	-do-
12	Bhalwal - Bhera Industrial 132 kV single circuit out	-do-
13	Bhera Industrial – Head Faqiran 132 kV single circuit out	-do-
14	Head Faqiran – Phalia 132 kV single circuit out	-do-
15	Bhalwal – Bhabra 132 kV single circuit out	-do-

4.3 Conclusion of Load Flow Analysis

The power flow over the proposed 132-kV interconnection lines for 132 kV substation of BIE and the other lines & transformers in the system are within their capacity under normal conditions. In general, the study depicts that the system would be operating well within limits, i.e., the voltage profile at 132 kV substation of BIE and of the surrounding system network and there would be no transmission system constraints in feeding a total load of 45MW/50MVA to BIE through the proposed interconnection scheme.

It is worth mentioning that due to FESCO network constraints in year 2018 there will be no N-1 contingency provision in Single circuit line from 132 kV Bhalwal to Head Faqiran, but with the induction of 220/132 kV Head Faqiran Substation station and the proposed interconnection scheme for 132 kV substation of BIE will enable FESCO to feed this area not only in normal condition but also in N-1 contingency condition.

5. Short Circuit Studies

Short circuit studies have been carried out to compute three phase and single phase fault levels at 132 kV substation of Bhalwal Industrial Estate fed through the proposed interconnection scheme.

5.1. Methodology and Assumptions

The methodology of IEC 909 has been applied in the short circuit analysis in this report for which provision is available in the PSS/E software which is used for these studies.

The maximum fault currents have been calculated with the following assumptions under IEC 909:

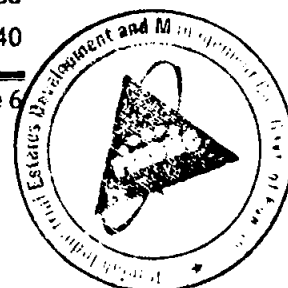
- Set tap ratios to unity
- Set line charging to Zero
- Set shunt to zero in positive sequence
- Desired voltage magnitude at bus bars set equal to 1.10 P.U. to compute maximum the short circuit levels.

5.2. Fault Current Calculations

The short circuit studies have been carried out with proposed interconnection scheme for the future scenario of year 2022. The results of the short circuit studies are summarized as under:

Name of Substation	Voltage (kV)	Maximum Short Circuit Levels (kA)	
		Three Phase	Single Phase
BIE- 132Kv	132	10.96	7.57
BIE-I 11kV	11	20.73	21.87
BIE-II 11kV	11	20.73	21.87

Although, the maximum short circuit level is around 10.96 kA at 132kV substation of Bhalwal Industrial estate in year 2022, however, in consideration of future developments in NTDC and FESCO networks in its surrounding in long term perspective, the short circuit levels of 132 kV substation of BIE are expected to rise. Therefore, it is suggested to design 132 kV switchgear equipments of BIE substation with short circuit ratings of 40



kA. Short circuit study for the peak load Aug/ Sept 2022 under normal system condition is attached as Appendix-2.

6. Conclusions and Recommendations

- a) The following interconnection scheme has been studied and proposed for reliable supply of power to Bhalwal Industrial Estate;
- A new 132 kV substation (BIE) with 2x40MVA, 132/11 kV transformers. (1st 40 MVA transformer would be required in the initial stage and the 2nd 40MVA transformer would be required in later stage depending on load demand of BIE)
 - 24 MVAR capacitor at 132 kV BIE substation.
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 - A 132kV double circuit transmission line, approx. 7 km long on Rail conductor for looping In/Out of existing 132 kV Ludewala – Bhera Industrial single circuit line at 132 kV BIE substation.
- b) The proposed 132 kV interconnection scheme has been found reliable for 132 kV substation of Bhalwal industrial estate for 9MW/10MVA load with one 40MVA 132/11 kV transformer in year 2018 and 45MW/50MVA load with two 40MVA 132/11 kV transformer in year 2022 and there will be no overloading and/or any network constraints at/around BIE under normal and N-1 contingency conditions.
- c) The maximum short circuit level is around 10.96 kA at 132 kV substation of Bhalwal industrial estate; however, in consideration of future developments in NTDC and FESCO networks in its surrounding in long term perspective, the short circuit levels of 132 kV switchgear of BIE are expected to rise. Therefore, it is suggested to design 132 kV substation equipment of BIE substation with short circuit ratings of 40 kA.



PUNJAB INDUSTRIAL ESTATES
DEVELOPMENT AND MANAGEMENT COMPANY
A Company setup under Section 42 of the Companies Ordinance, 1984 (now Companies Act, 2017)



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____ June 2022

Expected Life of the Facility or the System

We hereby inform that the expected life of the facility or the system would be 50-years at Bhalwal Industrial Estate, In Shah ALLAH.

Chief Engineer-PIEDMC