BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

PETITION FOR THE GRANT OF DISTRIBUTION LICENSE

ON BEHALF OF DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED (DESCO)

Dated: 02 October 2024

Legal Consultants

RIAA Barker Gillette

3rd Floor, 65-W, Executive Heights, Block H, Fazl-ul-Haq Road, Blue Area, Islamabad Tel: (051) 111-LAWYER Fax: (051) 2852427-30 www.riaabarkergillette.com



DHA Energy Supply Company (Pvt.) Ltd

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Date 2nd Sep 2024

Registrar

National Electric Power Regulatory Authority (NEPRA)
NEPRA Tower,
Ataturk Avenue (East)
G-5/1
Islamabad

Subject: DHA Energy Supply Company (Private) Limited – Application for a Distribution License

I, Usman Rafique, Director, being the duly authorized representative of DHA Energy Supply Company (Private) Limited ("DESCO") by virtue of Board Resolution dated 2nd Sep 2024, hereby apply to the National Electric Power Regulatory Authority for the grant of a distribution (supplier of last resort) license for capacity of 10 MW to DESCO pursuant to section 20 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997.

I hereby certify that the documents-in-support attached with this application are prepared and submitted in conformity with the provisions of the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, and undertake to abide by the terms and provisions of the above-said regulations. I further undertake and confirm that the information provided in the attached documents-in-support is true and correct to the best of my knowledge and no material omission has been made.

A Pay Order in the sum of Rupees PKR 1,354,586/- being the license application fee calculated in accordance with Schedule II to the National Electric Power Regulatory Authority Licensing (Application, Modification, Extension and Cancellation) Procedure Regulations, 2021, is also attached herewith.

Date: 2nd Sep 2024

USMAN RAFIQUE

DIRECTOR

DHA Energy Company (Private) Limited -

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Registrar

National Electric Power Regulatory Authority (NEPRA) NEPRA Tower, Ataturk Avenue (East) G-5/1 Islamabad

Dear Sir,

Subject:

Application filed by DHA Energy Supply Company (Private) Limited For Grant of the

Distribution License

Reference: Your Letter No. NEPRA/R/LAD-100/DESCO/373 dated 14 January 2025

We write on behalf of DHA Energy Supply Company (Private) Limited ("DESCO") in relation to the Distribution License application submitted by DESCO to the Authority for the grant of electric power ("Distribution License").

Objections have been raised by NEPRA, citing the absence of required documents. In light thereof, we have addressed the objections raised and provided the supporting documents in the table below.

	Information required under Schedule-I (Minimum Solvency Requirement)					
	All other applicants for distribution and supplier of last resort license in a specific service territory shall have and maintain the following solvency requirements for both the businesses:					
(i)	shall have and maintain minimum long-term credit rating of "A" from a credit rating agency licensed by the SECP and submit a report to the Authority at the time of application					
	DHA Energy Supply Company (Pvt.) Ltd. (DESCO) is a subsidiary of the Pakistan Defence Housing Authority, Karachi (PDHOA), a highly respected and reputable organization.					
	DESCO operates as a Private Limited company and was established to secure the necessary license from NEPRA and manage the supply and distribution of electricity in DHA City, a flagship project of PDHOA Karachi spanning approximately 22,000 acres.					
	• It is submitted that applicant has initiated the process for seeking minimum long term credit rating of 'A' from credit rating agency licensed by the SECP and shall submit the same to the Authority at the time of issue of the Licence.					
	(i)					

		 It is therefore requested that the Authority may kindly waive off the said requirement at this stage and proceed with the publication of Notice for Seeking Comments for grant of Electrical Distribution License to the Applicant.
	(ii)	shall have and maintain minimum current ratio of 1:1
		DESCO's audited financial accounts for 2022/23 report a current ratio of 3.55 : 1 [Ref : Financial Accounts 2022/23 "Annex C-3"]
	(iii)	shall have and maintain minimum paid-up capital of one hundred and fifty million rupees
		 As per the audited financial accounts for 2022/23, DESCO's authorized capital stands at Rs. 100 million, with a paid-up capital of Rs. 10 million. Additionally, PDHOA Karachi, DESCO's parent company, has purchased assets worth Rs. 483 million for use in DHA City. These assets are recorded as CAPEX in PDHOA's financial books and will be transferred to DESCO against the issuance of shares. [Ref: Financial Accounts 2022/23 "Annex C-3" and Supply Application Chapter V [Financial & Tech Proposal with list of electrical installed infra]
		 To facilitate this transfer, DESCO's paid-up capital will increase from Rs. 10 million to Rs. 500 million, meeting NEPRA's minimum paid-up capital requirement. We assure NEPRA that these transactions will be completed before the license is issued.
		 The limited assurance report by M/s Hassan Naeem & Co., detailing the electrical assets in DHA City, is attached for your reference.
	(iv)	shall have and maintain minimum net worth of five hundred million rupees
		 PDHOA Karachi has acquired assets worth Rs. 3,014 million for use in DHA City. These assets, currently recorded in PDHOA's financial books, will be transferred to DESCO's financial records, resulting in an increase in DESCO's net worth by at least Rs. 3,014 million. This will ensure compliance with NEPRA's minimum net worth requirement. [Ref: Supply Application Chapter V [Financial & Tech Proposal with list of electrical installed infra]
		We provide full assurance that the asset transfer and related financial transactions will be finalized prior to the issuance of the license by NEPRA.
		The limited assurance report by M/s Hassan Naeem & Co., detailing these assets, is attached for your review.
11		 Information required under Schedule II (Minimum technical and human resource requirement to meet all of its service-level commitments)
i		Minimum Technical Resources Requirement: shall have or develop the following minimum technical resources:
	(i)	infrastructure and equipment to construct, operate & maintain transmission and distribution network in its service territory
•.		• For the construction of electric facilities, DHA City engages reputed contractors. A list of such contractors, along with documentary evidence of the contracts awarded to them, has already been provided with the license application. [Ref: Annex C-8 and further profile of contractors provide through letter 28-Nov-24]
		<u> </u>

	 As DHA City is currently powered by 2x11 kV Feeders from Lucky Cement Ltd. The operation and maintenance of distribution network are being handled by DHAC in-house technical teams round the clock. 						
	 DHAC is energized through 2x11kV feeder directly connected with Lucky Cement and 1.5MW in-house solar PV system, which is sufficient for power demand for the next 3 years, hence DHAC is not connected with transmission network. 						
(ii)	expertise in installing, operating, maintaining and inspecting electric meters and associated equipment used for recording consumption of electric power for its consumer						
	• Electric meters are being installed through reputed contractors, while their operation and maintenance are efficiently managed by our in-house technical staff. [Ref: Annex C-8 and further profile of contractors provided through letter 28-Nov-24]						
(iii)	software tools to conduct the system studies, prepare the plan for the rehabilitation, expansion and augmentation of transmission and distribution facilities in the respective service territory, which shall be aligned with the transmission system expansion plan prepared by the national grid company						
	 As DHAC is currently powered by 2x11 kV Feeders from Lucky Cement Ltd., there is presently no requirement for the operation and maintenance (O&M) of a transmission network since DHA City does not have a dedicated transmission facility of its own. 						
	The required software tools and ICT facilities for the distribution network will be arranged and progressively developed on an as-needed basis, once the Supply/Distribution licenses are granted, and DESCO becomes operational.						
(iv)	v) software tools for demand forecasting						
	Ref Sr.(iii) above						
(v)	tools and plants required for the human and equipment safety						
	List attached						
(vi)	expertise in design and execution of civil and electrical works						
	Ref Sr.(ii) above						
(vii)	secured Information and Communication Technology (ICT) infrastructure for operation & control of its transmission and distribution facilities and for coordination with the system operator and the transmission licensees						
	Ref Sr.(iii) above						
	Minimum human resources requirement						
	All applicant shall employ at least forty percent of their sanctioned strength at all the times in order to perform their functions and duties						
	Explanation: The "sanctioned strength" shall mean the number of posts in various scales and cadres, which have been duly approved by the board of directors of an applicant						
	(iii) (iv) (v) (vi)						

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• The details of engineers and technical staff already engaged with DHA City, including their CVs and relevant experience, have been submitted with the license application. [Ref : Annex C-7 and further profile of technical staff provided through letter dated 28-Nov-24]

Additionally, DHA City ensures compliance with maintaining 40% of the sanctioned strength in various cadres and scales at all times to meet operational and regulatory requirements.

We trust that you will give our application your due consideration and should you require further information or clarification, the same will be provided subsequently.

Thank you for your time and attention to this matter.

Sincerely,

RIAA Barker Gillette

For and on behalf of DHA Energy Supply Company (Private) Limited

Dated: 28-01-2025

Item V- Tools and plants required for human and equipment safety

PPEs for Human User Safety (Revised)

- 1. First Aid Kit
- 2. Flame Resistance HT Safety Suit (Dangri)
- 3. Safety Helmet with chain strap
- 4. Insulated HT 11 kV Safety gloves with complete set
- 5. Dielectric Safety boots
- 6. Face shield (arc-rated)
- 7. Safety Harness and Lanyard (Ropes and straps)
- 8. Protective eye wear
- 9. Goggles
- 10. Dielectric rubber mats
- 11. Rubber Sleeves for arm protection
- 12. Respirator
- 13. Warning Signage and barriers
- 14. Rescue rods
- 15. Emergency Lights
- 16. High visibility Vest
- 17. Fire-Resistant Blanket
- 18. Gas Detector
- 19. Communication devices
- 20. Grounding Equipment (Portable earthing rods and clamps)
- 21. Pole Climbers

Tools for Equipment Safety

- 1. Voltage Detector (HT & LT)
- 2. Megger tester
- 3. Clamp Meter
- 4. Multi meter
- 5. Required insulated tools
- 6. Blower
- 7. Dryer Blower Machine

- 8. Air compressor
- 9. Infra-red thermometer
- 10. Crimping tools
- 11. Fire Extinguishers
- 12. Truck Mounted Hydraulic ladder with insulated bucket
- 13. Conductor Stringing tools
- 14. Cable Avoidance tools
- 15. Cable Fault Locaters
- 16. Portable Generator
- 17. Insulated Ladder



DHA Energy Supply Company (Pvt.) Ltd

2/B East Street, Phase-I, DHA, Karachi-75500 Ph: (+92-21) 111-589-589 Fax (+92-21) 35886406

EXTRACTS FROM RESOLUTION PASSED BY THE BOARD OF DIRECTORS OF DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

Dated 2nd Sep 2024

RESOLVED that DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED (the "Company") shall apply for a distribution license in respect of the Company's upto 10 MW distribution project in DHA City Karachi, KM-50, Motorway M-9, in the province of Sindh (the "Project"), and in relation thereto, sign all requisite documentation, pay all applicable fees, and undertake all other necessary and ancillary acts and deeds.

RESOLVED FURTHER that an application for a distribution license be made to NEPRA with regards to the Project (the "License Application").

RESOLVED FURTHER that Mr. Usman Rafique bearing CNIC No. 42501-8808302-7, Director of the Company, be and is hereby authorized to sign the License Application and any documentation ancillary thereto, represent before and provide any information required by the National Electric Power Regulatory Authority in relation to the License Application, do all lawful acts and deeds necessary and ancillary for the processing, completion and finalization of the License Application, and authorize legal advisors to represent the Company before the National Electric Power Regulatory Authority in respect of the License Application.

CERTIFIED TO BE TRUE COPY

HASEEB HAFEEZUDDEEN

DIRECTOR

DIRECTOR

Bambed dun

DHA Energy Supply Company (Private) Limited

CERTIFICATION

CERTIFIED, that, the above resolution was duly passed by the Board of Directors of DHA Energy Supply Company (Private) Limited in their meeting held on 2nd Sep 2024, for which the quorum of directors was present.

FURTHER CERTIFIED, that the said resolution has not been rescinded and is in operation and that this is a true copy thereof.

HASEEB HAFEEZUDDEEN

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DHA Energy Supply Company (P

VAKALATNAMA

I, USMAN RAFIQUE S/o Mr. GHULAM RAFIQUE AHMED, bearing CNIC No. 42501-8808302-7, the Director, hereby appoint and constitute MR. NADIR ALTAF, Mr. MUHAMMAD FAHIM KHAN, MS. NOOR TARIQ AND MS. SOHA ABID of M/S RIAA Barker Gillette to appear and act for DHA Energy Supply Company (Private) Limited as our legal advisors in connection with preparation, filing and follow up of the application before the National Electric Power Regulatory Authority for a distribution license in respect of 10 MW distribution project in DHA City Karachi, KM-50, Motorway M-9, in the province of Sindh and represent us in connection therewith.

The above-mentioned legal advisors, or any of them, are also authorized to do all acts and things necessary for the processing, completion, acceptance, and finalization of the application for supply license with the National Electric Power Regulatory Authority.

~Dated: 9th Sep 2024

Jsman Rafique (Retd)

For and on behalf of

DHA Energy Supply Company (Private) Limited

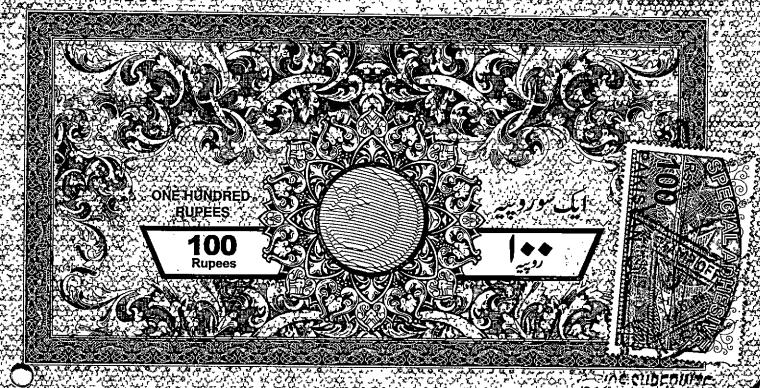
RIAA Barker Gillette

Third Floor 65-W Executive Heights, Fazal e Haq Rd, G 7/2 Blue Area,

Islamabad

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Muhammad Rafay Stamp Vendor LIC No.47, Shop No. Z-M F-South Malir, Jinnah Squarg, Khrachi

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23 AUG 2024

BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

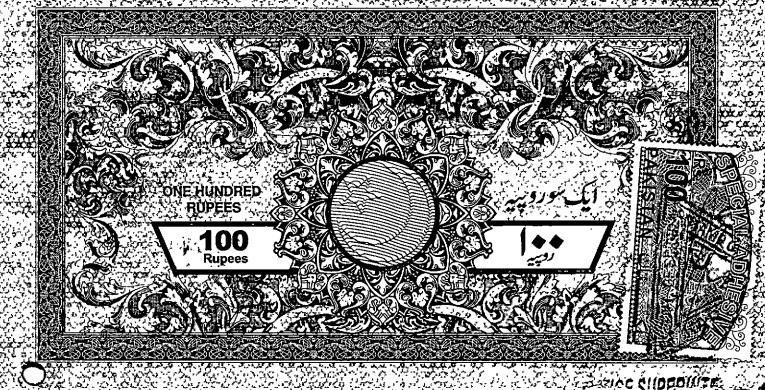
I, Usman Rafique S/O , Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that the contents of the accompanying application of DHA Energy Supply Company (Private) Limited for a distribution license, including all attached documents-insupport, are true and correct to the best of my knowledge and belief and that nothing has been concealed.

(DEPONENT)

Usman Rafique

Director

Dated 11 Sep 21



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27 AUG 2024

Stamp Office, City Court Karachi -

DATE: -Yousuf ISUED TO WITH ADDRESS ... HEGUCH WITH ADDRESS itamp vundor signature 🚽

(Advocate)

23 AUG 2024

BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique S/O, Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that DESCO applied for a distribution license vide application dated 16.06.2017. The Sindh High Court however issued a stay order against the processing of this application in Suit No. 2259/2017. This application by DESCO has remained pending with NEPRA till date, however, due to the promulgation of the NEPRA Amendment Act, 2018 it may be considered infructuous. DESCO has not been granted any other license, till date, under the NEPRA Act, 1997. DHA Energy Supply Company (Private) Limited has also not been refused the grant of any license under the NEPRA Act, 1997.

(DEPONENT)

Usman Rafique

Director

COMPANY INFORMATION

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PETITION:

For the grant of Distribution License on behalf of DHA Energy Supply

Company (Private) Limited ("DESCO" or "Petitioner")

LEGAL REGIME

Under the Regulation of Generation, Transmission and Distribution of Electric Power Act (Act No. XL of) 1997 (the "NEPRA Act"), the Authority is mandated to, *inter alia*, grant licenses for generation, transmission, distribution and supply of electric power and perform such functions which are consequential or incidental thereto.

The Petitioner has filed this petition for the grant of a distribution license (the "DL Petition") before the National Electric Power Regulatory Authority (the "NEPRA" or the "Authority") pursuant to Section 20 of the NEPRA Act, the NEPRA Licensing (Distribution) Rules 1999 (the "Licensing Rules") and other enabling provisions of NEPRA Rules, Regulations, Codes and Applicable Documents.

Specifically, the Petitioner's distribution network will be located at the North-East of Karachi and is accessed by Karachi Hyderabad Super-Highway M-9 ("DHAC") for the sole and exclusive distribution of power to the real estate project located at DHAC.

The intended area falls within the service territory of the Karachi Electric Limited ("KEL") pursuant to its distribution license No. DL/09/2024 dated 19.01.2024. Having stated the foregoing, the DHAC is not connected to KEL's distribution and supply network.

In light thereof, the Authority is empowered under the NEPRA Act to allow the Petitioner to distribute power in the DHAC.

THE PETITIONER - DESCO

The Petitioner is a 'special purpose vehicle' of the DHA Karachi (referred to as the "Sponsor"), incorporated and existing under the laws of Pakistan. Copies of the Certificate of Incorporation, the Memorandum of Association and Articles of Association of the Petitioner are appended as Annexes A-1 and A-2.

The Petitioner has an authorised capital of PKR 100,000,000 and paid-up capital of 10,000,000 divided into 1,000,000 ordinary shares of PKR 10 each.

The Petitioner has been incorporated by its Sponsor to *inter alia* undertake the development of distribution and supply network at DHAC. To make the DHAC functional for the residential and commercial entities set-up therein and to provide seamless electric power connectivity, the Petitioner now seeks to develop its own distribution and supply network for the DHAC and is currently in the process of laying the required distribution infrastructure.

The Petitioner intends to procure power for distribution to the DHAC from Lucky Cement and other generators located in the vicinity. Lucky Cement commitment to sell power to DESCO for this purpose is evidenced in the letter dated 10.09.2024, appended as **Annex B**.

The objectives of the Petitioner will include *inter alia* engaging in the activities relating to the business of construction, ownership, management, control, operation and maintenance of the electricity distribution lines, electrical distribution facilities, electrical circuits, transformers and

sub-stations as well as the movement and delivery of electric power on distribution lines, undertaking distribution activities and distribution business, interconnection services and facilities and the matters connected therewith and incidental thereto.

As the distribution of electric power in Pakistan is a regulated activity, the Petitioner requires permission from the Authority in the form of a Distribution Licence. Separately, the Petitioner has also applied for a Supply License to undertake supply of electric power in DHAC.

THE SPONSOR - DHA KARACHI

DHA Karachi is a statutory body with over decades of experience in the real estate market in Pakistan. DHA Karachi has been primarily involved in the construction and development of key real estate projects in Pakistan.

The composition of the Petitioner's shareholding is as follows:

DHA Karachi [through its subsidiary company DHA Energy Services (Private) Limited] owns 999999 of the paid-up shares.

DHACITY

The DHA City is a real estate project located in North-East Karachi which aims to provide a premium residential facility to cater to that region. DHA City is built on national and international standards with all public facilities required for a modern city.

DHA City Karachi spreads over an area of 22,446 acres with categorized DHAC South (11,680 acres), DHAC North (9,864 acres) and DHAC Shuhda Land (902 acres). It has an uneven, rocky terrain in the Northeast (NE) and Southeast (SE) region whereas Southwest (SW) and Northwest (NW) are mostly plain and even regions.

Purpose of the Distribution Licence

The DHA City is being developed as a real estate project with an in-house power distribution and supply network.

As DHAC is a large-scale real estate project, the reliable distribution and delivery of electric power is critical for the success of the project. DHA Karachi has the financial and technical prowess to set-up a strong distribution network which will meet the needs of the residents in the DHAC.

Needless to say, the provision of a reliable electricity distribution and supply is key to ensuring the viability of the DHAC as a project. Moreover, DHAC eventual self-sufficiency may serve to set a precedent for other housing projects, which in turn will serve to reduce the load on the overburdened distribution companies.

In light of the foregoing, the Petitioner requests the learned Authority to favourably consider this DL Petition for the grant of a Distribution Licence, which will enable the Petitioner to reliably distribute and supply electric power to the zone enterprises of DHAC. The grant of a distribution license to the Petitioner will pave the way towards energy sustainability and electrical reliability for other similar projects in the country.

The Petitioner has constituted a team of experts and consultants to undertake the proposed distribution activities. The profiles of the Petitioner's management staff are appended with this DL Petition as **Annex C-6** as per the requirement of the NEPRA.

DETAILS AND SALIENT FEATURES OF THE DISTRIBUTION LICENCE

The proposed distribution and supply infrastructure and the line route to be constructed by the Petitioner are fully explained in **Annexe F-1 to F-18**, including the Load Flow Study, etc.

FINANCIAL STRENGTH

The Petitioner' primary sponsor, DHA Karachi, has demonstrably strong financial capabilities to fund the development of proposed distribution network. Evidence of the financial strength of the both the Petitioner and DHA Karachi is appended as **Annex C-1 to C-5**.

SYSTEM STUDIES & SPECIFICATION OF EQUIPMENT

The Petitioner has reviewed the relevant technical details of the distribution infrastructure to be established with necessary specifications including the control and protection system.

The distribution infrastructure established by the Petitioner will be compliant with the requirements of the applicable environmental laws and policy and the infrastructure and routing alternatives of the Petitioner will be based on such environmental considerations including construction activities, right-of-way clearing and impacts of construction and operation of towers, access roads, substations and related facilities.

METERING & TESTING FACILITIES

The details relating to metering and testing etc. are appended with this DL Petition as Annex F-17.

O&M, Training & Development

The Petitioner shall implement the operation & maintenance, training and development programmes that meet the Authority's approved specifications. These programmes shall be developed before the commencements of operations of the Petitioner. The Petitioner plans to employ, *inter alia*, experienced and trained personnel to carry out the operation and maintenance of the distribution system.

ADDITIONAL INFORMATION

The Petitioner shall provide NEPRA such further or additional information, clarification or explanation as it may require from time to time.

It is respectfully submitted that the Petitioner also requests the Authority to allow it to supplement and submit such information and supporting material that it may deem appropriate.

8 PRAYER

- 8.1 In light of the forgoing, the Petitioner respectfully prays that the learned Authority kindly:
- 8.1.a accept the instant DL Petition and grant the Distribution License to the Petitioner for the purpose of undertaking distribution activities;
- 8.1.b allow such other reliefs which is just, fair, proper, better and necessary in these circumstances.

Dated: 02.10.2024

PETITIONER

DHA Energy Supply Company (Private) Limited

through

RIAA Barker Gillette

3rd Floor, 65-W, Executive Heights, Block H, Fazl-ul-Haq Road, Blue Area, Islamabad Tel: (051) 111-LAWYER Fax: (051) 2852427-30

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Item No. 1

Prospectus

INTRODUCTION TO DEFENCE HOUSING AUTHORITY CITY (DHAC) KARACHI

Defence Officers' Housing Authority intends to develop its mega housing scheme DHAC Karachi on national and international standards, which would be a smart, resident friendly and have a mixed use energy resources along with development of all amenities / public facilities required for a sustainable city.

DHAC, Karachi is towards the North East of Karachi and is accessed by Karachi - Hyderabad Super Highway M-9. DHAC Karachi is situated about 55 km from the Karachi city centre, 26 km from the Karachi Toll Plaza and about 112 km from Hyderabad.

DHAC Karachi spreads over an area of 22,446 acres with categorized DHAC South (11,680 acres), DHAC North (9,864 acres) and DHAC South Extension (902 acres). It has an uneven rocky terrain in the Northeast (NE) and Southeast (SE) region whereas Southwest (SW) and Northwest (NW) are mostly plain and even regions. The DHAC South is planned and is divided into 16 sectors as residential/commercial and a Central Business District (CBD) as a main commercial hub. The sectors are generally further sub-divided into four residential subsectors. Planning of DHAC (South Extension) and DHAC (North) is under planning being done by consultants.

INFRASTRUCTURE & AMENITIES

DHAC Karachi is planned to have world class amenities commensurate to the need of modern living. Special areas are earmarked for universities, schools, hospitals, market, banks, community centers, leisure clubs, playground and Golf Course etc. Freedom of religious actives by various religion/sects/cultures have been judiciously planned by allocating land as Place of worship for different communities residing in DHAC.

Amusement parks, theme parks in the area will become land mark for recognition of DHAC. These parks are planned and being developed by dovetailing profile of the area, high grounds mountainous range in the north-east to give scenic view.



DHAC stands out as a housing scheme that is unparalleled in many respects, offering a wide array of amenities to its residents. The infrastructure is meticulously planned, featuring an extensive network of major and minor roads complemented by well-maintained footpaths, ornamental plants, and aesthetically pleasing streetlights. This thoughtful design extends to beautifully landscaped playgrounds and parks, as well as a comprehensive range of sports facilities, including an international standard golf course, all of which contribute to the scheme's appeal.

ALTERNATE/RENEWABLE ENERGY

Alternate energy arrangements solar energy in addition to conventional energy source etc is placed, in addition has excellent wind corridor and accordingly this is being utilized in planning of wind mills to cater for electricity requirement. Prospective residents will be encouraged to place solar energy system to have energy conservation and greenhouse effect.

BUSINESS OPPORTUNITY

Like other DHA Projects, DHAC has an enormous business environment that will improve the livability with economic opportunities and activities. This takes strength as ARY Laguna a massive business project is launched at DHAC, with more other projects to come.

DHAC is located on Super Highway and can be easily approached by different directions.

DHAC will have all facilities of a modern city of present and future era.

SALIENT FEATURES OF THE FACILITY

OVERVIEW OF DHAC ELECTRICAL DISTRIBUTION DESIGN:

Design of the Electrical Distribution Network for DHAC is a very important task of the project. Analysis of the latest technologies, current industry standards, local field practices and availability of skilled Human Resource have been done with a view of current and future requirements of DHAC residential and commercial users. Electrical network design layout of DHAC is based on n-1 contingency employing state of art equipment and corresponding to NEPRA standards for safe and reliable system.

The DHAC has a vision to build an urban city with adaption of new technologies. Distinctly it has to be a part of global smart cities family, which integrates various technical trends into a single place to facilitate best options to the local residents as well as business community.

Page - 2



Utility Services

In alignment with global best practices, all utility services are installed underground, ensuring a clean and organized environment. The housing scheme is planned to be equipped with its own grid stations, a dedicated telephone exchange, ICT availability/options and a reliable natural gas network, water supply, providing uninterrupted services to the community.

Generation & Distribution

DHAC being developed over a long term strategy, hence to meet the short term power demand, power dispersal in DHAC is planned to be through medium voltage distribution system built inside DHAC. It is an 11kV Integrated Distribution System (IDS) with solar and wind power and small generating sets. With the DHAC own existing generation capacity of 1.5 MW solar and 1.6 MW diesel-sets, DHAC has acquired 5 MW, 2 x 11kV dedicated feeders sponsored by DHAC from Lucky Cement through KE, thus making a total capacity of approx. 8 MW.

The mid-term and ultimate load requirement of power within DHAC is proposed through 132/11kV grid stations spread over area as per load centers, and shall be established in different sectors of DHAC, the development of 132/11kV grid stations shall be carried out as per actual load growth.

Social and Recreational Facilities

DHAC also prioritizes the social and recreational needs of its residents by offering a variety of facilities such as a community center, wedding halls, clubs, and comprehensive educational and healthcare services. These amenities collectively enhance the quality of life and living standards within the community.

Environmental Sustainability

Environmental sustainability is another key focus, managed by a dedicated horticulture department that ensures the green spaces are well-preserved. The scheme also incorporates advanced wastewater treatment plants and has implemented modern methods for the collection and disposal of solid waste, reflecting a commitment to environmental responsibility and the well-being of its residents.



Corporate Social Responsibility

In addition to its residential and environmental features, DHAC demonstrates a strong commitment to corporate social responsibility (CSR). Within DHAC, significant efforts are made to uplift surrounding rural areas, including initiatives to improve educational opportunities. These life-changing efforts aim to empower local communities through education and skills development, creating a positive impact beyond the housing scheme itself.

Expansion and Manpower Development

As part of its expansion and modernization efforts, after establishing a distribution company, which would not only enhance service delivery but also would contribute to local economic growth. The current manpower strength of DHAC stands at [current manpower number], and with ongoing projects and future developments, it is projected that approximately [future manpower number] additional personnel will be required to meet the growing demands of this dynamic community.

K-4 Project and Business Opportunities

The ongoing K-4 project, aimed at addressing Karachi's water supply issues, will not only provide vital resources to DHAC but also create significant business opportunities. Upon completion, it is expected to spur commercial growth and attract investments, benefiting the entire region.

Improved Accessibility via Malir Expressway

The completion of the Malir Expressway is set to revolutionize connectivity to DHAC. This major infrastructure development will significantly reduce travel time, making DHAC more accessible and, in turn, boosting its attractiveness for both residents and investors. The enhanced access is anticipated to drive further economic activity, making DHAC a central hub for future growth.

Community and Social Impact

These combined efforts underline DHAC's dedication to creating a self-sustaining, vibrant community that not only offers a high standard of living but also contributes positively to the broader society.



PROPOSED INVESTMENT

DHAC will arrange the entire financing requirement of the Project for developing the power distribution and supply infrastructure. Furthermore, the following strategic investments avenues can be explored:

- i. Equity from DHAC: The significant source of capital for distribution and supply infrastructure will be through equity injection by the parent company DHA Karachi. The funds will be utilized in procuring the power distribution and supply assets.
- ii. Bank Loans: The other source of funding the distribution and supply infrastructure will be through bank financing. These loans will be obtained to acquire the distribution and supply assets
- iii. Revenue from the Sale of Plots: One of the keystone streams of funding comes through sales of plots. The resulting capital shall be allocated for power distribution and supply infrastructure along with sustenance of these assets.
- iv. Revenue from Power Supply Operations: Once the power distribution and supply network are functional, the resultant income from supplying electricity to residents and commercial entities within the DHAC can be reinvested into the system. This may cover maintenance and further expansion or upgrading of the existing infrastructure.



SOCIAL AND ENVIRONMENTAL IMPACT OF THE PROPOSED FACILITY OR SYSTEM

The Pakistan environmental protection Act, 1997 requires proponents of all projects involving any change in the environment, to submit an environmental impact assessment (EIA) report to the **Sindh Environmental Protection Agency (SEPA)**. According to the environmental assessment procedure, Oct 1997, Schedule-II, Section H (1), Land use studies and urban plans (Large cities) projects require an EIA. Therefore an EIA was prepared for the proposed DHAC Karachi Housing project and approved by SEPA.

The sociological and demographic distinctiveness of the residence and the present city dynamics of Karachi urges for a city with the elements which fulfill the needs of the people and fits on the expectations of the buyers. As depicted in **Table 1-1** both sociological needs and international students are well taken care of in the DHAC planning. More specifically, it is based on the following principles: i.e. the quality of infrastructure, safety, proximity and accessibility, quality environment and sustainability.

Table 1-1: Residential Needs and Aspirations based on Sociological Needs.

Residential Needs and Aspirations	Vision for Master Planning
Quality Infrastructure	Planning design and implementation of infrastructure on the international Standards. Emphasis on Energy and water needs of the city.
Safety and Peace of Mind	All safety features have been incorporated through planning and information technology interventions.
Proximity	Integrated facilities of work, schooling, shopping, and recreation and community activities in close proximity. This has been planned following a hierarchical structure.
Environment	Using international vision plus local experience to provide a beautiful living environment and highest quality of life in Pakistan.
Efficiency and Sustainability	The most energy efficient and sustainable superb of Pakistan with efficient Pedestrian, Cycling, Road Waste system and Alternate energy Solutions.



DHAC as an ecologically green city, which offers its buyers an opportunity for housing, commerce and leisure. These amenities are planned by keeping a vision of the buyers and by adopting international standards.

DHAC spans over a large area. There are some pre-existing communities/goths of local living on the land.

Besides these goths few isolated hamlets of nomads were also found. The biggest settlement found in DHAC is Goth Allah Dad Jokhio, located in the north-east of DHAC having population of about 800 people, established in the 1860's. Most of the population speaks Sindhi and Balochi languages as mother tongue and have comprehension of Urdu Language as well. Major occupations in the village are shepherds, agricultural laborers (haari) and industrial workers. Almost 90% of the population is illiterate with considerable higher male literacy. As obvious from the entire village is a cluster of nuclear housing units connected with small unmetaled tracks. Most of residents are relatives of each other and belong to Jokhio tribe.

Most of the houses are permanent (pakka) or semi-permanent (semi-pukka) with few temporary (katcha) houses. The main source of drinking water is a tube-well and 3-4 small reservoirs (earthen dams) which harvest rain water during monsoon rainfall. A major portion of this water is utilized for the cultivation of the main crops, such as Lobia, Moong, Jawar and Gawar. The routine environmental issues the locals are concerned with are the accumulation of fugitive smoke from the Lucky Cement factories in winter and dynamic sand blasting at the cement factory.

The second village is Goth Karim Dad Jokhio, established in the 1820's and having a population of 300 persons of Jokhio tribe. They speak Sindhi and Punjabi and are located at the eastern bank of the Sukkan River. This small village is quite unique in terms of location as Jamshoro and Thatta districts are just a few meters away from the Goth, on the other side of Sukkan stream. The area is ecologically quite rich and has good agricultural fields or sesame (til), moong, Jawar and Gawar FOR THE SMALL local ECONOMY. The major economy of this Goth is grazing animals and farming. About thirty percent people are literate with very little female literacy. The area is quite disturbed environmentally for the few months of summer because of the Pak Land cement factory located in the South West of DHAC.



These villages and Goths are being taken care off in the overall planning of DHAC maintaining their originality and the same time keeping in view their water, power and energy requirements.

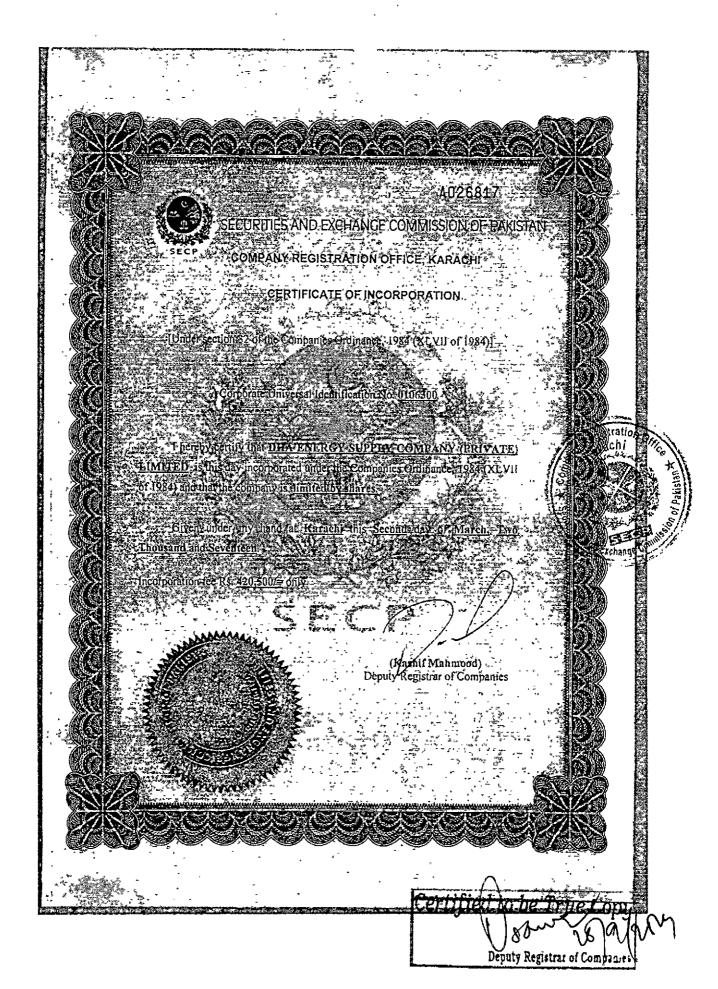
This will improve their quality of life and environmental conditions and will provide better education/ schooling recreation and work/Job Opportunities.

One of the main goals of DHAC is to adopt a holistic and sustainable design and planning approach. In order to achieve reduction of CO₂ emissions, it is essential that energy demands are optimized and energy losses are kept at minimum level. The part of energy generated at site shall be from low Carbon and renewable energy sources like solar, wind and biomass, which has least negative impact on environmental conditions.

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ANNEX - A-2

MEMORANDUM AND ARTICLES OF ASSOCIATION

DESCO's Memorandum and Articles of Association are appended herein below.

THE COMPANIES ORDINANCE, 1984

(COMPANY LIMITED BY SHARES)

MEMORANDUM OF ASSOCIATION

OF

. DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

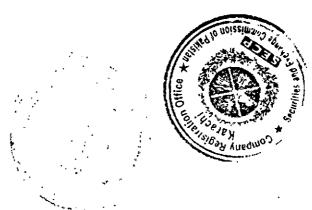
- I. The name of the company is 'DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED' (the "Company").
- II. The Registered Office of the Company will be situated in the Province of Sindh.
- III. The objects for which the Company is established are all or any of the following:
- 1. To carry on all or any of the businesses of generation, transmission, distribution, purchase and sale of electricity and to deal in all goods derived from or relating to such business including but without limitation to, steam, fuel, lignite, coal, ash, conversion of ash into bricks and any other products derived from or connected with any other form of energy, including, but without limitation to conventional sources such as heat, thermal, hydel and/or from nonconventional sources such as tidal wave, wind, solar, geothermal, biological, biogas and coal bed methane.
- 2. To locate, finance, set-up, develop, own, acquire, establish, construct, design, equip, operate, use, manage, invest in and maintain power generation facilities / power plants (including power generation facilities / power plants utilizing wind, hydel, solar, thermal, tidal, coal, gas, diesel oil, and/or any other means of energy or fuel), jetties, power grid station, transforming, switching, conversion, and transmission facilities, distribution facilities, cables, overhead lines, sub-stations, switching stations, tunnels, cable bridges, link boxes, heat pumps, plant and equipment for combined heat and power schemes, offices, computer centers, shops, depots, factories, workshops, plants, warehouses and other storage facilities, together with all machinery, equipment, cables, wires, lines, accumulators, and works ancillary to the aforesaid anywhere in or outside Pakistan and to do all such acts, deeds and things, without limitation whatsoever, as may be necessary or desirable in that connection.
- 3. To buy, sell, hold, acquire or invest the capital and funds of the Company in securities and investments of every kind and description including but not limited to shares, stocks, fixed income securities, modaraba certificate, musharaka certificates, participation term certificates, term finance certificates, mutual fund certificates, units, certificates of investments, commercial papers, debentures, debenture stocks, bonds, obligations or securities issued or guaranteed in Pakistan or abroad by any company

incorporated or registered in Pakistan by the Government or public body or Authority both for short term or long term gains and to realize such gains.

- 4. To acquire or undertake the whole or any part of the business, goodwill, and assets of any person, firm, or company and as part of the consideration for such acquisition to undertake all or any of the liabilities of such person, firm or company, or to acquire an interest in, amalgamate with, or enter into partnership or into any arrangement for sharing profits, or for co-operation, or for mutual assistance with any such person, firm or company, or for subsiding or otherwise assisting any such person, firm or company, and to give or accept, by way of consideration for any of the acts or things aforesaid or property acquired, any shares, debentures, debenture stock or securities that may be agreed upon.
- 5. To carry out all types of services relating to development and operation of business of generation, purchase, sale, transmission and distribution of energy and to perform all other acts which are necessary or incidental to the business of electricity generation, supply, transmission, distribution and trading of energy.
- 6. To develop business plans, feasibility studies, carry out surveys, and do such other activities that are incidental and ancillary to the foregoing, pertaining to the business of power generation, transmission and distribution or such other business as considered appropriate by the directors of the Company from time to time.
- 7. To carry on all or any of the businesses of wholesalers, retailers, traders, importers, exporters, suppliers, distributors, designers, developers, manufacturer, installer, filters, testers, repairers, trainers, maintainers, contractors, constructors, operators, users, inspectors, re-conditioners, improvers, alterers, protectors, removers, hirers, replacers, importers and exporters of and dealers in, electrical appliances, systems, products and services used for energy conservation and generation, equipment, machinery, materials and installations, including but not limited to cables, wires, meters, tracks, rails, pipelines and any other plan, apparatus, equipment, systems and things incidental to the efficient generation, procurement, transformation, supply and distribution of electricity.
- 8. To construct, acquire and maintain roads, bridges, rail sidings, pipelines and storage facilities for water, petroleum products, natural gas, oil, coal and other substances, water desalination and treatment plants, and such other works as may be required for all or any of the above purposes.
- 9. To carry on the business of electrical engineers, electricians, engineers, consultants, agents, suppliers of services and manufacturers of electrical plant, machinery, and generally to install, acquire, execute, provide, operate and maintain all necessary plant, machinery, equipment, cables, wires, accumulators, lamps, exchanges, telephones, and apparatus and to provide any services related or incidental to the business of electricity generation, supply, transmission, distribution and trading of energy.



- 10. To import, export, buy, sell, hire or deal in plant, machinery, equipment, cables, wires, accumulators, lamps, exchanges, telephones, fixtures and fittings and apparatus of every kind with special reference to plant, machinery, equipment or apparatus connected with the producing, storing, supplying, distribution, transmission, using, regulating or measuring the supply or facilitating the use of electricity or electrical currents or force.
- 11. To buy, sell, import, export, hire, manufacture, deal in and turn to account plant, machinery, implements, conveniences, provisions, articles and products capable of being used in connection with the operations of or required by workmen and other employer by the Company or incidentally or conveniently connected with any such business as aforesaid.
- 12. To conduct, promote and commission research of all kinds and research and development activities of all kinds, whether related to the generation, transmission, distribution and supply of electricity or other forms of energy or otherwise, and to exploit and turn to account the results of any such research or research and development carried out by or for the Company.
- 13. To establish laboratories and to employ and promote scientific research and invention, patronize such invention and enter into manufacture in collaboration with outside parties for transfer of technology from abroad and to promote transfer of technology from Pakistan abroad and to carryon business in all other allied fields permissible by law.
- 14. To enter into, make, and perform contracts and arrangements of every kind and description that may be conducive to the Company's object or objects and for any lawful purpose, with the government or authority (public, supreme, municipal or otherwise), and with any firm, person, corporation or company without any limit as to amount, and to obtain from such government, authority, firm, company or persons any rights, privileges, contracts, concessions, charters, subsidies, loans, indemnities, grants, contracts, rights, powers, concessions, privileges or immunities which the Company may think desirable to obtain and to carry out, exercise and comply with any such arrangements, rights, privileges and concessions.
- 15. To sell, lease, improve, manage, develop, mortgage, exchange, turn to account or otherwise deal with, dispose of absolutely, conditionally, or for any limited interest, and grant any leave or license in respect of all or any of the property, rights or privileges of the Company, to improve, manage, develop, grant rights or privileges in respect of, or otherwise deal with all or any part of the property and rights of the Company, and to distribute in specie as dividend or bonus any money, shares, debentures, or debenture stock that may be accepted as consideration for any such sale, lease, exchange or other disposition.



- 16. To pay for technical know-how, technical and engineering assistance and information and/or service rights or privileges acquired by the Company in a manner the Company deems appropriate, either by cash or through its shares.
- 17. To train personnel and workers both in Pakistan and abroad, to obtain technical proficiency in various specialties connected with the business of the Company.
- 18. To establish and support or aid in the establishment and support of associations, institutions, funds and conveniences calculated to benefit persons who are or have been directors of, or who have been employed by or who are serving or have served the Company or any other company which is a subsidiary or associate of the Company or the dependents of such persons and to grant pensions, gratuities, allowances, relief and payments in any other manner calculated to benefit the persons described herein.
- 19. To amalgamate, enter into partnership, or to make any arrangement for sharing profits, union of interests, co-operation, joint-venture, reciprocal concession or otherwise with any person, firm or company and to have foreign collaborations and to pay royalties/technical fees to collaborators subject to the applicable laws.
- 20. To purchase or otherwise acquire any patents, inventions, trademarks, licenses, concessions and the like conferring any exclusive or non-exclusive or limited right to use any invention which may seem capable of being used for any of the purposes of the Company or the acquisition of which may seem calculated directly or indirectly to benefit the Company, and to use, exercise, develop or grant licenses in respect of or otherwise turn to account, the property and rights so acquired.
- 21. To carry on any other trade or business whatever which, in the opinion of the directors of the Company, can be advantageously carried on independently or in connection with or ancillary to any of the above mentioned business or is calculated directly or indirectly to enhance the value of, or render profitable any of, the property or rights of the Company.
- 22. To purchase, take on lease, or in exchange, hire, apply for or otherwise acquire either solely or jointly and hold for any interest, any rights, privileges, lands, buildings, easements, machinery, plants, stock-in-trade and any movable and immovable property of any kind, necessary or convenient for the purposes of or in connection with the Company's business or any branch or department thereof and to use, exercise, develop, and grant licences in respect of or otherwise turn to account any property, rights and information so acquired, subject to any permission required under the law.
- To establish, promote or assist in establishing or promoting, and subscribe to or become a member of any other company, association or club whose objects are similar or in part similar to the objects of this Company or the establishment or promotion of which may be beneficial to the Company as permissible under law.



- 24. To open accounts with any bank or banks and to draw, make, accept, endorse, execute, issue, negotiate and discount cheques, promissory notes, bills of exchange, bills of lading, warrants, deposit notes, debentures, letters of credit and other negotiable instruments and securities.
- 25. To borrow or raise money by means of local and foreign currency loans, Islamic financing or other legal arrangements from local and foreign banks, or other financial and non-financial institutions, for such purpose or in such manner as the Company may think fit and in particular by issue of debentures, sukuks, or term finance certificates and to provide any type of security to the lenders or investors including by way of hypothecation, charge, lien, pledge, mortgage or assignment.
- 26. To sell or otherwise dispose of the whole or any part of the undertaking of the Company, either together or in portions for such consideration as the Company may think fit and in particular, for shares, debenture-stock or securities of any company purchasing the same.
- 27. To issue all or any part of the original or enhanced share capital of the Company at par or at a premium or discount subject to any permission required by law.
- 28. To pay all costs, charges, and expenses preliminary or incidental, incurred in the formation or about the promotion and establishment of the Company and to remunerate any person, firm or company for services rendered or to be rendered in or about the formation or promotion of the Company or the conduct of its business.
- 29. To apply for and obtain necessary consents, permissions and licenses from any Government, State, Local and other Authorities for enabling the Company to carry on any of its objects into effect as and when required by law.
- 30. To pay for any property, rights or benefits acquired by the Company either in cash or in shares with such rights, in respect of dividend or otherwise, as may be deemed fit by the Company or by any securities which the Company has power to issue or partly in one mode and partly in another and generally on such terms as the Company may approve.
- 31. To distribute any of the Company's property and assets among the members in specie or in any other manner in case of winding up of the Company.
- 32. To guarantee the performance of contracts and obligations of the Company or any other person.
- 33. To take out any insurances that the Company deems necessary or appropriate and to pay the premium thereof.
- 34. To constitute and regulate subsidiaries, separate branches or departments of the Company's business and to appropriate thereto respectively any of the assets of the



Company and any of the capital, issued or to be issued, of the Company and from time to time to vary the constitution or regulations of any such subsidiaries, branches or departments or any such appropriations and if thought fit to amalgamate all or any of the said subsidiaries, branches or departments.

- 35. To procure the Company to be registered or recognized in any country or place outside Pakistan and to keep branch registers.
- 36. To institute and defend in any forum legal proceedings of every kind or description whatsoever, enter into arbitration agreements and refer disputes to arbitration, pay, satisfy or receive payments in respect thereof, or compound or compromise any claim, demand, action, suit or proceeding of any nature whatsoever made or brought by or against the Company.
- 37. To subscribe or guarantee money for any purpose which may be considered likely, directly or indirectly, to further the objects of the Company or for any national, charitable, benevolent, public, general or useful object or for any exhibition.
- 38. To draw, make, accept, discount, endorse and issue promissory notes, bills of exchange, bills of lading and other negotiable or transferrable securities and only in connection with the business of the Company, to advance, deposit with or lend money, securities or property to such governmental or other authority, person, firm or company and on such terms, with or without security, as the Company deems fit.
- 39. To do and perform all other acts as are incidental or conducive to the attainment of the above objects or any of them.
- 40. It is declared that notwithstanding anything contained in the foregoing object clauses of this Memorandum of Association, nothing contained therein shall be construed as empowering the Company to undertake or to indulge in the business of a banking company, forex, illegal brokerage, an investment company, a managing agency, an insurance business or a non-banking finance company, or in any unlawful business directly or indirectly, and the Company shall not launch multilevel marketing, pyramid and ponzi schemes.
- 41. Notwithstanding anything stated in any object clause, the Company shall obtain such other approval or licence from the competent authority as may be required under any law for the time being in force, to undertake a particular business.
- IV. The liability of the members is limited.
- V. The authorized share capital of the Company is Rs. 100,000,000 (Rupees One Hundred Million Only) divided into 10,000,000 (Ten Million) Ordinary shares of the nominal value of Rs. 10 (Ten) each with the rights, privileges and conditions attached thereto as are provided for the time being, with power to increase and reduce the capital of the Company and to divide the shares in the capital for the time being, into several classes.

We the several persons, whose names and addresses are subscribed, are desirous of being formed into a company, in pursuance of this Memorandum of Association and we respectively agree to take the number of shares in the capital of the Company set opposite to our names

Name and Surname (Present & Former) in full (in Block Letters)	sband's Name in	CNIC/ Passport No.	Nationalit y with any former Nationalit y	Occupation	Address	Number of Shares taken by each Subscribe r	Signature
NAEEM AZHAR LONE	MUHAMM AD AZHAR LONE	35201- 9117920- 1	PAKISTA NI	BUSINESS EXECUTIV E	53/1-S, 7 TH COMMERCIA L STREET, PHASE 4, DHA, KARACHI	ONE (I)	/
MUHAM MAD' : RAFIQUE	MUHAMM "AD YASIN KHAN	34101- 6241501- 5	PAKISTA NI	BUSINESS EXECUTIV E	HOUSE NO. SUH-443, STREET 5, ASKARI 5, MALIR CANTT, KARACHI	ONE (I)	
SYED JAMAL ULLAH MACDI	SYED SANA ULLAH MACDI	42101- 1936245- 5	PAKISTA NI	BUSINESS EXECUTIV E	PLOT 6/B-3, D STREET, PHASE 5, DHA, KARACHI	ONE (1)	SM
DHA ENERGY AND SERVICE S (PRIVATE) LIMITED Through its	N/A	N/A	PAKISTA NI	-N/A	2/B, EAST STREET, PHASE-I, DHA, KARACHI, SINDH 75500	NINE HUNDR ED AND NINETY -NINE THOUS AND NINE HUNDR ED AND NINETY	
authorized representat ive		,				-SEVEN (999,997)	

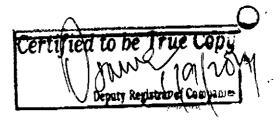
MUHAM MAD RAFIQUE	MUHAMM AD YASIN KHAN	34101- 6241501- 5	PAKISTA NI	BUSINESS EXECUTIV E	HOUSE NO. SUH-443, STREET 5, ASKARI 5, MALIR CANTT, KARACHI	4	X	,
						ONE MILLIO N (1,000,00		

Dated 24 February 2017

Witness to the above signatures: Name: NIFT (Pvt.) Limited

Address: 5th Floor, AWT Plaza, I.I. Chundrigar Road

Karachi- 74200, Pakistan





THE COMPANIES ORDINANCE, 1984

(COMPANY LIMITED BY SHARES)

ARTICLES OF ASSOCIATION

OF

DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

1. TABLE "A" NOT TO APPLY

The Regulations contained in the table marked 'A' of the First Schedule to the Companies Ordinance, 1984, shall not apply to the Company except in so far as the same are repeated or expressly made applicable in these Articles.

2. Interpretation

In these Articles (if not inconsistent with the subject or context or expressly provided to the contrary below) the following words and expressions shall have the following meanings:

"Board" means the Directors collectively or the Directors present at a duly convened meeting of Directors at which a quorum is present, as the context requires.

"Company" means DHA Energy Supply Company (Private) Limited.

"Directors" mean the directors or the alternate director for the time being of the Company, as the case maybe.

"month and year" means the calendar month and the calendar year respectively.

"Member" means the member of the Company as defined in Section 2(1) (21) of the Ordinance.

"Ordinance" means the Companies Ordinance, 1984 (XLVII of 1984).

"Ordinary Resolution" means a resolution passed at a general meeting when the votes cast (whether on a show of hands or on a poll, as the case may be) in favour of the resolution (including the casting vote, if any, of the Chairman) by members who, being entitled to vote in person or by proxy, do so vote, exceed the votes, if any, cast against the resolution by members entitled to vote and voting thereon.

"Register" means a Register of Members to be kept pursuant to Section 147 of the Ordinance.

"Registrar" means a Registrar, an Additional Registrar, a Joint Registrar a Deputy Registrar or an Assistant Registrar, responsible under the Ordinance for the registration of companies.

"SECP" means Securities and Exchange Commission of Pakistan.

"Special Resolution" means a special resolution of the Company as defined in Section 2(1)(36) of the Ordinance.

"Seal" means the common seal of the Company.

References to writing shall, unless the contrary intention appears, be construed as including reference to printing, lithography, photography & other modes of representing, transmitting or reproducing words in a legible & non-transitory form.

Words importing singular number only shall include the plural number and vice versa.

Save as aforesaid any words or expressions defined in the Ordinance shall if not inconsistent with the subject or context, bear the same meaning as in these Articles.

Any reference to statutory provision or enactment shall include any statutory modification or re-enactment thereof.

3. PRIVATE LIMITED COMPANY

The Company is a private limited company within the meaning of Clause (28) of Section 2(1) of the Ordinance.

- (1) No invitation shall be issued to the public to subscribe for any share of the Company.
- (2) The number of the members of the Company shall be limited to fifty, provided that for the purpose of this provision, where two or more persons hold one or more shares in the company jointly, they shall be treated as single member; and
- (3) The right to transfer shares of the Company is restricted in the manner and to the extent hereinafter appearing.

4. BUSINESS

The company is entitled to commence business from the date of its incorporation. The business of the company shall include all or any of the objects enumerated in the Memorandum of Association. The business of the company shall be carried out at such place or places anywhere in Pakistan or elsewhere as the Directors may deem proper or advisable from time to time.

PART II - CAPITAL AND SHARES

5. AUTHORISED SHARE CAPITAL

The authorized capital of the Company is Rs. 100,000,000 (Rupees One Hundred Million) divided into 10,000,000 (Ten Million) Ordinary shares of the nominal value of Rs. Ten (10), each set out in that Clause with power to increase the capital and to consolidate or sub-divide the shares, issue shares of different kinds or classes therein of higher or lower denominations and to vary, modify or abrogate any such rights or conditions in such a manner as may be authorized by the regulations of the Company and subject to applicable laws.

6. ALLOTMENT OF SHARES

- 6.1 The shares shall be under the control of the Board, who may subject to applicable law allot or dispose of the same to such persons, firms, cooperation on such terms and conditions and at any such times as the Board shall think fit. Shares may also be allotted in consideration other than cash.
- 6.2 Shares may be registered in the name of any limited company or other corporate body but not in the name of minor or a firm. Not more than four persons shall be registered as joint holders of any shares.
- 6.3 Subject to the provisions of the Ordinance, the Companies (Issue of Capital) Rules 1996 and these Articles, the Directors may allot and issue shares in the capital of the Company as payment or part payment of any property sold or transferred, land, machinery, goods supplied or any services rendered to the Company in the conduct of its business and any shares which may be so allotted may be issued as fully paid up shares and if so issued, shall be deemed to be fully paid up shares.
- 6.4 The share capital of the Company shall comprise of ordinary shares, and subject as aforesaid the Company may issue shares of a single class or of different classes, but where ordinary shares of more than one class are issued the rights as between the various classes of such shares shall be strictly proportionate to the paid up value of the shares as regards voting, dividends and other benefits.

7. RESTRICTION ON ALLOTMENT

The Board shall as regard any allotments of shares duly comply with such of the provisions of Sections 68 to Section 73 of the Ordinance as may be applicable thereto.

8. COMMISSION AND BROKERAGE

Subject to Section 82 and 83 of the Ordinance, the Company may at any time pay a commission to any person for subscribing or agreeing to subscribe whether absolutely or conditionally for any shares in, or debentures or other securities of the Company or procuring or agreeing to procure subscriptions whether absolute or conditional for any shares or debentures or other securities of the Company, provided that the conditions and requirements set out in the Ordinance shall be observed and complied with. Such commission may be satisfied by the payment of cash or the allotment of fully paid shares, or the issuance of securities or by any combination thereof. The rate of commission and brokerage shall not exceed the rate, if any, from time to time fixed by the SECP.

9. SHARES AT DISCOUNT

The Company may under a Special Resolution and with the consent of SECP and upon otherwise, complying with Section 84 of the Ordinance, the Board may issue shares at a discount.

10. TRUST NOT RECOGNIZED

No notice of any Trust expressed, implied or constructive shall be entered on the Register. The Company shall not, save as ordered by a court of competent jurisdiction, or as by statute required, be bound to recognize any benami, equitable, contingent, future, or partial interest in any share, or any other right in respect of a share, except an absolute right thereto in the person or persons from time to time registered as the holder or holders thereof.

11. REGISTER

- 11.1 The Company shall keep a Register in accordance with Sections 147, 149 and 156 of the Ordinance.
- 11.2 The Register shall be prima facie evidence of any matters the Ordinance directs or authorizes to be inserted therein.





The certificates of title of shares shall be issued under the Seal and signed by at least two Directors. Every share certificate shall specify the number and class and the distinguishing number (if any) of the shares to which it relates. A Director's signature on such certificates may be affixed or printed by any mechanical or electronic method. No share certificate shall represent shares of more than one class.

13. MEMBERS RIGHTS TO CERTIFICATES

Every person whose name is entered as a Member in the Register of Members shall, unless the conditions of issue of the shares otherwise provide, be entered without payment to receive within sixty (60) days after the allotment or within forty five (45) days of the application for the registration of the transfer of any shares of the Company, a certificate under the Seal specifying the shares held by him/her and the amount paid up thereon. If any Member shall require additional certificates he/she shall pay for each such certificate, a sum not exceeding Rs.10/- or otherwise as the Board may determine, provided that in respect of any share held jointly by several persons the Company shall not be bound to issue more than one certificate, and delivery of the certificate for a shares to one of the several joint holders shall be sufficient delivery to all.

14. ISSUE OF NEW CERTIFICATES

- 14.1 Subject to the provisions of Section 75 of the Ordinance, if a share certificate is defaced, lost or destroyed, it may be renewed on payment of such fee (if any) not exceeding Rs.10/and on such terms (if any) as to evidence and indemnity and the payment of expenses incurred by the Company in investigating evidence, as the Board thinks fit.
- 14.2 Where some of the share comprised in a share certificate are transferred the old certificate shall be cancelled and a new certificate for the balance of such shares be issued without charge.
- 14.3 The shares are indivisible but more than one person may have a share in one share but shall be represented by one person towards the Company. The shares may not be represented by negotiable instruments.

PART IV - TRANSFER AND TRANSMISSION OF SHARES

15. TRANSFER OF SHARES

15.1 Every transfer of shares must be in writing in the form specified in Article 16.2 herein or in any other form that the Board may approve and must be left at the office accompanied by the certificate or, if no such certificate is in existence the letter of allotment of the shares to be transferred and such other evidence, if any, as the Board may require to prove the title of the intending transferor of his her right to transfer the shares.

15.2 The shareholders and Directors of the Company have a right of priority in the event of one of the shareholders alienating some or all of his/her shares. But any transfer whether to the shareholders or to the Directors of the Company or to third parties must follow the provisions of the applicable law.

16. EXECUTION OF TRANSFER

- 16.1 The instrument of transfer of any share should be duly stamped and executed both by the transferor and the transferee and the transferor shall be deemed to remain the holder of such shares until the name of the transferee is entered in the Register of Members in respect thereof. Each signature of such transfer shall be duly attested by the signature of one witness who shall add his/her address and occupation.
- 16.2 Shares in the Company shall be transferred in the following form, or in any usual or common form which the Directors shall approve:

sum of Rupees	
Signature Transferor	Signature Transferee
	Full Name
	Full Address
Witness	Fathers/Husband's name
	Nationality
	Occupation
Signature Full Address	
Signature	••

17. CASES IN WHICH THE DIRECTORS SHALL REFUSE TO REGISTER TRANSFER

The Directors may refuse to register any transfer of any fully paid shares if:

- (a) the transfer deed is for any reason defective or invalid, provided that the Company shall within thirty (30) days, from the date on which the instrument of transfer was lodged with it, notify the defect or invalidity to the transferee who shall after removal of such defect or invalidity be entitled to re-lodge the transfer deed with the Company; or
- (b) the transfer is in breach of the provisions of Article 16;

If the Company refuses to register the transfer of any share for the reason specified in Article 16, the Company shall within thirty (30) days after the date on which the instrument of transfer was lodged with it, send to the transferee notice of the refusal indicating the reason for such refusal.

18. NO TRANSFER TO AN INSOLVENT OR PERSON OF UNSOUND MIND

No transfer shall be made to an insolvent or person of unsound mind.

19. TRANSMISSION OF REGISTERED SHARES

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The executors, administrators, heirs or nominees, appointed under Section 80 of the Ordinance as the case may be, of a deceased Member not being one of several joint holders shall be the only persons recognized by the Company having any title to the shares registered in the name of such Member. In case of death of any one or more of the joint holders of any shares the survivor or survivors shall be the only persons recognized by the Company as having any title to or interest in such share. Before recognizing any executor, or administrator the Board may request him/her to obtain a grant of Probate or Letters of Administration, Successions Certificates or other legal representation(s) as the case may be from a competent court provided nevertheless that where the Board in its absolute discretion thinks fit it shall be lawful for the Board to dispense with the production of Probate or Letters of Administrator or Succession Certificates or such other legal representation(s) upon such terms as to indemnity or otherwise as the Board in its absolute discretion may consider necessary.

20. RIGHT OF PERSONS ENTITLED TO SHARES UNDER ARTICLE 19

A person so becoming entitled under Article 19 shall subject to the right of the Board to retain such dividends or monies as hereinafter provided have the right to receive and give a discharge for any dividend or other monies payable or other advantages arising in respect of the shares but he/she shall have no right to attend or vote at meetings of the Company or save as aforesaid to any of the rights or privileges of a Member in respect of the shares unless and until he/she shall be registered as the holder thereof.

21. DIRECTOR MAY DECLINE TO REGISTER PERSONS ENTITLED BY TRANSMISSION

The Directors shall have the same right to refuse to register a person entitled by transmission to any shares or his/her nominee as if he/she were the transferee named in any ordinary transfer presented for registration.

22. CLOSURE OF REGISTER

The Company may on giving seven (7) days previous notice in the manner prescribed in the Ordinance, close the Register for any period not exceeding in the aggregate forty-five (45) days in each year but not exceeding thirty (30) days at any one time.

23. TRANSFER OF DEBENTURES

The provision relating to transfer of shares herein contained shall apply mutatis mutandis to transfer of debentures and other securities of the Company.

PART V - ALTERATION OF CAPITAL

24. POWER TO INCREASE CAPITAL

The Company may, from time to time, increase its share capital in accordance with the provisions of the Ordinance.

25. SHARES TO BE OFFERED TO EXISTING MEMBERS

- 25.1 All new shares shall be offered in the first instance to the Members in proportion as nearly as the circumstances admit to the existing shares held by each Member and such offer shall be made by notice specifying the number to which the Member is entitled and limiting a time within which the offer if not accepted will be deemed to be declined.
- 25.2 After expiration of the time for acceptance of an offer of new shares specified in paragraph 25.1 of this Article or on receipt of an intimation from the Member to whom such notice is given that he/she declines to accept the shares offered, the Board may, subject to the provisions of Section 86 of the Ordinance, dispose of the same in such manner as they think most beneficial to the Company.

26. RANKING OF NEW SHARES WITH THE ORIGINAL CAPITAL

The new shares shall be subject to the same provisions with reference to transfer, transmission, and otherwise as the shares in the original share capital.

27. REDUCTION OF SHARE CAPITAL

The Company may, by Special Resolution, reduce its share capital, in any manner subject to the provisions of the Ordinance.

28. CONSOLIDATION AND SUB-DIVISION

Subject to the provisions of Section 92 of the Ordinance, the Company may, by Ordinary Resolution:

- (a) Consolidate and divide the whole or any part of its share capital into shares of larger nominal value than its existing shares.
- (b) Sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the Company's Memorandum of Association, subject nevertheless, to the provisions of clause (d) of sub-Section (1) of Section 92.
- (c) Cancel any shares which at the date of the passing of the Ordinary Resolution in that behalf have not been taken or agreed to be taken by any person.

PART VI - GENERAL MEETINGS

"29. ANNUAL GENERAL MEETINGS

The Company shall hold in addition to any other general meeting, a general meeting as its annual general meeting, within eighteen months from the date of its incorporation and thereafter at least once in every calendar year within a period of four months following the close of its financial year and not more than fifteen months after the holding of its last preceding annual general meeting.

30. EXTRAORDINARY GENERAL MEETING

All general meetings of the Company other than the annual general meeting shall be called extraordinary general meetings ("EGM"). The Board may whenever it thinks fit convene an EGM and an EGM shall also be convened on such requisition, or, in default may be convened by such requisitions, as provided by Section 159 of the Ordinance. An EGM may be held in such places as the Board may determine.

32. NOTICE OF MEETINGS



All general meetings of the Company shall be called by not less than twenty-one clear days' notice in writing. The notice shall specify the place, the day and the hour of the meeting along with a statement of the business to be transacted at the general meeting and in case of special business, a the general nature of that business, shall be given in the manner provided by the Ordinance for the general meeting, to such persons as are, under the Ordinance or the regulations of the Company entitled to receive such notices from the Company; but the accidental omission to give notice to, or the non-receipt of notice by, any Member shall not invalidate the proceedings at any general meeting.

33. PROXIES

In every notice calling a meeting of the Company there shall appear with reasonable prominence a statement that a Member entitled to attend and vote is entitled to appoint a proxy to attend the vote in his/her stead and that a proxy need not be a Member.

34. ENTITLEMENT TO RECEIVE NOTICE AND ARRANGEMENT FOR MEETINGS

Subject to any restrictions contained in the Ordinance or in any of the Articles every Member shall be entitled to attend a general meeting in person or by proxy.

35. BUSINESS AT GENERAL MEETINGS

All business that is transacted at an EGM shall be deemed special, and also all that is transacted at an annual general meeting with the exception of declaring a dividend, the consideration of the accounts, balance sheet and the reports of the Directors and auditors, the election of Directors, the appointment of, and the fixing of the remuneration of the auditors.

36. QUORUM

No business shall be transacted at any general meeting unless quorum of Members is present at the time when the meeting proceeds to business, save as herein otherwise provided. At least 2 Members having not less than twenty-five percent (25%) of the voting power present in person or through proxy shall be the quorum at any general meeting of the Company.

37. EFFECT OF QUORUM NOT BEING PRESENT

If within half an hour from the time appointed for the meeting a quorum is not present, the meeting, if convened upon the requisition of Members, shall be dissolved, in any other case, it shall stand adjourned to the appeal of the following week at the same time and place. The quorum for any such periods that remain as provided for in Article 36 above.

38. CHAIRMAN OF GENERAL

The Chairman, if any, elected under Article 58 shall preside as Chairman at every general meeting of the Company, but if there is no such Chairman or if at any general meeting the Chairman is not present within fifteen minutes after the time appointed for holding the meeting, or is unwilling to act as Chairman, the Members present whether in person or by the proxy shall choose one of their number to be Chairman of the meeting.

39. POWER TO ADJOURN GENERAL MEETING

- 39.1 The Chairman of a general meeting may at any time with the consent of the general meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting to another time or place. In addition the Chairman may at any time without the consent of the meeting adjourn the meeting to another time or indefinitely if it appears to the Chairman that:
 - (i) The number of persons wishing to attend cannot be conveniently accommodated in the place(s) appointed for the meeting; or
 - (ii) The unruly behavior of any person attending the meeting prevents or is likely to prevent the orderly conduct of the business of the meeting; or
 - (iii) An adjournment is otherwise necessary so that business of the meeting may be properly conducted.

No business shall be transacted at any adjourned meeting other than business left unfinished at the meeting from which the adjournment took place.

When a meeting is adjourned for an indefinite period, the date, time and place of the adjourned meeting shall be fixed by the Board. When a meeting is adjourned for 60 days or more, notice of the adjourned meeting shall be given as in the case of the original meeting. When a meeting is adjourned for more than 14 days but less than 60 days (or for 14 days or less if the date of the adjourned meeting is fixed by the Board), notice of the day, time and place of the adjourned meeting shall be given in the same manner as in the case of an original meeting and notice of the business to be transacted at such an adjourned meeting shall not be required. Where a meeting is adjourned for 14 days or less, and the date of the adjourned meeting is fixed by the Chairman of the meeting, it shall not be necessary to give any notice of the adjourned meeting or of the business to be transacted at an adjourned meeting whatever the reason for the adjournment.

40. MODE OF DECIDING QUESTIONS AT MEETINGS

At any general meeting, a resolution put to the vote of the meeting shall, unless a poll is demanded, be decided on a show of hands unless a poll is (before or on the declaration of the result of the show of hands) demanded. 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, or lost, 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 favour of, or against, that

41. POLL

- 41.1 A poll may be demanded only in accordance with the provisions of Section 167 of the Ordinance. If a poll is duly demanded, it shall be taken in accordance with the manner laid down in Section 168 of the Ordinance and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.
- 41.2 A poll demanded on the election of the Chairman or on a question of adjournment shall be taken at once.

42. RIGHT OF DIRECTORS TO ATTEND GENERAL MEETINGS

Subject to Section 162 of the Ordinance every Director of the Company shall have the right to attend any general meeting of the Company and also to take part in the discussions thereat, but he/she shall not be entitled to cast a vote at a general meeting of the Company unless he/she is Member of the Company.

PART VII - VOTES OF MEMBERS

43. VOTES OF MEMBERS

Subject to any rights or restrictions attached to any shares and to the provisions of these Articles, on a show of hands every Member who is present in person shall have one vote and on a poll every Member present in person or by a representative or proxy shall have one vote for each share held by him/her. Provided that, in case of election of Directors, the provisions of Article 53 shall apply.

44. REPRESENTATION OF COMPANIES OR CORPORATIONS AT GENERAL MEETING

Any company or corporation which is a Member of the Company may by resolution of its Board of directors or in such manner as may be permitted or required by its constitution, authorize, in writing, any person or persons to act as its representative at any general meeting of the Company or any class of Members in respect of its entire holding or any part thereof. A person so authorized shall be entitled to exercise the same powers on behalf of the company or corporation he/she represents as that company or corporation could exercise if it were an individual Member of the Company. A representative so appointed shall not be deemed to be a proxy.

45. JOINT HOLDERS



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In the case of joint holders of a share the vote of the senior who tenders a vote, whether in person or by proxy, shall be accepted to the exclusion of the votes of the other joint holders and for this purpose seniority shall be determined by the order in which the names stand in the Register in respect of the shares.

46. THE INSTRUMENT OF PROXY

The instrument appointing a proxy shall be in writing and be signed by the appointer or his/her attorney duly authorized in writing or if the appointer or his/her attorney duly authorized in writing or if the appointer is a body corporate be under its seal or be signed by an officer or any attorney duly authorized. A proxy need not be a Member. A proxy who is appointed for a specified meeting only shall be called a Special Proxy. A special proxy shall be valid only for the meeting to which it relates and it shall not be used for more than one meeting. An instrument appointing a proxy may be in the following form or a form near thereto as may be approved by the Directors:

DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

	t	being a	member of	of DHA
	COMPANY (PRIVATE) LIMITED hereb			
	as my proxy to vote for			
	general meeting of the Company to be	e held o	n the	day
of,	and at any adjournment thereof.	1		
Dated:	Signed: -			

47. INSTRUMENT APPOINTING A PROXY TO BE DEPOSITED AT THE OFFICE OF THE COMPANY

The instrument appointing a proxy and the power of attorney or other authority, if any under which it is signed or a notarized certified copy of that power or authority shall be deposited at the office of the Company not less than 48 hours before the time for holding the meeting or adjourned meeting at which the person named in the instrument proposed to vote and in default the instrument of proxy shall not be treated as valid. Delivery of an instrument appointing a proxy shall not preclude a Member from attending and voting in person at the meeting or poll concerned.

48. REVOCATION OF AUTHORITY

A vote given in accordance with the terms of an instrument appointing a proxy shall be valid notwithstanding the previous death or insanity of the Member or revocation of the proxy or of the authority under which the proxy was executed or the transfer of the survey.

in respect of which the proxy is given unless intimation in writing of the death, insanity, revocation or transfer shall have been received by the Company at least forty eight (48) hours before the commencement of the meeting or adjourned meeting at which the proxy is used. Provided nevertheless that the Chairman of any meeting shall be entitled to require such evidence as he/she may in his/her discretion think fit of the due execution of an instrument of proxy and that the same has not been revoked.

49. EQUALITY OF VOTES

In 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, shall have and exercise a second or casting vote.

PART XIII - DIRECTORS

50. NUMBER OF DIRECTORS

- a) The following shall be the first Directors of the Company:-
- 1. Naeem Azhar Lone
- 2. Muhammad Rafique
- 3. Syed Jamal Ullah Macdi
- b) Save as provided in Section 187 of the Ordinance, no person shall be appointed as a Director unless he/she is a Member of the Company.

51. REMUNERATION OF DIRECTORS

The remuneration of the Directors shall from time to time be determined by the Company in general meeting subject to the provisions of the Ordinance.

52. DIRECTORS MAY CONTRACT WITH COMPANY

No Director or intending Director shall be disqualified by his/her office from entering into any contract, arrangement, transaction or proposal with the Company either acting in a professional capacity as a vendor, purchaser or otherwise, nor shall any contract, arrangement, transaction or proposal entered into by or on behalf of the Company in which any Director shall be so concerned or interested, be liable to account to the Company for any profit realized by any such contract, arrangement, transaction or proposal by reason of such Director holding that office or of the fiduciary relation thereby established provided that the nature of his/her interest has been disclosed by him/her at the time and in the manner specified in Section 214 of the Ordinantal Provided further that any such contract, arrangement, transaction or proposal as the interest shall not be entered into with the

Company by a Director or intending Director without the approval of the Board. In a Board meeting held for the purposes of granting such afore-said approval, the Director who is directly or indirectly interested or concerned in any way shall not take part in the discussion, nor vote in such meeting.

PART IX - APPOINTMENT, ELECTION AND REMOVAL OF DIRECTORS

53. ELECTION OF DIRECTORS

- 53.1 At the first annual general meeting of the Company, all the Directors shall stand retired from office, and directors shall be elected in their place in accordance with Section 178 for a term of three years.
- 53.2 A retiring Director shall be eligible for re-election.
- 53.3 The Directors shall comply with the provisions of Sections 174 to 178 and Sections 180 and 184 relating to the election of Directors and matters ancillary thereto.
- 53.4 Subject to the provisions of the Ordinance, the Company may from time to time increase or decrease the number of Directors.
- Any casual vacancy occurring on the Board of Directors may be filled up by the Directors, but the person so appointed shall be subject to retirement at the same time as if he/she had become a Director on the day on which the Director in whose place he/she is chosen was last elected as Director.
- 53.6 The Company may remove a Director in accordance with the provisions of the Ordinance

54. VACATION OF OFFICE OF DIRECTOR

The office of a Director shall be vacated if:

- (a) He/she becomes ineligible to be appointed as a Director on any or more of the grounds enumerated in clause (a) to (h) of Section 187 of the Ordinance subject always to the proviso to such Section;
- (b) He/she absents himself/herself from three consecutive meetings of the Board or from all meetings of the Board for a continuous period of three months whichever is the longer without leave of absence from the Board and the Board resolve that his/her office be vacated;
- (c) He/she or any firm of which he/she is a partner or any private company of which he/she is a Director;



- (i) without the sanction of the Company in general meeting, accepts or holds any office of profit under the Company other than that of Chief Executive or a legal or technical advisor or a banker; or
- (ii) accepts a loan or guarantee from the Company in contravention of Section 195 of the Ordinance.
- (d) He/she fails to obtain the share qualification, if any necessary for his/her appointment, or ceases to hold share qualification necessary for his/her appointment.

55. ALTERNATE DIRECTORS

Subject to Section 192 of the Ordinance, a Director may with the approval of the Board, appoint any person to be his/her alternate Director during his/her absence, if not less than three months, from Pakistan and such appointment shall have effect and such appointee while he/ she holds office as an alternate director shall be entitled to notice of meetings of the Board and to attend and vote thereat accordingly and generally to exercise all the rights of such absent Director subject to any limitations in the instrument appointing him/her. Any appointment or removal under this Article shall be effected by notice in writing under the hand of the Director making the same.

PART X - PROCEEDINGS OF DIRECTORS

56. MEETING OF DIRECTORS

The Board may meet together for the dispatch of business, adjourn, and otherwise regulate their meetings, as they think fit. Such meetings may be held in such places in or outside Pakistan as the Board may determine. The Board may invite such persons as they may deem fit to attend the meetings of the Board of Directors as observers. Meetings of the Board may be held by teleconference, video conference or other electronic media facilities enabling Directors to participate in meetings without being in the same physical location.

57. POWER OF DIRECTOR TO SUMMON A MEETING; NOTICE OF MEETING

A meeting of the Board can be convened at any time on the requisition of a Director; provided that seven (7) clear days' notice of the meeting shall ordinarily be given to all Directors including those who were/are not for the time being resident in Pakistan. In case of urgent business a meeting of the Directors may be called at shorter notice provided that notice of such meeting is sent to all the Directors by facsimile at the facsimile numbers if any provided by the Directors or by any other expeditious means.

58. CHAIRMAN



The Board may from time to time appoint one or more of their body to be the holder of the office of Chairman and determine the period for which he/she is to hold office. The Chairman so elected shall preside over meetings of the Board.

59. QUORUM

The quorum for a meeting of the Board shall be a minimum of two (2) Directors.

60. EFFECT OF QUORUM

A meeting of the Directors for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under Articles of the Company for the time being vested in or exercisable by the Directors generally.

61. RESOLUTION WITHOUT A MEETING OF THE DIRECTORS

A resolution in writing signed by all Directors for the time being in office shall be valid and effectual as if it had been passed at a meeting of the Board duly called and constituted. For this purpose, it shall be permissible to circulate the text of the proposed resolution duly signed by the Chief Executive and obtain signatures of all the other Directors thereon.

62. DIRECTOR MAY ACT NOTWITHSTANDING ANY VACANCY

The continuing Directors may act notwithstanding any vacancy in their body, but if their number falls below the minimum fixed by or under these Articles the Directors shall not, except for the purpose of filing vacancies on the Board or summoning a general meeting, act so long as the number is below the minimum.

PART XI - POWERS OF DIRECTORS

63. POWERS OF DIRECTORS

63.1 The business of the Company shall be managed by the Directors who may pay all expenses incurred in promoting and registering the Company and may exercise all such powers of the Company as are not by the Ordinance or these Articles required to be exercised by the Company in a general meeting, provided that no regulation made by the Company in general meeting shall invalidate any prior act of the Board which would have been valid if that regulation had not been made.

63.2 The Directors shall exercise all powers enumerated under Section 196 of the Ordinance, including issuance/execution of cheques, promissory notes, drafts, bills of exchange and other instruments whether negotiable or transferable or not, and all receipts for moneys paid to the Company, shall be signed, drawn, accepted, endorsed or otherwise executed, as the case may be, in such manner as the Board shall from time to time determine.

- 63.3 The Board shall cause minutes to be made in books provided for the purpose:
 - (a) of all appointments of officers made by the Board;
 - (b) of the names of the Directors present at each meetings of the Directors and of any committee of the Board; and
 - (c) of all resolutions and proceedings at all meetings of the Company, and of the Directors, and of committees of the Board.

PART XII - CHIEF EXECUTIVE

64. APPOINTMENT OF CHIEF EXECUTIVE

The Company shall have a Chief Executive appointed in accordance with the provisions of Section 198 and 199 of the Ordinance.

65. CHIEF EXECUTIVE DEEMED TO BE A DIRECTOR

The Chief Executive shall if he/she is not already a Director elected under Article 53 be deemed to be one and be entitled to all the rights and privileges and subject to all the liabilities of that office. Subject as aforesaid the terms and conditions of appointment of the Chief Executive shall be determined by the Board.

66. REMOVAL OF CHIEF EXECUTIVE

The Board by resolution by not less than three-fourths of their total number for the time being or the Company by a Special Resolution may remove a Chief Executive before the expiration of his/her term of office.

PART XIII - THE SEAL

67. CUSTODY OF SEAL

- 67.1 The Board shall provide for the safe custody of the Seal and the Seal shall not be affixed to any instrument except by the authority of the Board or a committee authorized by the Board itself.
- 67.2 Every instrument to which the Seal shall be affixed shall be signed autographically in any of the following manners.
 - (i) By two Directors; or
 - (ii) By a person duly authorized by the Board either generally or in relation to specific instruments or instruments of specific descriptions.

67.3 Notwithstanding the provisions of paragraph 67.2 of the Articles the Board may resolve to dispense with autographic signatures of all or any person referred to in that paragraph in relation to specific instruments or instruments of specified descriptions, and in substitution therefore to authorize signatures to be affixed by some method or system of mechanical signature approved by the Board.

PART XIV - DIVIDENDS AND RESERVES

68. RESERVES

The Board may, before recommending any dividend, set aside out of the profits of the Company such sums as they think proper as a reserve or reserves which shall, at the discretion of the Board, be applicable for meeting contingencies or for equalizing dividends or for any other purpose to which the profits of the Company may be properly applied and pending such application may, at the like discretion, be employed in the business of the Company or be invested in such investments, as the Directors may, subject to the provisions of the Ordinance, think fit.

69. DECLARATION OF DIVIDENDS

The Company in general meeting may declare dividends, but no dividends shall exceed the amount recommended by the Board.

70. PAYMENT OF DIVIDENDS

No dividend shall be paid otherwise than out of the profits of the Company.

71. INTERIM DIVIDENDS

The Board may from time to time declare and pay to the Members such interim dividends as appear to the Board to be justified by the profits and position of the Company.

72. TIME FOR PAYMENT OF DIVIDEND

Any dividend declared pursuant to Article 69 shall be paid within the period laid down in Section 251 of the Ordinance.

73. DIVIDEND TO JOINT HOLDERS

Any one of several persons who are registered as the joint holders of any shares may give effectual receipt for any dividend payable in respect of such shares.

74. EFFECT OF TRANSFER

A transfer of shares shall not pass the right to any dividend dividend the registration of the transfer.

75. RETENTION OF DIVIDEND

The Directors may retain the dividend payable upon shares in respect of which any person is under Article 20 entitled to become a Member or which any person under that Article is entitled to transfer until such person shall become a Member in respect thereof or shall duly transfer the same.

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76. UNCLAIMED DIVIDENDS

Subject to the applicable provisions of the Ordinance, all dividends unclaimed after having been declared may be invested or otherwise made use of by the Board for the benefit of the Company until claimed.

77. DIVISION OF DIVIDEND

All dividends of the Company shall be apportioned and paid pro rata among the Members in proportion to the number of shares held by them respectively during any portion or portions of the period in respect of which the dividend is paid.

PART XV - MINUTES AND BOOKS

78. MINUTES TO BE RECORDED

The Company shall cause a fair and accurate summary of all proceedings of general meetings and meetings of its Board and committees along with the name of those participating in such meetings to be entered in properly maintained books.

79. BOOKS OF ACCOUNTS TO BE KEPT

The Board shall cause to be kept proper books of accounts with respect to all sums of money received and expenditures incurred all sales and purchases of goods by the Company and all assets and liabilities of the Company.

80. BOOKS OF ACCOUNTS TO BE KEPT AT OFFICE OF THE COMPANY

The books of accounts shall be kept at the office of the Company or at such other place in Pakistan as the Board may decide and when the Board so decides the Company shall within seven (7) days of the decision, file with the Registrar a notice in writing giving the full address of that other place.

81. ANNUAL ACCOUNTS AND BALANCE SHEET

The Directors shall as required by Section 233 and 236 of the Ordinance cause to be prepared and to be laid before the Company in general meeting such profit and loss

accounts and balance sheets duly audited and reports as referred to in the above referred Sections.

PART XVI - AUDIT

82. APPOINTMENT OF AUDITORS

Auditors shall be appointed and their duties regulated in accordance with Sections 252 to 255 of the Ordinance. The auditors shall be entitled to attend any general meeting of the Company and to receive all notices of and other communications relating to any general meeting which any Member is entitled to receive and be heard there at, on any part of the business of the meeting which concerns him/her as auditor.

PART XVII - NOTICES

83. PROCEDURE FOR GIVING NOTICES

A notice may be given by the Company to any Member either personally or by sending it by post to him/her at his/her registered address or if he/she has no registered address in Pakistan, to the address, if any within or outside Pakistan, supplied by him/her to the Company for the giving of notices to him/her.

84. NOTICE SENT BY POST

Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, preparing and posting a letter containing the notice and, unless the contrary is proved, to have been effected at the time at which the letter would have been delivered in the ordinary course of post.

85. NOTICE TO JOINT HOLDERS

A notice may be given by the Company to the joint holders of a share by giving the notice to the joint holder named first in the Register in respect of the shares.

86. NOTICE TO PERSON ENTITLED BY TRANSMISSION

A notice may be given by the Company to the person entitled to a share in consequence of the death or insolvency of a Member by sending it through the post in a prepaid letter addressed to them by name or by the title of representatives of the deceased or assignees of the insolvent of by any like description at the address if any in Pakistan, supplied for the purpose by the persons claiming to be so entitled or until such an address has been so supplied by giving the notice in any manner in which the same might have been given if the death or insolvency had not occurred.



PART XVIII - SECRECY

87. SECRECY

Every Director, manager, advisor, auditor, member of a committee of the Board, officer, servant, agent, accountant or other person employed in the business of the Company shall, if so required by the Board, before entering upon his/her duties, sign a declaration pledging himself/herself to observe a strict secrecy respecting all transactions of the Company with its customers and the state of accounts with individuals and in matters relating thereto, and shall by such declaration pledge himself/herself not to reveal any of the matters which may come to his/her knowledge in the discharge of his/her duties except when required to do so by the Directors or by any applicable law or by any general meeting or by any court of law and except so for as may be necessary in order to comply with any of the provisions of these Articles.

PART XIX - INDEMNITY

88. INDEMNITY

Every officer, Director or agent for the time being of the Company may be indemnified out of the assets of the Company against any liability incurred by him/her in defending any proceedings, whether civil or criminal arising out of his/her dealings in relation to the affairs of the Company whether the outcome of any such proceedings is in her/his favour or otherwise except those brought by the Company against him/her, or in connection with any application under Section 488 in which relief is granted to him/her by the Court.

PART XX - WINDING UP

89. DISTRIBUTION OF ASSETS

- 89.1 If the Company is wound up, the liquidator may, with the sanction of a Special Resolution of the Company and any other sanction required by the Ordinance, divide amongst the Members, in specie or in kind, the whole or any part of the assets of the Company, whether they consist of property of the same kind or not.
- 89.2 For the purpose aforesaid, the liquidator may set such value as he/she deems fair upon any property to be divided as aforesaid and may determine how such division shall be carried out as between the Members or different classes of Members.
- 89.3 The liquidator may, with the like sanction, vest the whole or any part of such assets in trustees upon such trusts for the benefit of the contributories as the liquidator, with the like sanction, thinks fit, but so that no Member shall be compelled to accept any shares or other securities whereon there is any liance.

PART XXI - DISPUTE RESOLUTION

90. DISPUTE RESOLUTION

90.1 In the event that a dispute, claim or controversy arises between the Company, its management or its shareholders, or between the shareholders inter-se, or the directors inter-se, all steps shall be taken to settle the dispute and resolve the issue through mediation by an accredited mediator before taking recourse to formal dispute resolution such as arbitration or litigation. Notwithstanding the above, mediation shall not be a condition precedent for initiating proceedings before the court having jurisdiction to determine the dispute, claim or controversy.





We the several persons, whose names and addresses are subscribed, are desirous of being formed into a company, in pursuance of these Articles of Association and we respectively agree to take the number of shares in the capital of the Company set opposite to our names:

٦	Name and	Father's/Hu	CNIC/	Nationalit	Occupation	Address	Number	Signature
	Name and Surname	sband's	Passport	y with any	Occupation	Address	of Shares	Signature
	(Present &	Name in	1 •	former			taken by	
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	MUHAM	MUHAMM	34101-	PAKISTA	BUSINESS	HOUSE NO.	ONE (1)	
	MAD	AD YASIN	6241501-	NI	EXECUTIV	SUH-443,		/ /
Ì	RAFIQUE	KHAN	5		Е	STREET 5,		1.
						ASKARI 5,		\mathcal{A}
Ì						MALIR		. /
						CANTT,		
1				<u> </u>		KARACHI		
	SYED	SYED	42101-	PAKISTA	BUSINESS	PLOT 6/B-3, D	ONE (1)	
	JAMAL	SANA.	1936245-	NI	EXECUTIV	STREET,		
	ULLAH	ULLAH	5		ľΕ	PHASE 5,		
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MUHAN MAD RAFIQU	KHAN	34101- 6241501- 5	PAKISTA NI	BUSINESS EXECUTIV E	HOUSE NO. SUH-443, STREET 5, ASKARI 5, MALIR CANTT, KARACHI		ch:
						ONE MILLIO N (1,000,00	

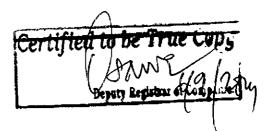
Dated 24 February 2017

Witness to the above signatures:

Name: NIFT (Pvt.) Limited

Address: 5th Floor, AWT Plaza, I.I. Chundrigar Road

Karachi- 74200, Pakistan





THE COMPANIES ACT, 2017 THE COMPANIES REGULATIONS, 2024

[Section 130(1), 130(2), 424(5) read with Regulations 62 & 30]

ANNUAL RETURN OF A COMPANY

PART-I

(To be filled by All Companies)

(Plan	ue complete is	n bold capital letters) -			
1.1	CUIN (Re	gistration Number)	0 1 0 6 3 0 0		
1.2	Name of th	ne Company	DHA Energy Supply Company (Pvt) Ltd		
1.3	Fee Payin	ent Details	1.3.1 Challan No 24277426 1.3.2 An	nount [675]	
	· 1.4 Part	iculars of—	T	lease tick the	
	· Part-II	Annual Return of	a company other than inactive company		
	Part-III		Ingetive Company	-	
				-	
			PART-II		
		(To	be filled by an Active Company)		
2.1	Annual C	ieneral Meeting hel	d on 0 1 0 7 2	, 0 2 4 1 1 4	
2.2		nade up to (applical cheld/concluded duri			
	r a	-			
2.3	Register	red office address	2/B, East Street, Phase-I, DHA Karachi. 755 Karachi South Sindh	00 KARACIII	
2.4	Email Address dhoksrachicorporate@email.com				
2.5	Office T	el. No.	021-111589589		
2,6	authoriz		natsApp enabled number) of 03332212991 Executive/ Director/ Company Officer)	8 	
				Page 1 of 6	



Certified to be True Copy

Deputy Regional of Companies

Deputy Regional of Companies

27	Authorized Share Capital (If applicable	•}		
	Classes and kinds of Shares	No. of Shares	Amount	Face Value
	Ordinary Shares	10,000,000	100,000,000.00	10
		1		1

2.8	Paid up Share Capital (If applical	ole)		
	Classes and kinds of Shares	No. of Shares	Amount	Face Value
	Ordinary Shares	1,000,000	10,000,000.00	10
				1

2.9 Particulars of Officer(s) including Share Registrar

S. No.	Name	Designation	CNIC No.	Address
1	Sohail Imtiaz	Chief Executive	35200-1423874-3	House No. 24, Street No. 10, Mohalla Ganj Mughalpura, Lahore
2	Muhammad Zubair Hakiim Khan	Company Secretary	42101-8596915-9	Zohra Centre, Flat No. A-13, North Nazimabad Block-G, Karachi
3	NA	Chief Financial Officer	NA	NA
4	Hunsa Fahad	Legal Advisor	42201-2916505-2	Fint No. 302, Gallad Apartment, KDA Scheme 1, Karsaz Karachi East
5	Mes Rahman Sarfaraz Rahun Iqbal Rafiq Chartered Accountant	· Auditor	NA .	Plot No. 180, Block-A. S.M C.H.S. Karachi 74400 Pakistan
6	NA	Any Other Officer	NA	- NA
7	NA	Share Registrar (if applicable)	NA	NÁ

2.10 List of Directors as on the date up to which this Form is made.

S#	Name	Residential Address		CNIC No. for Pakistanis, or NICOP No. for Overseas Pakistanis, or Passport No. for	Date of appointmen t or election	Name of member or creditor nominating or appointing the director
	Sahad Imtaz	House No. 24, Street No. 10,	Pakistani	foreigners (\$200-[423874-]	15-04-2024	ine director

Page 2 of 6



(Ö.



	·	Mohalla Ganj Mughalpura, Lahore				
. 2	Asım Alı	House No. 5UH-82, Street No. 6 Sec J, Askari 5 Malir Cantt. Karachi	Pakistani	35202-615(822-)	20-82-2023	
3	: Mehmood Ali Babri	Gulberg Green, House No. 302, Street No. 17 Block A Islamabad	Pakistani	37405-5557)(1-9	15-04-2024	***************************************
4	Fajsal Ingan Hussain Malik	318 1, Kh e Shujaat Phase 8b DHA, Karachi	Pakidani	42201-0527582-5	. 14-03-5054 	
, 5	Haseeb Hafeezuddeen	Central Lane Phase II, DHA Karachi South	Pakreinn	42301 (1999692-9	28-\$1/2022	

2.11 List of members/shareholders & debenture holders on the date up to which this Form is made.

// Folio /	ACRES (ACRES)	Address	Nationality	No. of shares / debentures held (Applicable in case of companies having share capital)	Percentage of shareholding of member having 25% or more shareholding (Applicable in case of companies having share capital)	CNIC No. for Pakistanis, or NICOP No. for Overseas Pakistanis, or Passport No. for foreigners, or CUIN No. for Pakistani company, or Registration No. for foreign company
	DHA Energy &	2B. Fast Street, Phone S, DHA, Karachi	Pakistan	100 ass		Ditte 191
2	Asim Ali	House No. SUH- 82, Street No. 6 Sec J, Askan 5 Mafir Cantt. Karachi	Pakasam			35202-6151822 3
Debenture	holders		* in **			
	<u> </u>		- Library Control of the Control of			

Page 3 of 6



- * In case the member or debenture holder is holding shares or debentures on behalf of other personiss, the name of such other person(s) shall be mentioned in purentheses along with the name of the member or debenture holder.
- * In case the member or debenture holder is holding interest or exercising voting or control rights in the company on behalf of other person(s), the name of such other person(s) shall be mentioned in parentheses along with the name of the member or debenture holder.

2.12 Transfer of shares/ dehentures since last Form-A was made (Applicable for companies having share capital)

S# ' Name of Transferor	Name of Transferee ¹ Number of shares transferred	Date of registration of transfer
Shareholders		
Debenture holders	1	

PART-III

(To	be	filled	by	an	Inactive	Compan	[۲
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3.1	Correspondence					•	* ** **		-
	Address	1				-	*****	ordination to the visit source of the state of the coupy of the second o	
3.2	Contact Details		•						

3.3 List of Directors and members as on the date this Form is made.

	List of Directors and inclined a system of the Child For the 13 name.													
S#	Name	Residential	Nationality	No. of	CNIC # for	Date of	Name of member							
ļ		Address	~	shares	Pakistanis, or	becoming	or creditor							
į				held (if	NICOP # for	member di	nominating/							
				any)	Overseas	rector	appointing the							
	•	` `			Pakistanis, or		director							
	*		٠ ;	i	Passport # for									
	•			,	foreigners	:								
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, 2	!	مريد دوره دريد دوره	<u> </u>											
3	, , , , , , , , , , , , , , , , , , ,													

Page 4 of 6



A.4 Confirmation
about inactive
status of
Company

est.

- It is hereby stated and confirmed that the Company has
- not carried out any operation since gram of status as an mactive : viirduio: -
- (ii) no substantal assess or Accounting transactions.

Declination:

- I do hereby salemnly and sincerely declare that the information provided in the form and the enclosures is: ; (*) ; (*)
- true and correct to the best of my knowledge, in consonance with the record as maintained by the company and nothing has been concealed; and **:**
- hereby reported after complying with and fulfilling all requirements under the directives, circulars regulations. rules. notifications whichever is applicable. relevant provisions of law. E
- Name of Authorized Officer with plant telebratelizaappointed <u>خ</u> ج
- 3.7 Signatures

- Barul selden
- 3.8 Registration No of Authorized Intermediary, if applicable
- Months American 3

INSTRUCTIONS FOR FILLING THIS FORM

- This Form shall be made up to the date of hist AGM of the Company or the last date of the calendar year where no AGM is held/concluded during the year.
- If shares are of different classes the columns should be subdivided, so that the nature of each class held, is shown separately against S No. 2.7 and 2.8 ***** *
- If space provided is insufficient, the equired intormation should be listed in a separate slicer attached to this return which should also be signed.
- This form is to be filled within 30 days of the date indicated in Sr. No. 11 or 2.2 as the case may be). If the form is filted after 30 days, additional fee as per section 408 shall be as the form of filter after 30 days. arplicable, ***



ربر س

- 5. An mactive company or a company which held its AGM but the same was not concluded shall file Form-A within a period of 30 days from the close of calendar year.
- 6 This form is not applicable on single member companies & private companies having paidup capital not exceeding 3.0 million in case there is no change of particulars since last annual return filed with the registrar.
- 7. A company, other than a single member company or a private company having paid up capital of not more than three million rupees, shall inform the registrar on Form-24 that there is no change of particulars in the last annual return filed with the registrar.
- 8. Original challan or other evidence of payment of fee specified in Seventh Schedule of the Act will be submitted with this form (not applicable in case of online filing)



Page 6 of 6

THE COMPANIES ACT, 2017 THE COMPANIES REGULATIONS, 2024

[Section 14(1)(c),167 & 197 and Regulations 50,54 & 30]

PARTICULARS OF DIRECTORS AND OFFICERS, INCLUDING THE CHEIF EXECUTIVE, SECRETARY, CHIEF FINANCIAL OFFICER, AUDITORS, LEGAL ADVISER AND INCASE OF SINGLE MEMBER COMPANY, NOMINEE OF SOLE MEMBER OR OF ANY CHANGE THEREIN

PARTI

	1.1. CUIN	i (Registrati	on Number)		0	1 0	6 3 0	0	
Ò	1.2. Nam	e of the Cor	прапу	DH	IA ENERGY	SUPPLY (COMPANY	(PRIVATE)	LIMITED
				L					
	1.3 Fee Pa	ayment Deta	ils 1.3.1 C	hallan No		1.3	3.2 Amount	(Rs.)	THE RESERVE OF THE PERSON OF T
	2. Partic	ulars*			PART-II		Company P	Atraion Office	The section of Parising
Ģ	Present Name in Full	NIC No for Pakistani or NICOP No for overseas Pakistanis or Passport No in case of a foreigner		Designatio n	Nationality	Bussiness Occupatio n n****(if any)	Date of present appointme nt or change	Mode of appointme nt / change /any other Remarks**	Nature of directorshi p (nominee other)
	(a)	(b)	(c)	(d)	(8)	(1)	(g)	(h)	(i)
	2.1 New	appointme	nt/election	·				 	
	Usman Rafique	42501880 83027	House No. 21/2, Street No 45, Mohalla Sunnat Nagar	Director	Pakistan	Service Cer		Appointed be True	Nominated
i				<u>, </u>			1/1/0	ry Registrar of Co	mp23:66

	Lehore, Lahore, Lahore, Punjab, Pakistan						
2.2 Ceas MEHMOO D ALI BABRI	e/Retireme 2-B, East Street Phase I DHA Karachi, Saddar Town, Karachi South, Sindh, Pakistan	nt/Resigna	tion/Remov Pakistan	Service	15-07- 2024	Resigned	

PART-III

3. Particulars of nominee in case of single member company for the purpose of section 14 or any change

	Present Name in Full	NIC No for Pakistani or NICOP No for overseas Pakistanis or Passport No in case of a foreigner	Netionality	Usual residential address Telephone number & Email address	Date of present appointmen t or change	Relationshi p of Nominee with single member	
	(a)	JE 10 40/55	> (c)	(d)	(e)	(f)	
4.1.	Declaration	Section of the sectio	PAR	T-IV			

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

- i. true and correct to the best of my knowledge, in consonance with the record as maintained by the company and nothing has been concealed; and
- ii. hereby reported after complying with and fulfilling all requirements under the relevant

provisions of law, rules, regulations, directives, circulars and notifications whichever is applicable.

4.2.	Name of Authorized Officer with
	designation/Authorized Intermediary (if
	appointed)

Muhammad Zubair	Secretary
Hakilm Khan	

4.3. Signatures

This is an electronically generated document and doesnt require a physical signature

4.4. Registration No of Authorized Intermediary, if applicable

4.5. Date

ט	ay	\$YIC	erite)		year				
G	9	0	8	2	0	2			

Enclosure

- 1. Consent of each Director/Chief Executive upon their appointment/-reappointment/election on the pescribed appendix
- 2. Copy of nomination letter from the appointing authority in case the person is nominated under any of the proviions of the Act.
- 3. Copy of NOC/approval from concerned department (Ministries or Regulatory Authorities or SECP) is required for companies with licensing activities etc.
- 4. Consent of auditor, in case of appointment re-appointment of auditor
- 5. Copy of resignation letter (in case of resignation of a director or chief executive), duly signed by resigning director or chief executive, verified through an affidavit on stamp paper duly signed by the person who has signed this Form and attested by an oath commissioner and witnessed, be attached.
- 6. If the person appointed is a foreigner, please provide 9 sets of Bio-Data & valid Passport for onward submission to Ministry of Interior (MOI) for clearance along with undertaking in original
- 7. Sufficient evidence in case of removal/ death/disqualification of Director/ Chief Executive may be attached.
 - 8. Any other documents, as required by the registrar.

 Original challan or other evidence of payment of fee specified in Seventh Schedule of the Act (not applicable in case of online filing)

THE COMPANIES ACT, 2017
THE COMPANIES REGULATIONS, 2024

[Section 167]

(Applicable in case of appointment or election of director(s) or Chief Executive)

CONSENT TO ACT AS DIRECTOR / CHIEF EXECUTIVE

 I, the undersigned, have consented to act as Director(s)/ Chief Executive of the above-named company pursuant to section 167 of the Companies Act, 2017, and certify that I am not ineligible to become Director(s)/ Chief Executive under section 153 or 177 of the Companies Act, 2017.

Name in full			Occupation	NIC No or passport No in case of Foreign National	Signature		
Usman Rafique	Nominee Director	House No. 21/2, Street No 45, Mohalla Sunnat Nagar Lahore, Lahore, Lahore, Punjab, Pakistan	Service	42501880830 27	This is an electronically generated document and doesnt require a physical signature		

Certified to be True Copy

Deputy Regular of da land



THE COMPANIES ACT, 2017 THE COMPANIES REGULATIONS, 2024 [Section 14(1)(c), 167 & 197 and Regulations 50, 54 & 30]

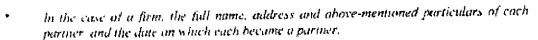
4., ١.

ADVISER AND IN CASE OF SINGLE MEMBER COMPANY, NOMINEE OF SOLE
MEMBER OR OF ANY CHANGE THEREIN EXECUTIVE, SECRETARY, CHIEF FINANCIAL OFFICER, AUDITORS, LEGAL PARTICULARS OF DIRECTORS AND OFFICERS, INCLUDING THE CHIEF MEMBER OR OF ANY CHANGE THEREIN

PART-I

	***************************************		#]	2.2 Ceas		Acquites	Ratio	k bal	Sarkers	Z-I New	(x)	To a contract of the second of	Name in	ţu		 	1.7	i Plante
So of the August of the State o		Ather change in marie		2 Ceasing of Office Retirement Resignation Removal Death Disqualification:						2.1 New appointment/election:	8	No. for overseas I tak istories, or Passport No. in case of a foreigner	NIC No. for Pakistani, or NICOP	Particulars*:		Fee Payment Details	Name of the Company	Please craplete in buld capital letters) 1.1 CUIN (Registration Number)
A Constitute of the Constitute				nr Resigna			Pakestes	Karacha		Fig. Vo. 181	(3)	address	Coust true	•		در درا س	Ynı	d leners) Number)
Securities and Es				tion/Remo		1				Aud June 1	(a)	न्द्र दश्लक ्क चनका । इस ।	Besign ##.wn		120	Challan No	DHA Encryy	1
		The last to		*sl/Death						N.A.	(5)		Nationa lity**		PART-II		псгуу Su	0
		() shows:	***	Disqualifi	,					AN	(3)	n⊷+ (if	Business Occupatio			24/05260 1.3.2	pply Com	0
Re	1		*** *** *** *** *** *** *** *** *** **		1		**		*	15.00	(9)	appointme ut or change	Date of				Supply Company (Pvt) Lid	3 0
ed to be			* * * * ***		•			***************************************	Approximately	~~! ~ ! !	(4)	any other Remarks***	Niede of			Amount 3	Lid .	
Re True					1						S	toothinec	Almue of		******	125		

*2



- ** In case the nationality is not the notionality of origin, provide the nationality of origin as well.
- *** Also provide particulars of other directorships or offices held, if ony.
- **** In case of listed company also mention whether the person was appointed as "independent, or executive or non-executive or female director quota
- ***** In case of a director nominated by a member or creditor the name of such nominating or appointing bady shall also be mentioned in column (i), and a copy of resolution from the nominating or appointing bady be attached.

PART-III

3. Particulars of nominee in case of single member company for the purpose of section 14 or any change therein:

Name in Full	or NICOP No. Ios overseus Pakistami, or Passport No. in case of	Nationality	Lisual residential address. Telephone number & Finant address.	Date of appointment or change	Reinslonship of Nommer with single member
(n)	(b)	(c)	(d)	(1)	

PART-IV

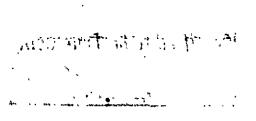
4.1 Declaration:

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

- true and correct to the best of my knowledge, in consumance with the record as maintained by the Company and nothing has been concealed; and
- (ii) hereby reported after complying with and fulfilling all requirements under the relevant provisions of law, rules, regulations, directives, circulars and notifications whichever is applicable.

4.2	Name of Authorized Officer of designation/ Authorized Intermedian	with Heses & H.	geeneddeen j	Diesetia	
4,3	Signatures	14a	rubied de	<u>"</u>	·
4.4	Registration No of Authorized Inter	mediary, if applic	cable		! !
4.5	Date	Day 0 1	Month 7	Year 2 0 2	4

Page 2 of 3







Enclosures:

- 1. Consent of each Director / Chief Executive upon their appointment reappointment/election on the prescribed appendix
- Copy of nomination letter from the appointing authority in case the person is nominated under any of the provisions of the Act.
- 3 Copy of NOC/approval from concerned department (Ministries or Regulatory Authorities or SECP) is required for companies with licensing activities etc.
- 4. Consent of auditor, in case of appointment/re-appointment of auditor
- 5. Copy of resignation letter (in case of resignation of a director or chief executive), duly signed by resigning director or chief executive, verified through an affidavit on stamp paper duly signed by the person who has signed this form and attested by an oath commissioner and witnessed, be attached.
- If the person appointed is a foreigner, please provide 9 sets of Bio-Data & valid Passport for onward submission to Ministry of Interior (MOI) for clearance along with undertaking in original.
- Sufficient evidence in case of removal/ death / disqualification of Director Chief Executive may be attached.
- 8. Any other documents, as required by the registrar.
- Original challan or other evidence of payment of fee specified in Seventh Schedule of the Act (not applicable in case of online filing)



Page 3 of 3

ANNEX - A-4

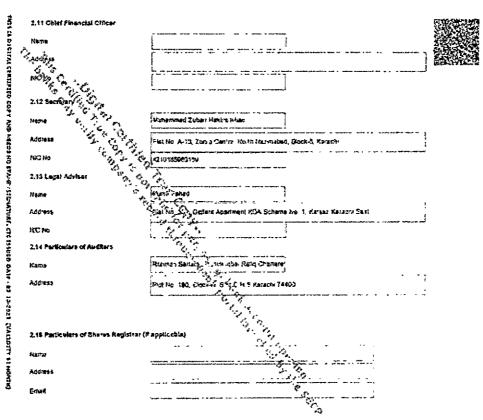
LAST ANNUAL RETURN UNDER SECTION 130 OF THE COMPANIES ACT

DESCO's last annual return is appended herein below.

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The Corpanies Act, 2017
The Corpanies (Cureral Provisions and Popisor Residentions, 2018
(See on 1361) and rejuliently
Anthar Return of Company Haves 2018 Captae 0103331 | 1.11 Chefon No. | 3-7022-1231943 | 13.2 Anoune | 54.0 0 ANT A PART A PAR F S CHAN M AGE Suchen A 2 1 Appares Olica Advord 2 2 Deat Address 25 Principle line at burntelle 03732712924 2.6 Strike (14 of Authorise), ethological (Child Exemples) Descript Campany Sectionry) One) Financial (Chica) 2 7 Authorized Start Cestal Cineses and kinds of Shares 40.000,090.00 OTEMET SCAPES 2.8 Particulars of the noisb a trubaliflety e-sepacy, if any 2.18 Chief Executive Appropriate No. 1602 Black C Creat Visites Prints Vist DNA Sectors

Para III



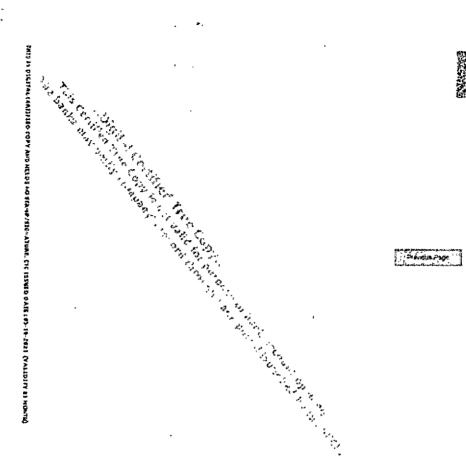
Section-0

2.15 List of Directors on the date Annual return is made

	Name of Director	Pendental Address	Neponasty	control and	Oats of appointment relection	Name of MemberCheditors non-rating/accompag
344	Hefeer (Xish Khen	Pictuing Excusty, Novembers	Pakestan	1720-95094174	18.00/2021	-
Ĭ	Raw Asses Atominis	Appartment (to 160); Block C Crock Vigital Ph VIII OHA Karacta	Pakstan	1120175432161	16/04/2021	
,[3	Management Table Autodam	O 1 Sharphia Apartment Dvd Lung Karath	Palustan	AT 10135307903	.003001	
	Aurangseb Anjum	Title Cost Street Press. Des Agrecta	Pak stan	2010202751525	14/06/2071	
1	Khurave Noor	S-Alli, Silv Central Street, Phisse-II, DHA Karache	Peristan	,e210115836567 ¹	16092021	

*	620#	lane"	\$100reas	Print Contractor	Assert to the	Percenting	or 10 September 2 to the contract of the contr
₩.i	∌∏.		arrangement of the second seco			************	
	1 %	Paleston Datanta Officers H	CHANG 40,20, East Great Chia Phase-1 Karcon	Passen	39446	1	Em constitution
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Item No. 4

The Authorized, Issued, Subscribed and Paid-up Share Capital of the Applicant.



DHA Energy Supply Company (Pvt.) Ltd 2/B East Street, Phase-t. OHA, Karachi-75500 Pht (+92-21) 111-589-589 Fax (+92-21) 35886406

SHARE CAPITAL

DHA Energy Supply Company (Pvt) Ltd has the following Authorized & Paid-up share capital;

		Authorized C	apital	Issued, Subscribed & Paid-Up Capit		
Sr	Number of Shares	Rs per Share	Total (PKR)	Number of Shares	Rs per Share	Total (PKR)
1	10,000,000	10/-	100,000,000	1,000,000	10/-	10,000,000

Bambudden. SEEB HAFEEZUDDEEN DIRECTOR



DHA Energy Supply Company (Pvt.) Ltd

Ph: (+92-21) 111-589-589 Fax (+92-77; 35886406

LIST OF SHAREHOLDERS

DHA Energy Supply Company (Pvt) Ltd has the following shareholding pattern;

Si	Name of Shareholder	Authorized Representative	Number of Shares Held	Percentage of Holding
1.	DHA Energy & Services	Brig Sohail Imtiaz	999,999	99.99
2.	Brig Asim Ali (Reid)	-	1	0.01

HASEEB_HAFEEZUDDEEN DIRECTOR

Washed deen





DHA Energy & Services (Pvt) Ltd 2/B East Street. Phaso-4, DHA, Karachi-75500

Ph: (+97-21) 111-589-589 Fax (+97-21) 35886406

SHARE CAPITAL

DHA Energy & Services (Pvt) Ltd has the following Authorized & Paid-up share capital;

		Authorized C	npital	Issued, Subscribed & Paid-Up Capital			
Sr	Number of Shares	Rs per Share	Total (PKR)	Number of Shares	Rs per Share	Total (PKR)	
1	10,000,000	10/-	100,000,000	4,000,000	10/-	40,000,000	

HASEEB UAFEEZUDDEEN DIRECTOR





DHA Energy & Services (Pvt) Ltd

LIST OF SHAREHOLDIAGS

DHA linergy & Services (Pvt) I til has the following shareholding pattern,

į.	Šr	Name of Shareholder	Authorized	Number of	Percentage of
1		1	Representative	Shares Held	Holding
•	*.	DHA Karacki	Rag Schail Instal	ting trees	99,99
1	*	Brig As <u>ım Ali (Reidi</u>	•	e Selakah dan peruna di	0.01

Harebudden

ANNEX - B

LUCKY CEMENT'S COMMITMENT TO SELL POWER

Lucky Cement's letter dated 10 September 2024 is appended herein below.



Ref # LCL/KE/PG/240910

Date: 10th September 2024

Brig. Sohail Imtiaz Chief Executive Officer DHA Energy Supply Company (Pvt) Ltd DHA City, M-9 Motorway Karachi.

Dear Sir,

SUBJECT:

BI-LATERAL ARRANGEMENT FOR POWER SUPPLY - LUCKY CEMENT LIMITED AND DHA

ENERGY SUPPLY COMPANY (Pvt) Ltd ("DESCO")

With reference to your letter dated [August 27, 2024], Lucky Cement Limited ("LCL") is hereby informing you of its consent to enter into a Power Acquisition Contract with DHA Energy Supply Company (Private) Limited ("DESCO") for supply of power to DHA City of up to 6.0MW, subject to all regulatory approvals.

Best regards,

Syed Hassan Mazhar

General Manager-Power Generation

Lucky Cement Limited-KP

C.C: Executive Director – Lucky Cement Limited

Mr. Faisal Jehangir, Advisor ADHA, DHA City Karachi, Karachi



IV.

FINANCIAL AND TECHNICAL CAPABILITIES

ANNEX - C-1

CASH BALANCES HELD IN RESERVE ALONG WITH THE BANK CERTIFICATES

Duly verified bank statement of DESCO, which shows the cash balance held by the company, is provided herein below.



Item No. 6

Evidence of Cash Balances Held In Reserve By The Applicant, Along With Bank Certificates;

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01 \$62-23	PROFIT PAYVELL		2007/82861-252.0 0431	51 AUG 23		4,41491	250,277 #3
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	BALANCE AT PER 1002-EAC):						261,304.38

Tage 2 of 2



SILKBANK

CUSTOMERNAME

Datte Sep 4 2024

TO: DHA ENERGY SUPPLY CO PVT LTD

2 B EAST STREET PHASE I DHA KHI

Subjecti:

Accounti Balance Confirmation

Dear Valued Custiomer

Thank you flor being a Silkbank Customerhelterence your requestive hereby certify tihalt your following accounts is being maintained witth Silkbank

> Account Title Custiomer Name Account Number Branch Name: Account Type

DHA ENERGY SUPPLY CO PVT LTD DHA ENERGY SUPPLY CO PV

2007782977 26tth 5tt DHA-Phase V SUPER PROFIT (RES)

Currency:

The balance in your accounts as on Value Datieur 27 2023 is presented hereunder

Accounti Balance

15,505,303,48(Fifteen Million Five Hundred Five Thousand Three

Hundred Three And 48 / 100 only)

We thruly value your relationship and look fromward to serve you even better

Yes We Cars

Silkbank Umitted

- 1. This is a Systiem generatied letter and does not require any signations or stiemp
- 2. This letter is issued on your specific requests and does not imply any obligation, commitments or guarantee on the parts the Bonk or any of its employed.

Silkbank Limited SILKDATK LUTTIEU
ZEIS SURS Branch:
Pat No. 23-C, Street-37,
Taybeed Commercial Area, Phase-V,
OHA, Karachi-Palistan
PABE: (021) 35871540 Yebsila: www.skibank.com.pk
Faz: (021) 35871540 Yebsila: www.skibank.com.pk

"Say No To Compten"





SILKBANK>

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11 D€C 22	THE DOOR		2007182971-2022 - 1130	50 MOV 22	23,540.81		14,483,526.57
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1 KAR 23	Propit Paylien T		2007762977-2623 6228	28 FEB 23		175,639.30	14,544,174.54
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11 APR 23	Phofit Pathen T		20077#2977/2023 9331	建 804 样。		194,646.71	18,134,445.54
11 APM 23	Tax Dobt		2007742977-2023 9331	31 MAR 23	25,497.64		15,104,944.50
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DETAILS OF ANY CHARGES OR ENCUMBRANCES

As of the date of this DL Petition, there are no charges or encumbrances on the assets of DESCO, as evidenced in its Search Report appended herein below.



Item No. 7

Details of Charges Or Encumbrances Attached To The Applicant's Assets, If Any



TOTAL CREDIT INFORMATION (PVT) LIMITED PROFESSIONAL CORPORATE CONSULTANTS

SEARCH REPORT

From the Charant & Recordy at Securities a Exchange Commission of Paritant

NAME OF COMPANY	DHA ENERGY & SERVICES (PVT) LIMITED.						
RECISTERED OFFICE	Jn. East Street, Phai	DB. SAST STREET, PHASE I, DHA, RABACHI					
NATURE OF BUNINESS	MOWER GENERATION -	ABBITA - KOTAKBRAD REW					
DECORPORATION DATE	31-01-2017	RECISTRATION NUMBER		0104363			
LAST FORM MADE OFTO	1 2-1 1-5052	DATE OF LATEST FORWARD		21-03-2023			
DETAILS OF CAPITAL	TYPE OF SHARES	NO. OF SHARES		PARVALI	n AMOUNT		
AUTHORIZED CAPITAL	ORTHNARY	10,000,000		30	100,600,000		
PARS UP (IAPI) AL	DADINAKA	4 (9/0,149)		10	40,000,000		
CHIEF EXECUTIVE	COMPANY SECRETARY	AVDITORS .		LIKE AL ADVISER'			
RAYASIM MUSTAFA	MOHAMMAD ZUBAİR	RAHMAN SARFARAZ RAHM IQHAL RAFIQ		HUMA FARAD			
DIRECTORS ·	CNIC NOS	APPOINTED	'AODRESE .				
Fakal Imran Husaun Mahk	42201-0527583-3	18-04-0023	31671, Khayaban-p-binyasi Phase-VIII-is, Dii Karachi				
Hiscob Hufeezudaiu	+2301-0699493-#	38-1 1/2022	10-11 2 rd Course Laws, Photo-II Offia, Karachi				
Rai Asim Muzzafa	J1301-7541J18-I	1602992031	Approxima No. 1601 Blocket; Creck Vide Peace-Vill DNA Korocks.				
Haroczuthab Khan	17201-4503417-9	10/04/2021	House has 125, or read Consey. A Healthy Secret, Bearders.				
Auranezob Areson	12102-0475157-2	16/09/2021	3/3 Eng Street Phone-1 (141 A. Karnobi.				

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- discustry wave successary of extremodity charges (Will clearge)
- so wise manufact of charges (Fill charge)

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Item No. 8

Latest Audited Financial Statements of The Applicant

AUDITED FINANCIAL STATEMENTS OF DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

> FOR THE YEAR ENDED JUNE 30, 2023



Rahman Sarfaraz Rabim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Phot Ho, 180, Block-A, B.M.C.H.S., Karacth-ZAROD, PAKISTAN. No. (1021) 345-893-67 E-Mail: Indiagnost-com Witchelle; www.esst.com Other Offices at Labora. Exemplished / Jeburratheri

-:2:-

Responsibilities of Management and Board of Directors for the Financial Statements (continued)

In preparing the financial statements, interagrament is responsible for asserting the Company's ability to continue as a going concern, disclusing, as applicable, matters related to going concern and using the going concern besis of accounting unless transagrament wither intends to liquidate the Company or to cesse operations, or has no realistic alternative but to do so.

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

Auditor's Responsibilities for the Audit of the Financial Statements

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

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

- Identify and assets the risks of material misstatement of the financial statements, whether the to fined or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design sudit precedents
 that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the
 effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit ovidence obtained, whether a material uncertainty exists related to events or conditions that may east significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to confinue as a going concern.
- Evaluate the overall presentation, attracture and compett of the financial statements, including the
 disclosures, and whether the financial statements represent the underlying transactions and events in
 a memory that achieves fair presentation.

We communicate with the Board of Directors regarding, among other matters, the planned scope and timing of the modit and significant audit fludings, including any significant deficiencies in internal control that we identify during our studie.

Cont'd... P/3

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Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Plot No. 180, Block-A, S.M.C.H.S, Kurachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Meil: info@ssit.com Wabsite: www.rscir.com Other Offices at Lathore - Ruyatoindi / Islamabad

INDEPENDENT AUDITORS' REPORT

To the members of DHA Energy Supply Company (Private) Limited

REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS

Opinion

We have audited the annexed financial statements of M/s. DHA Energy Supply Company (Private) Limited ('the Company'), which comprise the statement of financial position as at June 30, 2023, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information ('the financial statements'), and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of eash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and, respectively, give a true and fair view of the state of the Company's affairs as at June 30, 2023 and of the profit, total comprehensive income, the changes in equity and its cash flows for the year then ended.

Basis for Opinion

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

Emphasis of matter

We draw attention to note 1.2 to the financial statements, which describes uncertainty about the grant of distribution license to the Company. Our opinion is not modified in respect of this matter.

Responsibilities of Management and Board of Directors for the Financial Statements

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

Cont'd ... P/2

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Page - 2



Robinso Sarfarec Robini ighal Rafiq

CHARTGED ACCOUNTANTS

PEIN 100 TOOKA BACHE Kuroch 74400, PAKISTANA The Kin 1921 I ME40346-T E-1241 I MEGTERRORE MEDISE WINNERS COM Other Offices of Labora - Remobles to commenced

4: 3° 4

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

Besed on our midit, we further report that in our opinion:

- proper books of account have been kept by the Company as required by the Companies Act, 2) 2017 (XIX of 2017).
- b) the streement of Ensocial position, the nationent of profes or loss, the streement of comprehensive income, the statement of changes in explit, and the statement of cash flows together with the notes thereon have been drawn up in conformity with the Consensies Act, 2017 (XIX of 2017) and are in agreement with the books of account and return;
- invamments useds, expenditure incurred and generates, entitled during the year were for the c) purpose of the Company's business; and
- no Zahat was deductable at source under the Zahat end Lish: Onlineary, 1950 (XVIII of 1980).

The engagement partner on the such resolutes in this independent auditor's report is Mr. Mahammad Wastern.

RAHMAN SARFARAZ RANOM IOBALÍRAFIO Chartered Accomplants

Karachi

Date:

May 31, 2024

UDIN:

AR202310313her8wzxe2

Russell Bedford International non-named was tall executed to lead of 2000



Statement of Profit or Loss

For the year ended June 30, 2023

	"Vixio	2023 	2022 pres ———	
Administrative expenses	<i>!</i> †	(85,970)	(83,075)	
Other income	13	2,547,232	1,229,386	
Profit before taxation		2,461,282	1,146,311	
Taxation	13	(492,256)	(240,725)	
Profit after taxation		1,769,026	905,536	

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

Waserfulden

Statement of Comprehensive Income

For the year ended Juste 30, 2023

	3023 	?022 apees	
Profit after taxation	1,969,026	905,586	
Other comprehensive income	-	~	
Total camprehensive income	1,969,026	905,586	

The annexed notes from 1 to 18 form an integral part of these financial statements.

constructive Characteritive

March jeddien

Statement of Changes in Equity For the year ended June 30, 2023

***		lassed, subscribed and paid-up capital	limppropriated profits	Total
			Rupaes	
	Balance as at Jane 30, 2021	000,550,01	2,940,795	12,940,795
em.	Total comprehensive income for the year ended June 30, 2072			
	- Profit after taxestion		905,586	905,586
(%))	- Other comprehensive income	<u> </u>	905.186	905,586
r a	Balance as at June 30, 2022	10,000,000	3,846,381	13,846,381
PT.	Total comprehensive income for the year ended June 30, 2023			
	- Profit efter maution	-	1,969,026	1,969,026
***	- Other comprehensive income		1,969,026	1,969,026
(m)	Вайлее эз эт Јаке 30, 2013	10,000,000	5,815,406	15,815,406

The annexed notes from 1 to 18 form an integral part of these financial statements.



Maril peldin

Quin

Statement of Cash Flows For the year emled Jone 30, 2023

•	2023	1022	
	Rapees		
Cash flows from Operating Activities			
Profit before taxation	2,461,282	1,146,711	
Working Capital Changes:			
Increase in receivable from holding company	(250,000)	(150,000)	
Increase in accrued liabilities	21,580	62,580	
	2.232,862	1,058,891	
Income tax paid	(382,088)	(182,194)	
Net cash from operating activities	1,650,774	\$76,697	
Net change in cath and cash equivalents	1.850,774	\$76,697	
Cash and cash equivalents at beginning of the year	15.801,415	14,924,718	
Cash and cash equivalents at end of the year	17,452,189	15,801,415	

The annexed notes from 1 to 18 form on integral part of these funncial statements.

Chief Executive

Brown pedden-

Notes to the Financial Statements For the year rested Jame 10, 2075

LEGAL STATUS AND NATURE OF BUSINESS

- DHA Energy Supply Company (Private) Unuited (the Company) was incorporated in Pakistan on March 02, 2017 as a private company limited by shares under the Companies Ordinance. 1934 (new Companies Aut, 2017). The registered office of the Company is bound at 2-B. East Street, Plassed, DHA, Karachi, in the province of Sizok. The principal objectors of the Company are so carry out the businesses of generaling, punchasing, importing, transforming, convening, distributing, supplying, experting and dealing in electricity and all other forms of everys and products as services associated therewith and of promoting the contervation and efficient ass of electricity and to perform all other acts which are necessary or incidental to the business of electricity generation, transmission distribution and supply
- 1.2 The Company had applied for distribution license to supply electric power in OHA Kurnchi areas. K-Electric (KE) filed a soit in the Sinda High Court (SHC) against the Company, National Electric Power Regulatory Ambertay (NEFRA) and others chartenging the same as KE trul been granted "exclusive right" to generate and distribute electric power in that some However, effective tuly 2023, the exclusive right of KE has been revealed and other enclairs are also allowed to supply electric power in Nacachi. Therefore, the Company intends to take up its application filed earlier with NEFRA and expects that distribution license will be granted to the Company.
- 1.3 The Computy is a wholly owned subdislary of DRA Energy and Services (Private) Limited. The ultimate parent of the Computy is Political Defence Officers Housing Authority.
- 1.4 There the next reserves on presented as rand aline the web to decrease
- 2. BASIS OF PREPARATION
- L1 Statement of enceptance

These Gaussial suscenters have been preparal in accordance with the accounting and reputing students as applicable in Publisher. The according and reporting students applicable in Publisher comprise of:

- International Function Reporting Standard (IFRS) listed by the International Accounting Standards
 Roard (IASB) as notified under the Companies Act, 2017, and
- Providures of and directives asserd under the Companies Art. Not.

Where provisions of and directives inseed under the Companies Act. 2017 differ from the IFRS, the provisions of and directives issued under the Companies Act. 2017 have been followed.

2.1 Back of mensurement

These figure's resonants have been prepared under the historical and convention.

2.3 Conclination presentation correspon

These financial somements are presented in Pakistani Rupers, which is the Company's financiant and presentation currency.

Beren

2.4 Critical purnaturing estimates and judgments

The precomition of the financial entendents in confirming with approved excessing standards, as applicable in Pakistan, reported misagement to unfair refinates, to complient and use judgment that affect the application of accounting policies and the exposed amount of useds, haddines, increase and exposed that attempts and judgments are commonly evaluated and to: based on alconomic exposures and other factors that are believed to be reasonable under the curvantances.

Revisions to accessing coinsists are recognized in the period in which the commute are revised. These are no access where judgement and entimates have been used in these transcial statements.

3. NEW ACCOUNTING PRONOUNCEMENTS

3.1 Amendments to published accounting and reporting standards which become effective during the year:

There were certain amendments to the accruating and reporting usuafacts which become countries for the Company during the voter. However, the accordances did not have any significant impost on the financial reporting of the Company and, Jerrefore, have not been dischered to these financial statements.

3.2 Amendiscous to published accounting and reporting standards that are mayet effective:

There are certain encodenced to the accounting and reporting standards that will be mandmany for the Company's standard occurring periods beginning on or after July 1, 2023. However, these amendments will not have any against impact on the financial reporting of the Company and, therefore, have not been disclosed in these financial statements.

4. SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements have been consistently applied to all the periods presented.

4.1 Provisions

Provisions are recognized when the Company has a presum, legal or construct to obligation as a could of past overal, it is probable that an outflow of resources embodyles occasion benefits will be required to with the obligation and a reliable estimate of the amount can be made. However, partitions are reviewed at each reporting date and adjusted to reflect the content best estimate.

4.3 Floorcial assets

4.2.4 Initial recognition, charaffication and measurement

The Company recognizes a financial asset when end only when it becomes a certy to the contractual provisions of the instrument cristoacing investment. The Company classifier its financial assets into either of following three entegories:

- (a) financial spect occurred at expertized cost;
- (b) financial siscu et fas value flough other comprehensive income (FVOCI): and
- (c) Generald asserts at felt value through profit or loss (PVIPL)
- (a) Epianetal auxis recovered at americal cost

A functial state is measured at attentized cost if it is hold within business madel whose objective is to hold assess to called communications like as and its contractual terms give rise on specified does to each those that are safely payments of prainipal and interest on principal account outstanding.

ليونوندون

Such femolish for-to me subject, evapored in the value plan near new coast that are decetly attributed to the adulishment of the subject of the particular o

(h) Falendel coops of FVOC)

A financial sect is classified as at his value through other comparations we have when it is baid within a business model whose objective is reduced by hose collecting consecutor each flows and selling financial assets and no electromial terms give the no specified dutes to each flows that are solely payments of principal and interest on the principal monour outstanding.

Such forested source are latitudy measured or fair value give incurred on costs that are directly attributable to the acquisition or issue thereof.

(c) Financial masts in FFTP!

A financial ever shall be measured in fair value through profit or less unless it is measured at amortised cost or at fair value through other comprehensive income, in affirested. However, for an investment in equity instruminat which is not hold for traditing, the Company may make an irrevolution to present in other comprehensive income subsequent changes in the fair value of the investment.

Such financias ussers are initially recossored at this value.

42.2 Salmequent measurement

(c) Emanetal assert measured at amorated cost

These spaces are subsequently measured at associated over (determined using the effective interest method) less occumulated impairment interest.

interest / markup income, foreign exchange gains and lustres and impriment losses arising from such financial assets are recognized in profit of loss

(b) Financial assess at FVOCI

These are naturequently measured as fair value less accumulated expainment lowers.

A gain or less on a financial asset measured at fair value strongly other comprehensive income in accordance is recognised in other comprehensive income, except for impairment gains or losses and foreign each arge gains and losses, until the financial solet is descriptived or reclassified. When the financial solet is descriptived or reclassified. When the financial easet is descriptived the cumulative gain or loss previously recognised in other comprehensive become is reclassified from equity to profit or loss as a reclassification adjustment faterest is calculated using the effective interest method and is recognised in profit or loss.

(c) Floweld assets in FYTPL

These system are subsequently mensured at fair value.

Not gains or besos arising from remeasurement of such fluoricist assets in well as any interest income according thereon are recognized in the statement of proin or lass. However, for an investment in equity framewers which is not held for trading and for which the Company has reads an investment in equity framewers in other comprehensive income subsequent changes in the fair votes of the investment, such gains or known are recognized in other comprehensive income. Further, when such investment is disposed off, the cumulative gain or loss previously secognized in other comprehensive income is not reclassified from equity to graft or loss.

Darre

4.2.3 Impairment

The Company recognities a base observed for expected credit lesson in respect of financial assets measured at amortised cost.

For trade receivables, the Conspany typilor, tre, 1985 9 throptified Approach to measuring expected credit losses which was a lifetima expected loss allowance

For other fluxiceal sesens, the Company repriles the IFRS 9 General Approach' to measuring expected credit losses whereby the Company measures the loss allowance for a financial instrument at an amount equal to the lifetime expected credit lesses if the arefit risk on that financial instrument has increased signal-carrily sloce initial recognition. However, if, or the reporting date, the credit risk on a financial instrument has not increased seguificately since initial recognition, the Company measures the loss allowance for that financial instrument at m amount equal to 12-month expected credit losses.

The Company measurer expected credit losses on lineacial sesten in a way that reflects an emblased and probability-weighted amount, three value of money and crassmable and respectable information at the reporting date about the past events, correct conditions and foreign of floure economic conditions. The Company recognises in profit or less, as an impairment loss, the amount of expected credit losses (or reversit) that is required to adjust the loss allowance at the reporting time.

Loss advances for financial agents measured at announcil continue decisived that the great corrying amount of the starts

43.4 De-reorgalilon

Financial assets are derecognized when the rights to receive cath flows from the fauncial assets have expect or have been transferred, and the Company has transferred substantially all risks and revenues of ownership.

4.) Flancial Inhibites

Elemental field the are classified as measured at amortized cost or at fast value through profit or loss' (FVTPL). A first-rist liability is constitled as at FVTPL if it is classified as bold for midding, it is a derivative or it is designated as such on achief recognition. Financial liabilities at FVTPL are measured at fair value and are game and basen, including any interest expense, are recognized in the statement of profit or loss and other comprehensive income.

Other financial fabilities are subsequently measured at amortized cost using the offective interest method. Interest expense and foreign exchange gains and losses are recognized in the statement of profit or loss. Any pain or less on de-recognized in the statement of profit or loss and other comprehensive income.

Financial liabilities are demonstrated when obliquines under the Halchry is discharged, cancelled or expired

4.4 Cash and cash equivalents

For the purpose of statement of each flows, each and each equivalents comparises beliances with banks.

4.5 Taxatlan

Provision for current exection is besed on the exactle income for the period determined in necessiance with the percapiling law for taxation on income. The charge for current tax is following applicable tax rates, based on tax laws curried in the cond of the reporting period.

Denver

		·	

,	4.6	Асстия верения	
m,		These we corred as that which is the law value of the confidenation in be services received, whether or not british for the Company	e place in the linture for goods and
***	4.7	lateres income	
en		laterest income as account on a time propuriousce bases, by reference to a speliculate effective solerest rate.	ic práchaí outstanding and at the
	4.8	Fureign currency acanslation	•
		Transactions in foreign current is are translated in Patricia Repeat using the fact of transaction. Movestry, moves and liabilities in foreign timeration a using the rates of exchange at the reporting time Exchange gains tend look continue, grantscaled and franslation of paraettery paster and liabilities denot	re translated law Pakistan Rupots see leaks the septement of foreign
		exporting date are included in antennent of psofit or loss approved.	•
¥PR	4.9	Offerting financial assets and floorecal liabilities	
₩		A figure is used and a figure it liability is offset and the not amount is reposition, if the Company has a legality enforceshio right to set off, and also it or to realize the asset and active the liability simultaneously.	
i.	4.10	Borrowings and bocrowing costs	
***		Borrowings are econgulated initially at thir value that of presentate obsits, a using the effective industry method. Decrowings populate without exist evolvhability. Decrowing cours are recognized as an expense in the period in whit such costs are describ sorthumble to the acquisition, communities or production costs are expinitized as pure of the cost of that other	e moushs are classified as current ish they are incurred curept where
•	5.	RECEIVABLE FROM HOLDING COMPANY	
		This expression wassers due from DHA Energy and Services (Private) Li sespect of fields transferred to them.	bruted (ties Holding Company) in
. ~		sembel of trans amore, we where	1013 3022
	6.	BANK BALANCES AND	2023 2022
£16		Cach at bank - proving account	17,652,187 [5,301,415]
*	6.1	It certies interest at an avertage rate of 14.5% (2022; 9.75%) per autous	
	7.	Share Capital	
**		2023 2022	2023 2027
		Kimper of spaces	···· Rypres
~		Authorised cipital	•
		10.000.000 10.000.00 Ordenry there's of Rs. 10 each	(X0.000,000 100,000,000
4 78		Issued, subscribed and juid-up expiral	
		1,000,000 1,000 100 Ordinary sharen of Rs. 10 coch fully posit in coch	10,000,000 10,000,000

		•			
	7_1	The Company dra one chois if indicary stones which emilied to one rose par shore of account of the Lordon resident assets.			
	7.2	As at June 30, 2023, all shares of the Computer were be	eld by DHA Energy	osvá Services (Priv	ate) Limited (the
***		Holding Company).			
•				2023	2022
ere.			hote	Rupe	į
5	5.	ACCRUED LIABILITIES			, :
		Andie fers		105,200	\$2,600
**1		Professional for		25,000	27,500
		Whisholding sales tax payable		3,120	2,640
P. P.				1.4.320	112.740
	_	The state of the s			
	9.	Payable to ultimate Parent			
n.ř		Expenses incurred on behalf of the Company	9.7	6.070.275	6,070,275
					-
4	9.3	These amounts were paid by that altimate parent to the ve	radors to sufferit wo	ring cipital	
		derende an analysis and who who are a recent that the substitution of the substitution and the deservoir of the best of the substitution of the su			
а	10.	Contingencies and Commitments			
ring.		There were no contingencies and constitutions outstands	ine na at June 30. 20.	23 (2022: na disele	sed in note \$.2)
:		**************************************			
		•			### ###
M			67	2023	2022
	,,	a na kopina strupest a mestere increse marcine	Nore	Roy	(A)
	11.	ADMINISTRATIVE EXPENSES			
		Professional charges		15,000	27,300
		Audious' removarion	12.1	99,0 0 0	47,200
-		Free and subscription		11,970	\$,375
			•	85,970	\$3,075
		•			
H4	11.1	Andidurs' remaneration			
•		4 - 35 6		\$4,000	43,200
		Audit fees		5,000	4,60B
en en		Out of pockut expenses		59,000	47,200
				Company of the Company of the Company	
ia	12.	OTHERINCOME			
cile					
		Instruct on savings activant		2,547,252	1,214,626
g# 3		Other facome		4 444 453	1.229.386
					1,127,230
	13.	TAXATION			
Pirig	•	Transfer of the second of			
		Current		492,256	240,725
_					
	9.	in the second			
	***	₩			

6,120,375

6,201,475

14. TRAN	SACTIONS WITH RELATED PARTIES
----------	-------------------------------

Related parties of the Company comprise of parent entity, compenses under common control, key management personnel and directors (as well as their close family members). Details of transactions and balances with resued parties, except as disclosed elsewhere in the financial sustainments are given below:

,					
	Name of Related Party	Relationship with the Company	Marure of crans seriou		•
				2023	2022
		·	•	Ruo	:cs
	DHA Energy and Services (Private) Limited	Holding company	Funds transferred	400,000	isopóo
				2023	2022
	FINANCIAL INSTRUMENT	3		Rup	265
l	Floancial lastraments by ente	for			
	Financial assers measured at a	morthed cost	-		
	Receivable from holding comp	±ny		400,000	150,000
	Bank balances			17,652,189	15,801,415
				18,052,189	15,951,415
	Financial Itabilities measured i	a cmartized cast			
	Accreed Habilities			131,200	210,100
	Payable to ultimate parent			6,070,275	6,070,275
	- · · · · · · · · · · · · · · · · · · ·		1		

The Company has exposure to the following risks from financial instruments:

- Market risk

15.2 Financial fink analysis

- Credit risk

15. 15.1

- Liquidity risk.

This note presents information about the nature and extent of risk to which the Company is exposed, arising from financial instruments and the risk messagement framework of the Company.

15.2.1 Market risk

Market risk is the risk that the value of the financial instrument may fluctuate as a result of changes in market inserest rates, fineign exchange rates or the equity prices due to a change in credit rating of the issuer or the instrument, change in market sersiments, specularive activities, supply and demand of securities and liquidity in the market Market risk comprises of three systes of risk; canoncy risk, insurest rate risk and other price risk.

(i) Currency risk

Correctly risk is the risk that the fair value or future cash flows of a financial instrument will fluorante because of changes in foreign exchange rates. The Company's exposure in the risk of changes in foreign exchange rates relates primerily to the Company's operating activities (when revenue or exponse are denominated in a different correctly from the Company's functional currency) As at June 30, 2023 the Company is not exposed to correctly risk.

Rever

Page - 16

Item # 8

(ii) Interest sute sisk

Interest rate tisk is the risk that the fair value or future cesh flows of a feature in instrument will fluctuate because of changes in market interest cutes. The Company's interest rate risk orises from saving account with book amounting to Ra.17.65 million. The effect of changes in interest rates is not considered to have a material effect on the financial statements.

(II) Other price risk

Price risk is the risk that the fair value or fixure cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual fluctuation instrument or its issues, or factors affecting all shutler financial instruments useded in the market. As at Anne 30, 2023, the Company is not exposed to price risk.

15.2.2 Credit risk and concentration of credit risk

Credit risk is the risk that one party to a financial instrument will fail to discharge an obligation and cause the other party to incur a financial loss, without taking into account the fair value of any collateral. Concentration of credit risk arises when a number of counter parties are engaged in similar business activities or have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic, political or other conditions. Concentration of credit risk indicates the relative sensitivity of the Company's performance to developments affecting a particular industry. As at June 30, 2023, the financial assets which are subject to credit risk amounted to Rs. 17.65 million which constitute bank balances.

The Company is exposed to credit risk on deposits with bank. The credit risk on liquid funds is limited because the counter party is bank with reasonably high credit ratings i.e. A-2 in those term and A- for long term.

15.23 Liquidity risk

Liquidity risk represents the risk that the Company will encounter difficulties in mosting obligations associated with funncial highlities that are ected by delivering each or another funncial asset

The table below summarizes the manurity profile of the Company's financial liabilities based on contractual undiscounted payments.

	Änn. Anithin oue	lo 5 years	Total

June 30, 2023	•		**
Payable to oldeste parent	6,970,275	**	4,070,275
Accrued liabilities	131,200	*	131,200
	6,201,475		6,201,475
June 30, 2022			
Payable to ultimate parent	6,070,275	•	4,070,275
Accrued liabilities	110,100	·	110,100
S. B. M. Warner and N. Co. D. Co.	6,180,375		6,1∜0,37≴

15.2.4 Risk management policies

Since the Company has not commenced its operations, it has not yet formulated its formal risk management policies.

15.2.5 Capital management

The Company's objectives when managing capital are to sufeguard the Company's ability to continue as a going coccern in order to provide adequate relates to shareholders, benefit to other stakeholders and to maintain an optimal capital atmospher to reduce the cost of capital. The Company is not subject to any externally imposed capital requirements.

Ruin

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VAIR VALUE OF FINANCIAL ASSETS AND FINANCIAL LIADILITIES 16,

Fair value is the aspects for which an over cook be endonged, in a fishility stated, between knowledgeable willing parties to an area's length transaction ocus; then it a forced or Equidation rate.

The carrying values of all financial assets and Habilities reflected in the financial statements approximate their KHESE VIEW

Fair value hierarchy

The following table provides an intelests of financial instruments that are treasured subsequent to initial terograpion at fair value, grouped isso Levels 1 to 3 based on the degree to which the fair value is observable.

- Lines is that rather presentations are those derived from quoted prives (consijusted) in native markets for identical essen ve habitatica.
- Lovel 2: fair valve measurements are those derived from invers other time quoted proces included within Level t tion are observable for the usen or liability, either directly (i.e. as prices) or indirectly (i.e. derived tions perces).
- I evel 3: Frit value measurements are Couse derived from valuation techniques that include injusts for the accest or liability that are not based on observable market data (unoincretit's lopost).

As at reporting date, the Company does not hold any firmucial instruments which have been carried as fair values.

DATE OF AUTHORISATION FOR ISSUE 17.

These financial sessenants were notherised for issue by the Bears of Directors of the Company on 16 200 J. 30 Tr.

11. GENERAL

- Figures have been arounded off to the ocurest Rapec. 18.1
- There was no person in the employment of the Company. The efficient the Company are managed through the 18.2 scall of chimate parets.

Wasel uddan

EXPRESSIONS OF INTEREST TO PROVIDE CREDIT OR FINANCING ALONG WITH SOURCES AND DETAILS THEREOF

The expressions of interest to provide credit or financing along with the sources and details thereof are appended herein below.

Item No. 9

Expressions of Interest To Provide Credit or Financing Along With Sources And Details Thereof



29 August 2024

DHA Energy Supply Company (Private) Limited ("DESCO") 2-B East Street, Phase 1 DHA Karachi

Expression of Interest for financing DESCO

Dear Sir.

This is with reference to our various discussions with respect to above captioned subject, based on which we are given to understand that:

- DHA Karachi has established two energy companies namely DHA Energy and Services (Pvt) Ltd which serves as the parent organization for the DHA City energy project and will provide management expertise and financial support for the success of its project, while DHA Energy Supply Co. (Pvt) Ltd (DESCO) is responsible for the operational aspects, i.e. energy procurement, metering, billing, maintenance & customer support for DHA City project residents.
- It is our understanding that DESCO company's scope includes responsibility for distribution, purchase, sale and supply of electricity to consumers and will manage energy procurement, metering, billing, maintenance and customer support while adhering to relevant regulations.
- Further work is currently being done in order to finalize the DESCO structure and it is envisaged
 that potentially financing of up to PKR 4 billion will be required for the purposes of its future
 development, construction and commission of the DESCO
- The subject project is anticipated be funded in a debt to equity structure of 70:30.

In this connection, we would like to inform you that United Bank Limited ("UBL") would be interested in assuming a participation and arrangement role in relation to debt arrangement subject to our satisfactory due diligence of the DESCO's project.

Please note that this expression of interest ("Eoi") is based on our best assessment of the transaction, given the currently available information and may not be construed as a commitment on the part of UBL or any of its subsidiaries or affiliates, to either advise or arrange the required financing at this time. Our final decision to advise on and/or arrange the required debt will, among other things be subject to: a) satisfactory due-difigence of your requirements, including but not limited to financial and legal/documentary due-difigence, b) satisfactory feasibility and bankebility of the transaction, including without limitation compliance with the financial coverants that may be imposed on the Transaction, c) final security structure, sponsor support, and coverage ratios, and d) formal internal credit approvals of the participating institutions.

We look forward to working with you on this interesting vanture.

Sincerely,

Mishal Quadri Head DCM & Syndications

GE - Corporate & Investment Banking Group

United Bank Limited
UBL Head Office, I.I. Chundriger Road, Kerachi, Palistan.

111-825-886 💆 www.ubldigibal.com 🖺 UBLUnitedBanklad.





Pakistan Defence Officers Housing Authority

In reply, please quote: DHA/S&F/2024

Date: 12 Sep 2024

To:

National Electric Power Regulatory Authority

NEPRA Tower

Opposite to Federal Flood Commission

East, Ataturk Ave, G-5 / 1 G-5,

Islamabad

Subject:

Supply and Distribution License for DHA City's Energy Project

1. We are pleased to provide you with an overview of the ongoing initiatives by Defense Housing Authority Karachi (DHAK) and DHA City (DHAC) concerning the development of energy infrastructure for DHA City, located on M9 in Karachi.

2. Background

- a. <u>Defense Housing Authority Karachi (DHAK)</u>. Established under Presidential Order No. 7 of 1980, DHAK is one of the three Real Estate entities tasked with overseeing real estate and infrastructure development in Karachi.
- b. **DHA City (DHAC)**. As a prominent project under DHAK, DHAC focuses on the development of infrastructure and essential services for DHA City, which is strategically situated on M9 in Karachi.
- 3. <u>Energy Infrastructure Development</u>. To support the growth and development of DHA City, DESCO shall submit an application to the National Electric Power Regulatory Authority (NEPRA) for a supply and distribution license. This license will facilitate the provision of electricity to residents of DHA City.

4. Energy Companies

- a. **DHA Energy and Services (Pvt) Ltd (HOLDCO)**. HOLDCO serves as the parent organization for the DHA City energy project, providing essential management expertise and financial support to ensure the project's success.
- b. **DHA Energy Supply Co. (Pvt) Ltd (DESCO)**. DESCO is responsible for the distribution and supply of electricity as a supplier of last resort in DHA City.
- 5. **Strategic Importance**. The establishment of these energy companies reflects our commitment to delivering reliable and efficient electricity services, which are critical to the development and appeal of DHA City. By seeking the necessary regulatory approvals and implementing a robust operational framework, DHAK and DHAC aim to enhance the quality of living for our residents and DHAK will provide management expertise and financial support to DHAC and DESCO for the success of its project.

Asim Ali, Si(N) (Retd)

Pakistan Defence Officers Housing Authority



October 10th, 2024

402 Progressive Center Sharah-e-Faisal, Karachi, Pakistan

Phone +92 21 34322551-3 Web +92 21 34322551-3 www.uhy-hnco.com

The Client,

Barrister Faisal Malik Chief Strategy and Finance Officer Defense Housing Authority (DHA) Karachi.

Limited Assurance Report Relating to Electrification charges

This is with reference to our engagement on verification of electrification charges, as agreed, I enclosed our report based on the summary expenditure report provided by the management of DHA City.

Regards,

Imran Iqbal Senior Partner



402 Progressive Center Sharah-e-Faisal, Karachi. Pakistan.

Phone +92 21 34322551-3 Web www.uhy-hnco.com

LIMITED ASSURANCE REPORT TO THE MANAGEMENT OF DEFENCE HOUSING AUTHORITY, KARACHI.

Introduction and scope

We have been engaged to perform a limited assurance engagement on verification of Rs.3.497 billion electrical infrastructure expenditure incurred by Defence Housing Authority, Karachi at its DHA City Project premises from year 2015 to year 2024.

Management's responsibility

Management is responsible for the preparation of summatized expenditure report of Rs.3.497 billion incurred on development of electrical infrastructure within DHA City Project premises during 2015 to 2024 (expenditure report). The responsibility of the management includes selection and application of appropriate methods to prepare the report and use of assumptions and estimates which are reasonable under given circumstances. Furthermore, this responsibility includes designing, implementing and maintaining systems and process relevant for preparation of the expenditure report in a manner that is free from material misstatements.

Auditor's responsibility and assurance standards

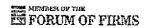
'Our responsibility is to carry out an assurance engagement on summarized expenditure report and to express an opinion with limited assurance based on the arturance procedures performed.

We conducted our engagement in accordance with the International Standard for Assurance Engagements (ISAE) 3000: "Assurance Engagements other than Audits or Reviews of Historical Financial Information", issued by the International Auditing and Assurance Standards Board. Amongst others, this standard requires that the members of our assurance team have appropriate knowledge, skills and professional qualifications to understand and evaluate the key performance indicators, and that we comply with the requirements of IFAC Code of Ethics for Professional Accountants to ensure our independence.

According to ISAE 3000 we have to plan and perform the assurance engagement to obtain limited assurance of whether any matters have come to our attention that cause us to believe that the Summarized Expenditure Report has not been prepared in all material respects and in accordance with acceptable reporting framework.

The procedure performed in a limited assurance engagement vary in nature and timing from and are less in extent than for a reasonable assurance engagement; and consequently the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

This assurance engagement is limited primarily to review the occurrence, accuracy, completeness and existence of the expenditure incurred by the Defence Housing Authority Karachi with respect to electrification works carried out within the DHA City Project Premises Karachi.





Within the scope of our engagement, we performed amongst others the following procedures:

- Inspecting the contractor's agreement;
- Review of supporting documents;
- Review of approvals of payments
- Tracing the payments through bank statement.

Conclusion

Based on the procedures performed and evidences obtained, nothing has come to our attention that causes us to believe that the summarized expenditure report is not prepared, in all material respects, in accordance with acceptable reporting framework.

Restriction of Use

This limited assurance report is issued for the purposes of National Electric Power Regulatory Authority (NEPRA) and should not be utilized for any other purpose.

Date: 10th October, 2024

Karachi

Chartered Accountant
Engagement Partner: Imran Iqbal

Electrification Charges Defence Housing Authority Karachi at its DHA CITY Premises From 2015 to date

	SUMMARY EXPENDITURE REPORT		
S.No.	Description	Amount	Details
1	Summary of Payments -A	3,014,363,152	W1
2	Summary of Payables - B	483,438,092	W2
3	Summary of Expenditure Incurred A+8	3,497,801,244	W3
V1			
	SUMMARY OF PAYMENTS		
S.No.	Description	Amount	Details
	Payments		***
1	Contract Agreement Concluded by D&C Dte (Electrical Works)	1,642,317,355	Annex-A
	Contract Agreement Concluded by DHAC (Electrical Works)	248,968,546	Annex-B
3	Procurement Purchase Orders	1,109,291,934	Annex-C
4	Remaining Contract Agreement Contracts	13,785,317	Annex-D
	Total Payment till to date	3,014,363,152	
S No	SUMMARY OF PAYABLE Description	Amount	Details
S.No.		Amount	Details
	Payables CA concluded by D&C Dte (Electrical Works)	391,055,018	Annex-A
	CA concluded by DHAC (Electrical Works)	84,201,824	Annex-B
	Procurement Purchase Orders	-	
	Remaining Contract Agreement Contracts	8,181,250	Annex-D
	Total Payable till to date	483,438,092	
N3			
	EXPENDITURE REPORT		
S.No.	Description	Amount	Details
1	Contract Agreement Concluded by D&C Dte (Electrical Works)	2,033,372,373	Annex-A
2	Contract Agreement Concluded by DHAC (Electrical Works)	333,170,370	Annex-B
3	Procurement Purchase Orders	1,109,291,934	Annex-C
	Remaining Contract Agreement Contracts	21,966,567	Annex-D
4	Remaining Couract Agreement contracts	23,200,000	7411101

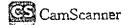
Prepared by the Management of Defence Housing Authority Karachi.

Approved By

Haseeb Hafeezuddeen Chlef FinanceOfficer

Defence Housing Authority City (DHAC)

Barriator Faisal Invan Hussun Malit, PCA Chief Strategy & Finance Officer OHA Xarachi



ANNEX -C-5

DOCUMENTS DESCRIBING THE NET WORTH AND THE EQUITY AND DEBT RATIOS

Document describing the net worth and the equity and debt ratio of DESCO is appended herein below.

Furthermore, please refer to DESCO's audited financial statements appended herewith as **Annex A-3.**



Item No. 10

Documents Describing The Net Worth And The Equity And Debt Ratios of The Applicant, As on The Date Of The Audited Balance Sheet Accompanying The Application



Rahman Sarfaraz Rahlm Iqbai Rafiq

CHARTERED ACCOUNTANTS THE NO. 10

Pigs Ho. 180, Blook-A. S.S.C.J.S. Karechi/TedOC, PAKISTAN. Tai, No. 1(021) 34548345-T E-Alad Jirdie@radicosto Wybalkiz terroczanicastwa Otwa Odicas al Januar Januarick F Managachut

December 11, 2023

DHA Energy Supply Company (Private) Limited 2-8, East Street.
Phase-I, DHA
Ramehi

DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

We refer to your small dated November 29, 2023 wherein you have requested us to provide us with certain ratios in respect of financial statements of the captioned Company for the year ended June 30, 2022. In this connection, we are pleased to present these ratios based on the financial information for the year then ended:

This letter has been issued only at the request of Company's management without any risk and responsibility on our part, for their internal purpose, and is not to be used for any other purpose.

Yours truly.

RAHMAN SARFARAZ RAHIM IQBAL RAFIQ Chartered Accountants

A point of Russell Badfors International A point must be advantage according 1986.

ANNEX - C-6

PROFILE OF COMPANY, ITS MANAGEMENT STAFF AND ITS MEMBERS IN THE ELECTRICITY INDUSTRY

DHA Karachi is the primary sponsor of DESCO and is taking the lead in this project. DHA Karachi's profile is appended herein below along with the teaser of the DHA City project.

ANNEX - C-7

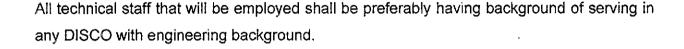
EMPLOYMENT RECORDS (CVs) OF ENGINEERING AND TECHNICAL STAFF OF THE PETITIONER PROPOSED TO BE EMPLOYED

Curriculum vitae(s) of the engineering and technical staff of DESCO are appended herein below.



Item No. 12

Employment Records of Engineering and Technical Staff of the Applicant Proposed to be Employed



All fresh Engineers/DAE qualified person shall undergo training before putting on the job.

Criteria/qualification for selection in different departments of the DISCO shall be in accordance with the procedures followed by other DISCO(s) under NEPRA.



Item No. 11

A Reasonable Detailed Profile of The Applicant Senior Management, Technical and Professional Staff

Detailed Profile of Technical and Professional Staff at present are as attached.

Lt Col MUHAMMAD MAZHAR UDDIN AHMED (Retd)

House # 106/2, Zahidan Lane, Mašr Cantt, Karachi (1921-335261650), (0921-3000903826, E-mail minichanuddin Sigmail com

Objective

After concluding more than 25 years of meticulous, challenging and inspiring services in Pakistan Army (Corps of Electrical and Mechanical Engineering). I am pursuing similar professional opportunities towards my goals for a successful career path by joining hands together to an organization with whom my existence, worth and result oriented proficiency can reach to the top of line that to depends upon to whom I associates with.

Skills & Abilities

- Project Management
- Human Resource Management
- · Team Building and Leadership
- Quality Control Management
- Occupational health and Safety Management
- · Supply Chain Management
- Troubleshooting Testing and Diagnostics
- Inspection and Performance Evaluation
- Modeling and Simulation Techniques
- TMDE
- Computer Software
 - ✓ MS Office
 - MS Project

Highlights of Career History (Duration Sep, 1993 - To date)

<u>Company</u>	<u> Pesignation</u>	Duration
DHA City Karachi	Dir (E&M Dte)	Aug 2021 to date
Inst of Business Management	Senior Manager	2018 to Jul 2021
Army Regional Workshop	Deputy Corhmandant/ Director Production	2 x years (2016-2018)
Directorate of Design and consultant (E-in C Br, GHQ)	Principal Engineer	2 x years (2014-2016)
Army Spares Depot	Head of Depot	2 x years (2012-2014)
College of Electrical & Mechanical Engineers	Senior Instructor / Assistant Professor	2 x years (2009-2011)
Mil Dairy Factory Okara	Project Officer	More than two years (2002-2005)
Army Electronics Base Workshop	Officer in-charge Thermal Imager Lab	More than 5 years (1998-2002)
Army Repair & Maintenance Workshops / Units	In-charge for repair, maintenance & Quality Assurance Department	More than 5 years (1993-1998)

Personal Details

•	Father's Name:	Muhammad Hussain Khan	Nationality:	Pakistani
•	Date of Birth:	8 ^ก)บท, 1967	N.I.C No:	42101-1673034-7
•	Domicile:	Karachi	Religion:	Islam



Professional Qualification

College Comments and Comments a	· HARMAN SANS		
MS (Electrical)		NUST	2009
BE (Electrical)		NED UET	1993

Courses / Skill Developments

- Harris communication setrepair and maintenance course 2011 502 Base
 Workshop Electrical And Mechanical Engineers
- Supply Chain Management Course | 2010 | College of Electrical and Mechanical Engineering
- Advance Management Course | 2002 | College of Electrical and Mechanical Engineering
- Repair and Maintenance Course of Thermal Imagers | 2000 | Thomson CSF, France
- > Office Automation Course | 2000 | Institute of Information Technology, Islamabad
- Night Vision Devices Specialist Course (1999) College of Electrical and Mechanical Engineering
- > Java course | 1999 | Institute Of Information Technology, Islamabad
- > Electro-medical Equipment Specialized Course | 1996 | College of Electrical and Mechanical Engineering
- > Post Graduate Diploma | 1995 | College of Electrical and Mechanical Engineering

Achievements (Hi-lights)

- Energization of Sec-14 through KE feeder by laying of MV/LV UG cables and other infra.
- Successful operation and maintenance electrical network of DHAC since last 2 years.
- Load Assessments of DHA Sectors as per NEPRA CSM and signed them off with KE.
- Logistic Support Projects, during 2016-17 and 2017-18 were carried out very efficiently, with in due timeline and provided budgets.
- Occupational health, Safety and Environment Management System of Base Level Workshop was formulated and executed at Army Regional Workshop.
- Successfully evaluated and vetted HVAC and Electrical system Design of forensic Laboratory of Afghanistan Arm Forces Jalalabad.
- Established process performance metrics to track, analyze, and report performance in terms of quality, safety, cost and customer satisfaction.
- Served as technical member of Army Clinical Audit Team of South region's Combined Military Hospitals.
- Supervised the executed vehicle maintenance program including the direct supervision of 15 to 25 production supervisors overseeing anywhere from 400 to 950 personnel.
- Planned and executed technical evaluation and inspection program of vehicles weapons, equipment held with the Units of Army formation in order to ensure operational fitness and readiness of the formation.
- Developed plans in support of contingency operations such as civil emergencies / disturbances, civil defense, disaster relief and operational programs, and combat readiness and deployment plans.

(References can be provided if required.)



and approximate source or sometimes and source super-	LT COL MEHBOOB AHMED (Rekt)
Personal Information	 Data of Birth: 17 Aug 1993 Ceil Number: 0321-6014216 Address: 11 - E, Askari V, Maix Capitt, Karachi. Email: mohboob 1983@hotmoil.com Marned with four children
Career Objective	 To work in a dynamic and challenging environment with the aim to ensure optimum utilization of numer/technical resources and administrative excellence for an efficient productive activity.
Summary	 A highly qualified, results-driven and dependable professional with a broad-based experience of human resource management, administration, security, training and information technology. Technical Evaluation of vehicles, weapons & equipment for inspection, repair and meintenance. Inspections & supervision of workshop for production / quality Has served for 26 years in the army and retired as Lt Col in 2011.
S& its	 Excellent oral and written communication skills in English. Effective administrative, managerial and feadorship skills. Analytical and problem-solving skills. Management, training, planning & quality control in military engineering production. Management & planning of HR for employment on various projects. Expert in the use of computers and internet.
Experience	 Karachi Corps Headquarters: Worked as Project Officer from Sep 2006 Ell Nov 2013 and locked after technical, Commercial and agricultural projects; administrative affairs and security matters including procurement. Pakistan Army: Served in the army from 1983 - 2011 and performed various assignments related to eriministration, security, and technical and information technically. Versatile experience in serving with reputed organization including National Logistic Cell, Pakistan Ordinance Factories, Pakistan Ranger and Central/Base workshops. Baluchistan Wheels Limited: GM Maintenance/GM Technical as we'll as (Factory Head) having approx.500 workforce for nine years. The factory is located at Hub (Baluchistan).

Education	 PGD (Production Engineering): NUST Islamabed, 2000-2001 BSc In Mechanical Engineering: UET Lahore, 1991 BSc: Pakistan Millary Academy, 1986
Professional Training	 Qualified in different Technical, Engineering & HiR Management, Administration, security and leadership courses from armyloviti. List of major courses completed are as under: - Unit Commander Course. Young Officer Technical Course. Proof and Experimental officer course. Testing and proofing of bullet proof jackets.
Foreign Visits	 South Africa: Testing and proofing of bullet proof jackets Telivan: Procurement and inspection of heavy-duty wheels manufacturing equipment, 1000 Ton Hydrausic Press and Test Equipment. Korea: Vish to various auto industry for recommending and finalizing equipment for modernization and upgradation of Beluchistan Wheels Ltd. UAE: Saudi Arabia:
Working with Foreign Engineers and Delegations	Worked with Chinese, Talwanese, Korean, Japanese and Germen Engineers / Delegations for installator and commissioning of heavy equipment, its repair and maintenance with administrative and security support to the foreign delegations. Negotation and finalization of terms and condition for refurbishment of heavy-duty vintage equipment and machinery.

2011



CURRICULUM VITAE

MAJ (R) ALI ASGHAR, TI (M)

PERSONAL DETAILS

Nationality : Pakistani
Date of Birth : 15 February 1971
Cell No : 03337501080

E-mail : ali_90me89@yahoo.com

Married . Married

Address: : Village Muhammad Chattal Channo Teh

Shahdad Kot & Dist! Kamber Shahdad Kot

Language : Proficient in English, Sindhi, Urdu

EDUCATIONAL QUALIFICATION/ MAJOR COURSES

BE (Mechanical Engineering) - Mehran UET Jamahoro : 1995
 Basis Technical/ Administration Course (Mechanical)-24
 College of EME : 1999
 Special Equipment (B-Vehicles) College of EME NUST : 2003
 Mid Carrier Course-40 (Vehicles) - College of EME : 2005
 Fabrication and Machining of Hull / Turret - Batou China : 2006

SHORT COURSES

- Project Management
- Production/ Vehicle Assembly Line Management

Defense Procurement Course (O)-36 - Ord School

- Quality Control Assurance
- Procurement procedures
- Communication/ Interaction Skill Development
- Accounts Handling
- Security of men and material

PRACTICAL HAND/ EXPERTISE

- Electrical Network Infra Structure and Operation and Maintenance;
 3 Years experience of Laying of Infrastructure, Energization & Operation and Maintenance Electrical Network at DHA City Karachi as Deputy Director Electrical & Mechanical Branch from 2021 to 2023.
- Spares Procurement Management: 4 x years' experience in procurement of spares of all type of Vehicles/ Equipment.

:

- Human Resources Management: 20's, years' experience in sorting out skill of under command manpower, segregation and assigning of tasks according to technical, administrative skill of an indiredual so as to get optimum end results.
- Production (Engine/Vehicle) Assembly Line Management: 4 x years'
 experience as Assistant Director Production of Engine as well as Vehicle
 Assembly line Forecasting and scheduling to meet out lined production
 achedules. Coordination and supervision of various sections involved in
 production line so as to feed assembly line stoges well in time.
- Security/ Accounts Management: A vast experience in the field of men and material security.
- Industrial Plant Inspection/ Maintenance: 5 x years of experience in the field of industrial plant inspection and maintenance.
- Production Assembly line Management: 2 x years' experience in vehicle/ engine assembly line.
- Quality Controll Assurance: A vast experience in the quality control department.
- Repair/ Maintenance of Vehicles / Equipment: A vast experience in the field of repair/ maintenance of heavy as well as light vehicles and mechanical mechinery

AREA OF INTEREST

- Administration / Assembly Line management
- Repair/ maintenance/ inspection of industrial plant/ vehicles/ machinery
- Human Resources Management
- Project Management

PROFESSIONAL EXPERIENCE

- 3 Years experience of laying electrical infrastructure i.e. MV/LV cables, Ring main units, Kiosks, transformers, street lights, Operation and Maintenance of leid Electrical Network at DHA City Karachi as Deputy Director E&M Dte DHAC from 2021 to 2023.
- Manager Plant Maintenance Inspection in Aircraft Manufacturing Factory Pakiston Aeronautical Complex Kamra
- Assistant Director Quality Control Heavy Industries Taxile
- Officer Commanding ex en independent body of troops
- Second in Command of an Army Unit.
- Spares Management/ procurement Officer
- Assistant Director Production (Vehicles Assembly & Engine Assembly Line)



Career Objective

To effectively apply my skill and knowledge in a professionally motivating environment where career growth opportunities exist in a way that positively benefits the organization.

Work History

2021 till date Precutive Engineer, Design & Contract Directorate
Defence Housing Authority, Karachi

Responsibilities

Presently dealing with following in light of FIDIC/PPRA Rules/PEC Regulations:-

- Pre-qualification of vendors/contractors/consultants for procurement of goods & services.
- Tech evaluation of BOQs/Cost estimate for Elect Works (individual projects, area electrification schemes, Alternate Energy Frojects).
- Floating of Tender Documents, Issuance of RFPs & relevant correspondence with Contractor/ Consultant/relevant agency.
- Evaluation of bids/proposals, issuance of Letter of Award & finalization of Contract Agreements.
- Assessment of Time Extension / Variation Orders/deviation/emendments/termination.
- Obtaining administrative & financial approvals from the management.

DHA Electric Supply Company (DESCO)

Assisting the Advisor Office responsible for Revival of DHA Distribution Company w.r.t Filing of Supply & Distribution License Applications in NEPRA in light of recently introduced CTECM Model & Licensing Regulators to undertake distribution business & sale of electric power to the consumer in DHA City, Karachi.

2013-2021

Executive Engineer, EdM Sec, Development Directorate Defence Housing Authority, Karachi

Responsibilities

Member of the team responsible for Planning and Construction of 132/11 kV Grid Stations, 132 kV Underground Transmission Line for Electrification of Phase-VIII, DHA Karachi involving:

- Issuance of Tenders, Eval of Bids and Award of Contract in accordance with FIDIC/PPRA/IEC Standards
- Relevant technical correspondence with contractors, consultant and end user
- Site inspections, preparation and verification of bills and assuring compliance with notified specification
- Dealing with areas of deviation from specifications and variation orders, extension in time etc

2006-2013

Asst Executive Engineer, E&M Section Defence Housing Authority, Executi

Responsibilities

Active participation in preparation of feasibility, preparation of contract documents, issuance of Work Order and billing for Supply, Installation, Testing & Commissioning of Solar Energy Projects in DHA Part of Team responsible for preparation of area of electrification scheme of DHA Ph-VIII involving load assessment, selection of equipment and cabling work. Witnessed Type/Routine Tests on HT/LT Cables, Power/Distribution Transformers at:

- M/s Pakistan Cables Ltd, Karachi, M/s PEL, Lahore.
- M/s Universal Cables, Karachi M/s Newage Cables, Lahore.

2005-2006

Internee Electric Engineer

Defence Housing Authority, Karachi

2004-2005

Trainee Electric Engineer GATRON Industries Ltd, Hub, Beluchistan

2003-2004

Trainee Engineer
Pak Aviation Engineering Services

Academics

2002

B.B. (ELECTRICAL), First Division, 2002

NED University of Engineering & Technology, Karachi

1996

Higher Secondary School Certificate, Grade 'A',

Govt. Dehli inter College, Karachi

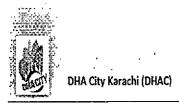
1993

Secondary School Certificate, Grade 'A-1',

Progressive Children's Academy Sec School, Karachi

Certifications & Affiliations

- Profession Engineer Reg No. ELECT/18621
 Pakistan Engineering Council, Islamabad Pakistan
- Certified Contract Management Professional NED University of Engy & Tech (Batch 8 - 2021)
- Governor Sind Program for Gen AI, Web 3.0 & Metaverse (Batch-1) commenced from Feb 2024.



CEPCO, Jeddah, Kingdom of Saudi Arabia Site Manager, EHV Cable Projects

March 2016 to November 2017

Initial Survey, Finalizing Approved Drawing, Crew Handling, Execution of Approved Site Work, and Jointing of 380 KV Power Cables, Acquiring Permissions from different Departments and Testing of DTS, Fiber Optic & Power Cables 2500 mm2.

K-Electric, Karachi, Pakistan

Manager Bulk Business Department & Distribution Projects

September 2004 to February 2016

Providing Facilitation to Corporate Customers (above 04 Megawatts), Optimization of Substations by coordinating with Substation & Operation Departments, Proper Documentations, Initiation, Planning Execution and Completion of different distribution projects, implementation of HSEQ policies and parameters to site execution activities.

Electrix Traders, Karachi, Pakistan

Site Engineer, Electrical Distribution Projects

September 2003 to September 2004

Reviewing Tender Documents, Preparing BOQs, Site Execution, Team Management, Liaison with other Government Departments for acquiring Right of Ways.

PROFESSIONAL TRAININGS

Attended "Certified Contract Management Professional" Certification Course facilitated by NED University of Engineering and Technology Oct 2021 to Dec 2021 (03 Months Course)

Attended "Wind Energy" Course facilitated by, Technical University of Denmark (five Weeks Session), and Completed in May, 2020 (Online). Grade "84.7%".

Attended "Six Sigma Green Belt Level" facilitated by NED University of Engineering & Technology, Karachi (four Days Session), Intended to appear in Six Sigma Green Belt Certification Exam in Coming Months, 2024.

Attended "PMP Exam Preparation aligned with PMI Standards" facilitated by Wayne Management Institute, Karachi (four Days/35 Credit Hours Session.

Attended "Managerial Skills for Budding Managers" Karachi, faculitated by NAVITUS Pakistan for KESC Ltd. (Two Days Session).

MANAGEMENT SKILLS

- · Project Management
- Excellent Business Communication
- Organizational Skills
- · Time Management
- Effective Leadership Ability



COMPUTER & SOFTWARE SKILLS

- Minitab
- Primavera Oracle P6
- MS Project
- · MS Office (Word, Excel, PowerPoint)
- AutoCAD 2017

TECHNICAL SKILLS

- Critical Thinking & Analytical Skills
- Understanding Creativity of Project
- Engineering Drawings & Technical Submittals
- Quality Assurance & Quality Control
- Bill of Quantities
- Work Inspection, Supervision & Snagging

LANGUAGE SKILLS

- English
- Urdu
- · Sindhi
- · Arabic

MEMBERSHIPS

- Professional Engineer of Pakistan Engineering Council Registration No. Elect/19520.
- Member of Saudi Council of Engineering Registration No. 290077

PERSONAL INFORMATION

Date of Birth:

25th December, 1979

Religion:

Islam Married

Marital Status:

AD0206734

Passport No: Driving License:

KSA Driving License

(Expired in April 2021)

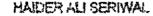
REFERENCES

- Engr. Bassam Kabbara, Project Manager AL-WAHA 380 KV UG Cable Project, CEPCO, KSA. Contact: +966 503696082
- 2. Engr. Nagash Arif, Sales Engineer, CEPCO, KSA Contact: +966 500342804
- 3. Engr. Faisal Saleh Memon, Executive Engineer DHA, Karachi, Pakistan Contact: +92 333 3212578

Complain Vale

Horter Di Samuel

PERSONAL INFORMATION





Q MCQ Bultimy OHA, City Karach, Sinoh, Palestan,

D +92 833 3525270

a enalmidedificancium

[2] http://www.linkedin.com/m/aidecab@1026Ca1

Serc Multe: 10case of brain, 20-00-1987 | Notionalist: Parcition | N.1 C #44200-68877336-1

Paramet No. YD1792363 1 PGC # Electro/14258/ Pvilipor Edizin

Dedicated and results-driven Engineer with 8 years of exemplary experience or the dynamic field of solar energy, specializing in sustanable solutions within the prestigious DHA City, Proven track record of conneptualizing, implementing, and optimizing solar projects that harness renearable energy sources to meet environmental goals while maintaining cost-efficiency Seeking to leverage my expertise a solar originacting and protect management to combinate to immediate solar initiatives, advance sustainability goals, and enhance the energy landscape in DHA City and beyond.

WORK EXPERIENCE

27/01/2018 - 18 Date

AXEN (Electrical & Renewable Energy)

OHA City Karachi, Pukistani.



Bright Horizon of Solar Energy

DHA City Karachi, a forward-thicking urban development project, is not just straping the future of living but also embracing sustainable energy solutions. At the heart of this commitment lies the harnessing of solar power—a clean and renervable energy source abundant in the vibrara city of Karachi. With a vision focused on a greeney, more sustainable todorrow, DHA City Karachi st literalizability its path to progress with the power of the sun.

Business: Amy Projects, Website: dhaks ractuord, Er rait cha@dhakarachi.org

Head office: 2-8, East Steel, Phase-I, DHA, Karachi-76500 Pakistan

DHA Cây Kerachi (DCK)

Electrical and Solar Project Works

Scope of Project:

DHA City Karachi (DCK) spread over an area of 20,000 acres of bod is exceditiously being developed as a planned. Sustainable, Green and Sman City of Pakistan. The project involves in the execution of Solar Electric Power Generation and Distribution Networks for the very first Strom City in Pakistan. This is the first sustainable city, in which Renewable Energy (Solar & Wind) is one of the essential sources of Power Generation, 30% of the total Power Generation is consist of Solar & Wind based peneration, while test of the 70% power generation is conventional electric power. I MW Solar Tree like structures will be built that will efficiently utilize the parking for space for a dual purpose (E., providing shade for parked case and also to generate energy

Item # 11

Conscion Vibre

Haider All Servel

PROJECT EXPERIENCE



Protects:

- 1.124 MW Sciar Energy Project Solar Park and Roof top systems at DHA City Karachi.
- 133kw island sofar system with Battety management system DHA Oesis Karachi.
- 104 kw Soter system for LFG water tack at Health Care District DHA City Karachi.
- 230 kw On Grid solar system at Water Channel Sector 3 DHA City Karachi.
- 750 kWh Battery Management system for 1 SAW/ ON-Gnd Solar system at Campaže.
- 1.5MW on-god solar PV system in combination with diseast generators, first save controller and 750kWh battary bactup in order to implement micro-god facility for DCK campsite.
- 6MW On-God 8. Hybrid solar PV system at various rections of residential, commercial and utility buildings. (The capacity of each system is varied from EMV to 100KW)
- Small wind power systems 30 kilowatts
- LV & MV electrical power distribution network.
- 630 Street Light Poles 120 waits General Electric LEO Light East & West Bookward OCK
- Integrated LED Street Lights 50 watts to 100 watts.
- 200 Conventional LED Sphts at DCK Ist & Highway Interchange.

Project Salient restures:

- On-Grid Solar Povier System.
- Hybrid/Oti-Grid Solar Power.
- Energy Storage.
- Power Supply For lot Works.
- Solar & Conventional Street Lighting
- Solar Water Pump.
- Solar Water Heating Geysers.
- Small Wind Power Systems.
- Ly & My Electrical Power Distribution Network.

Responsibilities:

- Site Supervision & Inspection.
- Verify the conductor sizes for those supplying multiple units
- . Siske sure circuit breakers and the correct size current rating for their circuit
- Check for adequate lighting in the artis.
- Inspect cables installed in contact with terminal translation
- Cables assembles are suitable for the residential condition.
- Write-down overall notes regarding inspection.
- Operation & Mauntenance of Installed systems
- Site Supervision & Inspection of Electrical / Sobr works.
- Leading Operation & Maintenance team for 1.5kMV on-grid system.
- Supervised and leading OSM team for 30MW wind buttones with battery backup.
- LV power network execution in various buildings.
- Leading Operator & Maintenance team for 480kW on-grid system
- Punchāst for final billing of complete project vida at related data

Aege 1 : 5

Currodam Vžve

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30-04/2016-11/12/2018

Paret Engraph (Charles & Restult In Energy)

GLINE DEA GOY KNOCKY (DCA)

Scienach Paidoten

Solarisch Patistan is a pioniering organization in the forefront of Patistan's renewable energy tendicage. With a commitment to hamessing the power at the sun, Solarisch is dedicated to provising outring-indige solar energy solutions for residential, commercial, and industrial dente sources the norw. Through innovation, sustainabley and a retendess purpost of close energy Splanech Patistics is leading the charge swell a brighten and more sustainable energy future in the region.

Hand offer, Bolar Tech House, Pine Avenue, Valence Main Equievard, Eshare

Waterla colorecto com pld

Ctmbct 0*23-0025063

Key Responsibilities & Expense

- Some parent ensuration and abgreniers
- DC and AC electrical system design.
- inverter selection and estallation
- Connection to the grid or off-grid systems
- Sozar ampy performance analysis
- filicatoring and troubleanousing golar syntams
- Compliance with safety romaineds
- Project cost estymation
- Quality control and inspections
- Environmental impact accessments
- Renewable energy project planarity
- Some technology research and exclusion
- ritagation of energy storage solutions
- Cottaborating with cross-sunctional teams
- Solar energy project management

04/02/2014 - 01/05/2015

ollection:

M/S Alcrem Cotton Groving Prensing Factory & C2 I/O

Key Resconsbilles & Expense

- Strategie glanning for process optimization.
- Yearn leadership and management.
- Production evenight and target achievement.
- Quality content and complance.
- Entertainment and proceeding and equipment up invo-
- Budget management and resource africator
- Surety protocol emplementation.
- Cordinuous process operatation.
- Environmental suscensibility incolores.
- Ellicitati circitanivs prima and anutilistic of the
- Reporting on performance and activities
- Vendor and supplier coordination
- Staff training and development.
- Project management for expansions and expresions
- Inverdepartmental communication.
- Resource allocation and efficient discation.

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Page - 15

. N. .



Curriculum Vitae Hoxdor Ah Somwal **EDUCATION AND TRANSHO** 2005 - 2010 Bachalor of Engineering in Dischoolica Engineering Dawood College of Engineering & Pechnology, Karachi, Pavistan. Samkonducké Irizonaz Dezemband Chokes, Power System & Network Analysis, Olgázi Logic Design, Electrical Nativers Analysis, Electronic Davides and Circles, Machine Design 8 Equipment Towning, Power & Industrial Electronics, Control Systems, AC/OC Machines & Delves, Project Managersent. 2004 - 2006 H.S.S.C-19g/er Secondary School Certificate (Pre-Engineering) Cade: College Strigtar Pareston Physics, Chargory, Manis, English 2001 - 2003 5.S.C - Secondary School Cartificate (Science) Cade: College Sanchar Passatan Physics, Charactry, Matti's, English, Computer Science. TECHNICAL SKILLS MS Office For Making Paparts, Presentation, Formulae Shaets, Exc. AutoCAD: Creating Technical Drawings and Layouts. Distur: For the Designing of Lightning Systems for Floads and Euflding PERSONAL SKILLS Communication sides Excellent communication and interpersonal sides, facilitating effective collaboration with clants, stakeholders, and requisitory bodies. Skills galhed from extensive experience in working with risibinal armad, government and private sector offents; able to express

Starge a r

. . .

Curricum Vane

Houser Alt Service

Organisational / marragerial skills

- Proven wack record of achieving energy savings and reducing carbon footprints through the adoption of solar energy solutions to DHA City, contributing to its sustainability objectives.
- Committed to ongoing professional development and staying updated on the tatest advancements in solar technology and sustainable energy practices.
- Strong knowledge of industry standards, regulations, and best practices related to solar energy, ensuring compliance and safety in all projects...
- 4. Demonstrated ability to lead cross-bocslonal teams, manage budgets, and oversee project timelines, resulting in the successful completion of numerous solar projects on time and within budget.

Job-related sions

Over 8 years of frands-on experience in solar energy engineering, encompassing the design, installation, and maintenance of solar power systems in residential, commercial, and industrial settings.

Adapt at conducting site assessments, feasibility studies, and energy audits to determine the optimal solar solutions for specific projects, ensuring maximum energy opportunity.

Other sirits

I love travelling and Photography I would love to travel anywhere in Pakistan and rest of the world.

- ADDITIONAL INFORMATION

Pakistan Engineering Council Certified KACO certified Self-Maintainer of KACO Germany Inverters

Certifications

Note: Reference Documents / Certificeles / Experience Letters can be provided on Request

Prop. 815

CURRICULUM VITAE

Engr. Saqib

R-43 block-F Gulshan-e-Jamal main

Rashid Minhas Road. Mob: +92-333-2533002

Email: engrsaqib06@hotmail.com



Objective: To acquire career oriented employment in a reputable organization with an aim to be an asset for the company by utilizing my potentials to the maximum and achieve ultimate career goals.

EXPERIENCE 13 YEARS

KEY QUALIFICATION:

Qualified and professional BE Engineer with a multipurpose/designations and multinational professional experience of more than 04 yrs. I have practically performed all the concerned jobs and been deeply involved in their commencement weather at site or in office with hard work, concentration and dedication.

Employer

DHA Karachi .

Tenure

August 2015 - Present

A/XEN (Electrical)

Designation

The largest and leading residential estate in the country. Providing a world class environment and well guarded community with amentias of quality life.

RESPONSIBILITY:

- Supervising the execution of electrical infra structure and building's electrical systems in different sectors of DHA City. Provide co-ordination between consultants and contractor for smooth completion of work.
- Factory inspection for transformers, RMUs and feeder Pillar.
- Installation of step-up transformers for provision of backup supply system through generator for residential of DHA City.
- > Operation and maintenance of existing electrical system.
- Supervising buildings electrical system i.e HVAC, elevators, fire alarm system, distribution boards etc.
- Preparing BOQ and execution of electrical works directly assigned by higher authorities.

Employer

M/s. Osmani & Company (Pvt.) Ltd.

Tenure

January 2013 - August 2015

Designation

Design Engineer (Electrical)

Major Projects

Project

Development of DHA City (11,640 Acres)

Client

Defence housing Authority

Location

Karachi

Project

Infrastructure Development of DHA Phase-8

Client

Defence housing Authority

Location

Karachi



DESCRIPTION OF DUTIES / ACTIVITIES PERFORMED:

Electrical Infrastructure

- Situation Analysis of Electric Power and communication infrastructure.
- Detailed analysis of existing system, demand and supply situation of electric power.
- Assist Team Leader in preparation of immediate action plan for development works.
- Develop the short term & long term development plans regarding utility services considering economical & technical viabilities.
- Report of New SITE
- Load Assessment Criteria
- Load Calculation & Distribution
- ➤ Layout & Distribution of MV / LV Network
- > MV / LV Cable sizing & Voltage drop
- Single Line Diagram
- > Specifications for EV/MV Switchgear/MCC
- ➤ BOOs & Engineer's Estimates

Buildings

- > Illumination calculation on DIALUX
- > Lighting layout & circuiting
- Small Power layout & circulting
- > Selection of material for lighting works
- Single line diagram for distribution board
- Extra low voltage network (Firealarm, Sound system, CCTV, IT networking, etc.)
- > Substation layout with Earthing
- Selection of equipments (MV Panel, Transformers, LV Panels)
- Generator sets with accessories as per load requirement
- 800s & Engineer's Estimates

Employer : Sapphire Textile Mills Ltd
Tenure : From March 2011 – Jan 2013

Designation : Trainee Engineer

Responsibilities:

- Manage and look after operation and maintenance of power house
- Troubleshooting in the control system of Gensets (Cater Pillar, Waukesha and Ien Bacher) and electric LT and HT distribution systems.
- Working on energy optimization techniques for better and efficient use of energy and cost optimization in fuel consumption.
- > Prepare cable and bus bars layout plan for the installation of new machinery / Gensets.

EDUCATIONAL QUALIFICATION:

- P.G.D, Electrical Power Engineering, Mehran University of Engineering and Technology Jamshoro, 2012
- > B.E in Electrical Engineering, Mehran University of Engineering and Technology Jamshoro, 2010.



Computer Proficiency :

MS Office, MS-Windows, Auto Cad

Languages Known

English, Unfu and Sindhi

Other Details :

Father Name : Ahdul fl.iztaque
Date of Birth : 09-April-1987
Nationality : Pakistani
Sex : Male
Marital Status : Single

Marital Status
CNIC No.

44101-4741657-7

References

Najam-ul-Hassan Burney

Job Title: Senior General Manager

Company Name: Osmani & Company (Pvs.) Ltd.

Phone Number: 0300-2843298

Mr. Afsar Hussain

Job Title: Manager

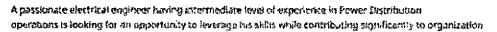
Company Name: Sapphire Textile Mills (Pvt.) Ltd.

Phone Number: 0321-3009205



SYED SAAD AZIM

ELECTRICAL ENGINEER





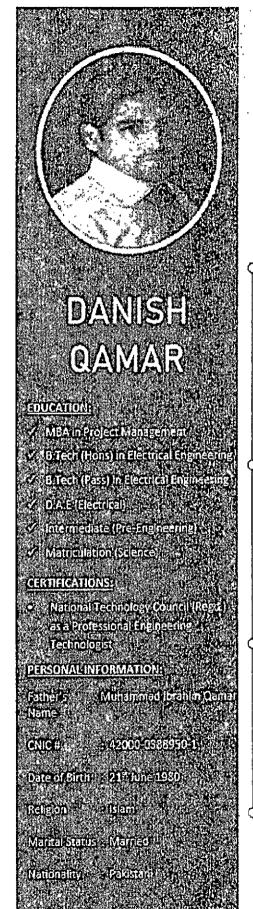
sazim364@gmail.com		§ +923362009 487	V Karachi,Pakistan	
WORK EX	(PERIENCE		PERSONAL ATTRIBUTES	
May 2020 -	Assistant Engineer (E	Hectrical)	Leadership	
Present	Pakistan Defence Officers	Housing Authority - Karachi		
	 Responsible for the mar power distribution netwo 	agement and supervision of k which involves:	Initiative	
	Method as per authorized		Team Working	
		PIG (SAT) of Equipment to ensure tion under various conditions.	Communication	
٧٠	using SANVIA HG5514 ins	n Resistance Test on power cables ulation resistance testet: power cables using LISUN 11KV-	Presentation	
	15KV high voltage surge (SKILLS	
	Mounted Unit transforme	7.	AutoCad	* * * * *
	> Responsible for managit provision of discinical con-	ng a residential sector which includes nectivity to domestic and	C/C++	0005
	commercial units includin	g external maintenance	MS Office	0450
	> Maintaining record of w visits to manufacturing fa	ork execution and quality inspection cifities.	MS Project	🗢 ጉ . የተ
4 u.s. 48		******	Project	P49 5 1
Aug-19 - Dac-19	INTERN (Site Operation of Falling Technologies (FVI)	-	Management	
	> Assisted Project Manage	er in planning and installution of ar Systems (residential) having	LANGUAGES	
	Mono-cryscalline Photo Vo Phase inverted	italc Modules with 10 KW Three	English	0053
	>Trained with Dask, conce and installation.	pts of Sciar System planning testing	Urdu .	9000
EDUCATI	ON			<i>y</i> •
Oct 2023 -	Masters of Engineeri	ng (Electrical Power Systems)		1
Ongoing	-	iring & Technology - Karachi		
		iters program with current courses of and Advance Power Distribution		

Aug 2015 -

Dec 2019

Bachelor of Science (Electrical Engineering)

National University Of Computer & Emerging Sciences - Karachi Graduated with a four-year bachelors degree in Power stream



CONTACT DETAILS

+92 333 3189510

danishqamar80.dq@gmail.com

A-60, Indus Mehran Society, Model Town, Karachi – Pakistan.

OBJECTIVE:

A career in reputed organization that provides me best opportunities to gain quality work experience to develop managerial a technical skills in a competitive and professional environment for a good career.

EMPLOYMENT HISTORY:

Suli Divisional Officer

Defense Housing Authority
2007 - Present

Grid Station:

Testing, commissioning of 2 x Gnd Station with consultant M/s Nespak, Contractors M/s Siemens (Pvt.) and Id/s GE Power

Performed / conducting inspection, testing and commissioning of 132 KVA Grid Stations

- Electro Mechanical, Micro Processor and numerical relays.
- FAT and SAT of 40 MVA Transformer.
- FAT and SAT of 500 KVA Stabon Transformer.
- SAT of DTS Panel.
- FAT and SAT of MV Panel.
- SAT of SF, Circuit Breaker, CT, PT, Isolator, Surge Arrester, Busbar and Line Pay Panels, Bus Couplers.
- Testing and Commissioning of Distance Relay, OC over current and earth Fault 132 KV line Panel Relay Transformer Control Panel Relay.

Transmission and Distribution MV and LV Networks:

- Laying of 132 KV, 800mm underground Feeder cables.
- Laying of 11 KV Feeder, 400mm and 900mm Feeder cables.
- Laying of 240mm, 120mm, 70mm and control cables
- Supervision of excavation, taying, jointing and termination.

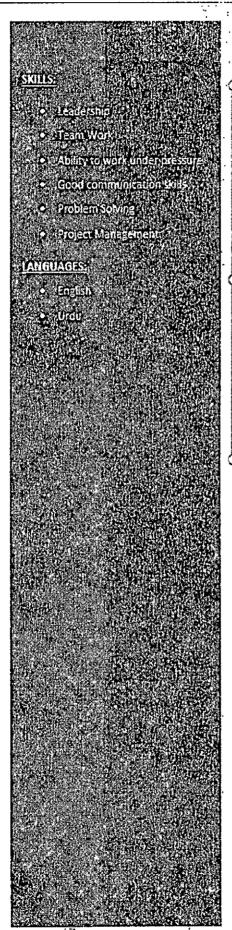
<u>Street Light Projects - Planning and Implementation of Conventional, Integrated and Solar Lights</u>

- Street lighting for Roadway residential and Walkway ...
- Review and field inspection of new and old existing Street light system
- Prepare Correspondences, Board Reports, Cost Estimation,
 Specification.
- Conduct Investigation including Night time Field checking Reports.
- Street light design system for conventional light control by SLCP.

Solar Tube well Planning and Installation

- Installation testing and commissioning and Solar Tube Wells.
- Checking and inspection of Solar Panel, Motor, Pump, Electrical Wring DBs and DC Panels.





Solar Energy projects, Solar Park and Rouf top system and DHA City Karachi.

- 1.124 MW Solar Energy Project Solar Park and Roof top systems at DHA City Karachi.
- 133kw Island solar system with Battery management system DHA
 Oasis Karachi 104 kw Solar system for UG water tank at Health Care
 District DHA City Karachi
- 230 kw On Grid solar system at Water Channel Sector 3 DHA City Karachi
- 750 kwh Battery Management system for 1.5MW ON-Grid Solar system at Camps te
- 1.5MW on-grip solar PV system in combination with diesel generators, fuel save controller and 750kWh battery backup in order to implement micro-grip facility for DCK campsite.
- SMW On-Grid & Hybrid solar PV system at various rooftops of residential, commercial and utility buildings. (The capacity of each system is varied from SkW to 100kW), Small wind power systems 30 kilowatts.
- IV & MV electrical power distribution network.
- 630 Street Light Poles 120 watts General Electric LED Light East & West Boulevard DCK Integrated LED Street Lights 50 watts to 100 watts.
- 200 Conventional LED lights at DCK M-9 Highway Interchange.

Project Salient features:

- · On-Grid Solar Power System.
- Hyorid/Off-Grid Solar Power.
- * Energy Storage.
- Power Supply For Ict Works
- Solar & Conventional Street Lighting
- Solar Water Pump
- Solar Water Hearing Geysers.
- Small Wind Power Systems.
- . Ly & Miv Electrical Power Distribution Network.

Assistant Engineer

K-Electric

2004 - 2007

O/H and U/G Networks:

- Implementation of HV / LV Network Schemes including installation of Poles, conductors and their accessories.
- Installation of PMTs with complete structure.
- Installation of VCB Panels.
- Supervise / monitoring the cable termination, jointing and laying of HT / LV both underground and overhead.

Assistant Engineer

Electrix Trader

- Controlling, Tasking, Reporting and Maintain daily progress report of Projects.
- Purchasing Controlling of Tools, Equipment and accessories.
- Implementation of LV and HV Network Schemes including installation of Poles, PMTs, VCB Panels, Electrical Wiring DBs, conductors and their accessories.
- Laying of underground feeders with complete terminations and iointing.
- Design and develop the building wiring projects.
- Monitoring of projects reports progress, coordinating activities regarding the installation.
- Monitoring a treat workable relationship among a web people (Client, Consultant, Supplier and Authority / Regular cody).

NISAR AHMED

ADDRESS: A-1109 Gulthan Hadid Phase-I Bin Qasim Town, P.O Steel Town Malir Karachi. 63132194088 - 03232804579 Email: near abmedic Septitions



Objectiva

To work with a progressive organization that offer a competitive zad Challenging environment and fully Utilize my professional and academic Skills to pursue a challenging and rewarding career, which mutually beneficial.

Experience;

- Sub Divisional Officer Elect, at DHA city Karachi M9 project from Oct 2018 to date.
 DHA city Kutchi project known first ever green contamable cary of Pakisma union Pak Army First corps
- Assistant Engineer at R-ELECTRIC from July 2015 October 2018
- Associate Engineer at AMRELI STEELS Ltd from Pabrumy 2013 to July 2015.
- Supervisor Electrical in SEPCO project Jan 2011 to February 2013

Scallenic Occileration

B-Tech Honor Electronics	CGPA	DIHE Kunchi (2018) result IP
B-Tech Pari Electronics	S CGPA	DINE Karachi (2014)
D A.E Electronics	l' die	\$B TE Kouchi (2011)
Metric Science	8	B.S.E. Karach (2005)

Certification & Skills:

- Short course four month electrical technicians from Pakland vocational training center Karachi (2012)
- Short course four month electrical technicians from SBBYDP Karachi (2011)
- One year diploma in computer sciences skall development council Faisalabad (2012)



Distribution & Supply Licence - DHA DESCO

DHA City Karachi (DHAC)

Remonstillitte

- Deal Distribution, planning, complaints, project scries and electricity network team, supervise
 upon maintenance staff, look forward KE enotoness problems
- · Testing & communicating of PAIU:58 MV LV cables, new project tendening.
- All concerned treak with fast safety unplementation (exfert a tap priority)
- Trafo / VCB OCB rwinches inspection & notalizona.
- Inspection of underground EHT, HT, LT transmission cables, reporting through computer skills including Microsoft Office &, Official Emails, Tels communication
- . Supervision, checking of electrical work at tide
- Supervision of concerned areas, operation, maintenance and installations of instrumentations
 electrical accessories, switchgraus, motors, controllers
- Maintenance of the plant as well as planned resplanned about dopses
- Term player, so intron provider and a term leader, strategy and planning of his section, with strong
 maintenance and troubleshooting background in Switch-garre, Power & Distribution Transformers,
 MV / LV Motors, Starters, Protection Relays, VFDs, UPS, Hazardons Area equipment
- · Generation distributions plans and power machinery maintenance
- · familiar with exfery, Root Cause Analysis, Assets Life Expectarry and similar Reliability concepts
- . Good knowledge of grad station operation 20xxw load. (Grid executive)
- · Substation, LT, HT, LV Distribution complaint solution planning
- . Sizg processing plant, induction function etc.
- Electromechanical instruments and good knowledge about hydranics system.
- Complete operation and electrical, instruments maintenance of <u>Verrani</u> (Italian) plant at Amreli steel.
- · Shift supervisor in plant
- · Maintain all record of field maintenance as per soutine
- · Prepare the estimated cost & budget on mantenance activities.
- Responsible for carryout breakdown and shutdown maintenance.
- Provide (technical) guidance to the team membas for execution of mammanance activity
- Set-up proventive maintenan co plans (planning & schoduling).
- Provided solutions, system faults and used soot-cause-failure techniques, contentre actions, medifications and performed replacements and/orner metallation.
- · Rectify major faults through UGM, SSM, GSM, Operation & CM team with K.E.
- Inspection of Elect equt, LV MV cables, Trafo PAIUS S RMUFATs,.
- . Official Impection Experience detail
 - o 12 Trafos inspected (FAT) all protocols at PEL Factory Labore
 - o MVLV cables inspected (FAT) at Fau Cables Labore
 - o MVLV cables inspected (FAT)

Personal Information:

✓ Father's Name

Muhammad Rahis

* Fallet Fire

15/12/1989

✓ Date of Birth

42501-6905809-7

✓ CNIC # ✓ Domicile/PRC

Karacki (Sindh)

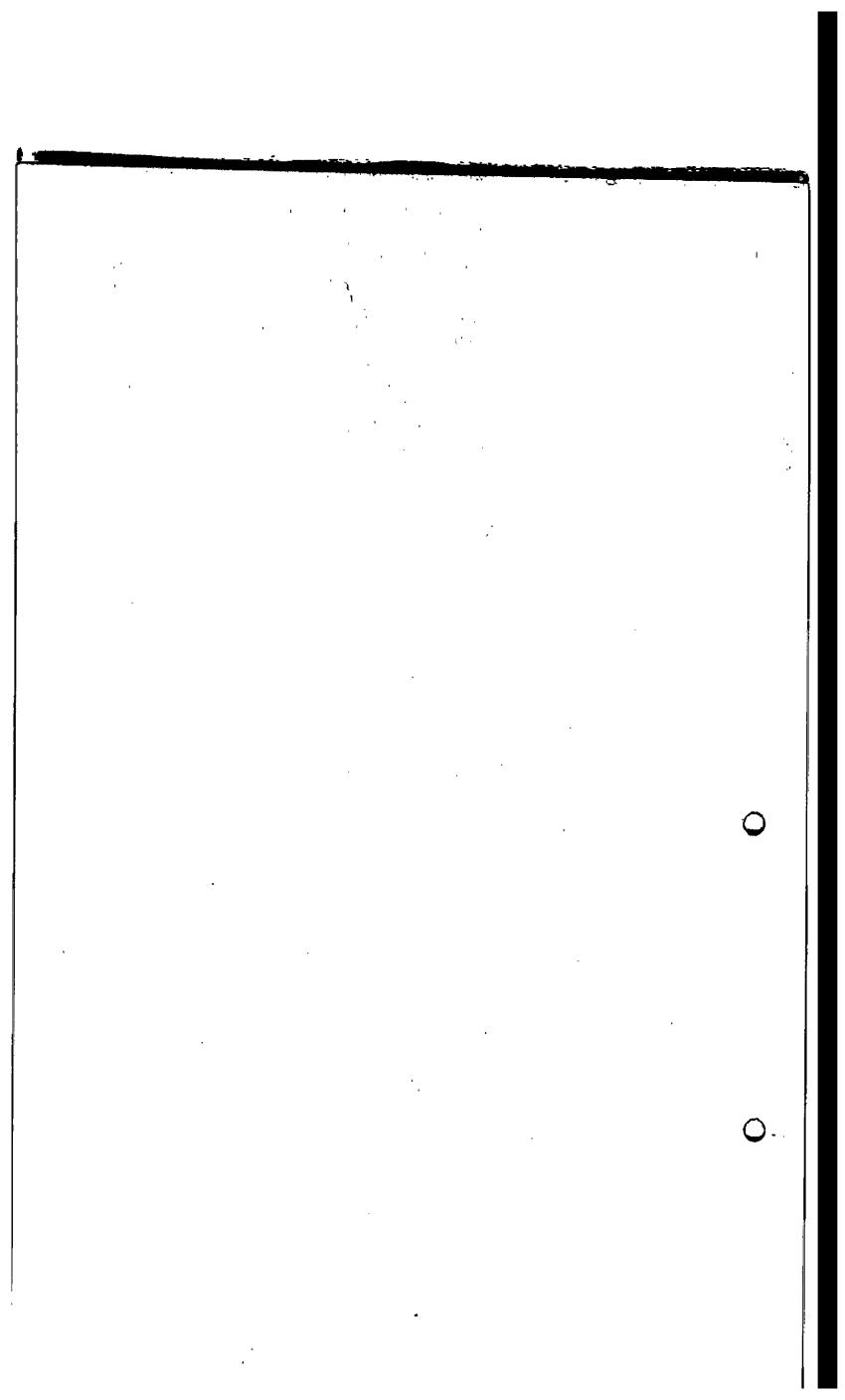
✓ Religion

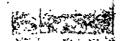
lalam.

Nationality

Pakistzni

✓ Marital status ✓ Language Bachelor Urdu, Sindhi, English







NAME

Syed Shaukat Hussain

ADDRESS

N-4147, Block I, Metroville-III, Gulshan-e-Iqbal Karachi

TELEPHONE

021-34640061

MOBILE

0333-3475-166

EMAIL ADD.

shaukatiit@gmail.com

SPECIAL SKILLS

Proven ability to work with minimum direction.

- Self-motivated, Adaptable, with the ability to maintain performance and meet the challenges of changing climate.
- · Excellent customer services and people management skills.
- Team player with the ability to encourage confidence building and self motivation of team members.
- Demonstrated ability to communicate with and relate to people at all levels.

ATTITUDE AND ATTRIBUTES

- · Certificate and innovative approach to all obligations.
- Ability to work under pressure in a demanding situation with professionalism.
- Ensure all organizational objectives and Goals are achieved.
- High work ethics and professional approach to all obligations and commitment.

ORGANIZATIONAL AND ADMINISTRATIVE SKILLS

- · Able to understand and interpret guidelines and policies.
- Able to operate autonomously and as part of a team.
- Ability to assess situations and implement appropriate measures.
- Able to negotiate and listen to the needs of others.

TECHNICAL KNOWLEDGE

ELEVATORS

 Comprehensive knowledge of electrical and mechanical system of elevators specialization in Gold star (Korea) and Thyson(Germany).

GENERATORS

 Adequate knowledge of Diesel and Petrol Generators (All Type) specially 300,400 & 500 KVA Generators.

MISC

 Sufficient knowledge in Fabrication, welding (arc & Gas). Pumps (single Stage, double stage.)

EDUCATION

- Higher Diploma in Mechanical Engineering (HDME) from Dhaka Bangladesh at ICTVTR with automotive technology. (On GOVT of Pakistan scholarship.) Year 1992.
- · HSSC from Aisha Bawam College" B" in years 1988.
- SSC from Little Angle's Secondary School In years 1985.

Employment History

- QUICK Auto workshop as "Asst Supervisor" Dealing in repair and Maintenance of Diesel and Petrol Vehicles from December 1992 to July 1993.
- POWER LINE COMPANY as "Mechanical Technicism" for Supervision of Diesel Generators up to 500 KVA from Aug 1993 to Aug 1994.
- ORIENTAL GENERAL ENGINERING COMPANY as 'Mechanical Supervisor "for Generator, Welding Plants and Pumps etc. From Sep 1994 to Feb 1996.
- BUSINESS communications as" Service Engineer" on installation and maintenance of local and imported Elevators from Aug 1998 to June 2009.
- DHA Services as a" Senior Technical Supervisor" at Creek Vistas Appts providing all technical supports from June 2009 to July 2020.
- DHAC as CHIEF MECH at E & M Dte. Providing technical support regarding elevators and HVAC systems in buildings from Aug 2020 to till date

MOHAMMAD SALEEM

u +92 333-7841435

☑ saleemdhakhi@gmail.com

🗣 B-32 phase 2 - Gulshan-e-HadeeSd, Karachi Pakistan



OBJECTIVE

Seeking a challenging position in a progressive organization offering opportunities for professional growth and development that may prove to be very effective for corporate wealth as well.

: ACADEMIC QUALIFICATIONS. 🗎

B.Tech Pass (Electrical)

2014

New Port Institute of Technology Karachi.

CGPA: 2.98

D.A.E (Electrical)

2009

Swedish College of Technology Karachi

Division: First

SAFETY TRAINING: Indus Motor Company Ltd, Karachi, --

Working Experience: 06 years 10 months

DESIGNATION	EMPLOYER NAME	FROM	70
Technical Supervisor	D.H.A Karachi	17 June 2013	Still To Date
(Electrical)			<u>.</u>
Electrician	Indus Motor Company	1 Feb 2011	30 May 2013

> RESPONSIBILITIES

> SOLAR ENERGY SYSTEM

Operating of 01 Mega watt Solar energy system (Renewable Energy)

> WIRING

- Site Supervision
- Site Inspection
- Monitoring of Projects as per Specification / Drawing
- Inspection of Conduting, Wising, Lighting Circuits, Power Circuits, Distribution
 Boards, Three Phase, Distribution and Underground Cables.
- Inspection of Accessories (Inventory) as per BOQ and Approvals.

> 3 PHASE GENERATORS

- o Operation of Generators
- a Maintenance and Record of Generators
- Fuel record of Generators
- Wiring LV panel to generators
- Wiring Main DB to LV panels
- Manage Generator Operators and Electricians Duties



Computer skills

- > Ms Office
- > Internet Surfing

PERSONAL DATA

Father's Name 1

Gulshan Soomro

Date of Birth

02-10-1985

CNIC

42501-2414006-3

Religion

Islam

Marital Status

Married

LANGUAGE CAPABILITY

English

Spoken-Fluent; Written-Fluent; reading-Fluent

Urdu

Spoken-Flyenti Written-Fluenti reading-Fluent

REFERENCE

Reference will be furnished on request.

Page: 2 of 2





Mubashir Ali Shah

+92 300-2323615

mubashir.1ahmed@gmail.com

House No 3, Street No 27, Area "B" Qayyumabad Korangi Road Karachi Pakistan

OnleCrive

Seeking a challenging position in a progressive organization offering opportunities for professional growth and development that may prove to be very effective for corporate wealth as well.

ACADEMIC QUALIFICATIONS

B.Tech Pass (Electrical)

2012

New Port Institute of Technology Karachi.

CGPA: 3.02

D.A.E (Electrical)

2007

YMCA Poly Technic Institute Karachi

Division: First

Working Experience: 18 years months

Ì	DESIGNATION	EMPLOYER NAME	FROM	70
Ì	Electrician	D.H.A Katachi	14 Dec 2006	ti∄ To Date

> RESPONSIBILITIES

> SOLAR ENERGY SYSTEM

Operating of 01 Mega watt Solar energy system (Renewable Energy)

> Wiring

- o Site Supervision
- Site Inspection
- Monitoring of Projects as per Specification / Drawing
- Inspection of Conduting, Wiring, Lighting Circuits, Power Circuits, Distribution
 Boards, Three Phase, Distribution and Underground Cables.
- Inspection of Accessories (Inventory) as per BOQ and Approvals.

> 3 PHASE GENERATORS

- Wiring LV panel to generators
- Wiring Main DB to LV panels
- Manage Generator Operators and Electricians Duties

OSMANI RIAA Barker Gillete EY Ford Rhodes Page - 30

Item # 11



COMPUTER SKILLS

- > Ms Office
- > Internet Surfing

· PERSONAL DATA

Father's Name :

Syed Muslim Shah

Date of Birth :

09-08-1985

CNIC

42501-2414006-3

Religion

Islan

Marital Status :

Married

LANGUAGE CAPABILITY

English

Spoken-Fluent: Written-Fluent: reading-Fluent

Urdu

Spoken-Fluent: Written-Fluent: reading-fluent

REFERENCE

Reference will be furnished on request.

Page: 2 of 2



Shakaib Najam

Electrical & Electronic Engineer

An organized individual with a substantial training and knowledge in the field of Electrical & Electronic Engineering evident with the courses thave taken and the degree that I have achieved with good grades overall, Looking for a position in a future oriented company with a professional environment and an alm for growth and development both personally and professionally.

shakaibnejam@gmeil.com

🗣 Bahria Town Karachi, 75340, Karachi Akistan

WORK EXPERIENCE

Application Engineer **BRITLITE ENGINEERING COMPANY**

Authorized Sola Electricator and Optimum Schubina Provides for complete range of industrial Electrical Products and Electrical Accessories

Achievements/Tasks

- Dealing in various Electrical & Electronic products and representing world renowned brands. For instance, Earthing Systems (Purse-UK, Lightning Protection Systems (LP)-Australia), Automatic Voltage Regulators (Ortea-Italy), UPS (APC-USA), Generators (ARKEN-Turkey), etc.
- Seeking new opportunities and joint ventures and enproaching potential organizations on Domestic as well as international level.
- Corresponding with reliable local and international dealers for acquiring products that best matches with client's specifications in extremely competitive rates thus coming up with cost-effective proposats for existing as well as potential
- Liaising with customers on regular interval to ensure timely closing of projects within agreed budget and maintaining contacts with them to ensure high levels of customer
- Managing projects from initiation, pre-production all the way to completion and providing hassle-free after sales support by forming Service-Level Agreement with clients.
- Carrying out inspections and troubleshooting of electrical/electronic products with a team of trained technicians at various sites for swift and effective resolution of issues to minimize the critical downtime faced by clients.

Estimation Engineer AHMED ELECTRICAL SERVICES

11/2016-03/2017

KOROCNE ASKISTAN

Major Electrical Contractor with specialty in industrial Electrification, Planning & Installation Services.

Achievements/Tasks

- Evaluating Deison Layout of project work scope.
- Conducting feasibility studies of various projects to estimate the time, material and labor costs.
- Preparing tenders & contracts of different scales, Le. Emaar Residential Towers, Navy Housing Scheme and Sindh Engro Coal Mining Company Ltd., etc.
- Multi-task effectively-prioritized independently and met daht deadlines

T +92-331-2310358

Sokedje.com/in/shekato-najom-08676207

EDUCATION

B.Engg. (Hons.) Electrical & Electronic Asia Pacific University of Technology and innovation, Malaysia and Staffordshire University, UK

2010 - 2015

Kadia Lompur, Mataysia

HSC Certificate from FBISE Board, Pakistan. Model Pakistan Academy Kuwait

2008 - 2010

Abrata, David

SSC Certificate from FBISE Board, Pakistan Model Pakistan Academy Kuwait

2006 - 2008

Ahmodi, Kowas

SKILLS



CERTIFICATES

Theory, Maintenance, Commissioning of Digital - Static Voltage Stabilizer, Power Factor Correction Systems by ORTEA, Italy, (2019)

GOETHE-ZERTIFIKAT A1 - START DEUTSCH 1 by GOETHE INSTITUT (2018)

Membership of Institution of Engineers, Pakistan (IEP) (2018 - Present)

Registered Engineer, Pakistan Engineering Council (PEC) (2017 - Present)

Electrical Design for Hi-Rise Buildings by Skill Development Council (SDC) - Pakistan (2016)

Electrical Power Distribution Systems & Planning (11kV/440V) by Skill Development Council (SDC) -Pakistan (2016)

Page 1 of 2



Possessing an extensive background encompassing 20 years, I am a highly accomplished Electrical Engineer and Project Manager with expertise in project planning, management, monitoring, controlling, and commissioning, predominantly within the Utility sector. Actively seeking a dynamic professional setting that esteems effective communication skills and capitalizes on my intrinsic technical acumen, my objective is to contribute substantively to a progressive organization aspiring to attain industry leadership in their respective disciplines.

CONTACT

☑ engr.naveedzaffar@gmail.com, ☑ naveed.z.memon@outlook.com, ↑ +92-333-2281236

A Karachi, Sindh, Pakistan

www.Linkedin.com/in/navecdzaffar/

EDUCATION

N.E.D University of Engineering & Technology, Karachi, Pakistan, 2023-2025
Master of Engineering Management Energy Management MEM GPA 3.7 (in progress)
N.E.D University of Engineering & Technology, Karachi, Pakistan, 2019
Post Graduate Certificate Course (Renewable Energy)
Mehran University of Engineering & Technology, Hyderabad, Pakistan, 2003
Bachelor of Engineering Electrical (Power)

PROFSSIONAL EXPERIENCE

Pakistan Defence Officers Housing Authority, Karachi, Pakistan Executive Engineer

May 2021 to till date

Supervision of site works as per Contract Agreements, Preparation of Contract Agreements, Witnessing FATs for electrical equipment, Preparation of Terms of References for Consultants for the projects, reviewing of final design submitted by consultants, Design Calculations review, ensuring execution is carried out according to standards and specifications.

ANK Engineering & Construction Company, Karachi, Pakistan Senior Electrical Engineer

February 2018 to May 2021

Supervision of MEP works (Incl. Fire Fighting Alarms, CCTV Installations, HVAC Systems etc.) of newly Constructed Buildings (Hospitals, Malls, Public Buildings), Ensuring smooth execution of Site Works with team of Engineers.



WORK EXPERIENCE

Assistant Engineer - Hyperstar Project Lucky One Mall

AHMED ELECTRICAL SERVICES

01/2016 - 11/2016

Koroski, Polistan

Micker Flacorked Contractor with specialty in Autocolor Electrification. Planeing & Installation Services.

Actions were the Tracks

- Performed detailed study of project drawings and reviewed BOQ Items accordingly.
- Highlighted the points that are discussed in the nicetings.
- Supervised a team of 6 technicians to create pathways for Installation of Power, Lighting, Fire Alarm, CCTV, Access Control & Public Address Systems in compliance with engineering work ethics and international standards and safety codes.
- Prepared as-built drawings & punch list against the actual work scope executed at project site.
- Verified the electrification works of 3 Sub-Contractors deployed on different sites of the project against mutually agreed scope of work for billing purpose.
- Active learner and effective communicator-practices good judgment and discretion while working closely with all type of clients
- Promoted to the designation of Estimation Engineer after worlding for only 10 months on the job.

CONTROL EASY TECHNOLOGY SDN. BHD

0//2013 - 10/2013 Lecting manufacturing company providing Vision and Control Automotion & Education Combot Probling Equipment

Advinuencess/Tooks

- Gained knowledge about general problem solving and troubleshooting of electronic products.
- Gained an insight into problem solving as well as, numerical and analytical skills
- Bufit collaborative rapport with associate Engineers to effectively accomplish the assigned tasks
- Successfully performed data gathering and image processing for the detection of defects in PCB flux using MATROX vision software.
- Commended for productively completing the thesis on detection of PCB flux defects.
- Worked on daily report writing

LANGUAGES

URDU

ENCLISH

CHINESE

Marine or Elizabel Profidence

Fish Professional Proficiency

CERMAN Elementary Profetoscy

Elementary Profitiency

ARABIC

Clamentary Profesorcy

REFERENCES

Will be furnished upon request

Pega Zof 2

ANNEX - C-8

PROFILE OF SUB-CONTRACTORS, IF ANY, ALONG WITH EXPRESSIONS OF INTEREST OF SUCH SUB-CONTRACTORS

Please see the document appended herein below.



Item No. 13

Profile of Sub-Contractors, If Any, Along With Expressions of Interest of Such Sub-Contractors

DHA is presently involved in Electrical Infrastructure Development in Phase VII-Extension, Phase VIII and DHA City, where all planning and design of Electrical network and tender documents are prepared and issued by M/s Osmani & Company Pvt (OCL).

Work is being performed through various pre-approved and well known National Contractors, like M/s Frontier Works Organization (FWO), M/s National Logistic Cell (NLC), M/s Badar Engineering Works (BEW), M/s Zaffar Enterprises (ZE), M/s Qaiser Electric, M/s PEL etc under the supervision of Consultant M/s Osmani & Company Pvt. Ltd.

ANNEX -- C-9

VERIFIABLE REFERENCES IN RESPECT OF THE EXPERIENCE OF THE APPLICANT AND ITS PROPOSED SUB-CONTRACTORS

The document containing the verifiable references is appended herein below.

Furthermore, please refer to the listed experience of DHA Karachi in its company profile appended as **Annex C-6**.

Item No. 14

Verifiable References in Respect of The Experience of The Applicant And its Proposed Sub-Contractors

The Defense Officers Housing Authority (DHA) is one of the most organized real estate managers and developers in Public Sector, operating in the metropolitan area of Karachi as well as other big cities of Pakistan like Islamabad, Lahore, Gujranwala, Multan, Quetta etc. It has expanded its expertise and acquired new land for development of state of the art project known as DHA City Karachi (DHAC) comprising of DAHC North, DHAC South and DHAC South Extension, located on Superhighway, which will have facilities comparable to developed countries, filling a large gap in development.

Presently *DHAC* is carrying out Electrical Infrastructure works in *DHAC South Sector 1, 3,* 14 and *Gateway District* with limited work in other sector(s) to extend electrical network through different certified national contractors, which include *M/s Frontier Works Organization* (FWO), *M/s National Logistic Cell (NLC)*, M/S Schneider, M/S Qaiser Electric, M/S M/S Zafar Enterprise (ZE), M/s PEL, M/s Badar Engineering Works (BEW), M/S Expert Contracting, and others. The said contractors have already started work on site under supervision of M/s Osmani & Company Pvt. Ltd. (OCL). M/s OCL have vast experience as leading Consultant in Integrated Planning, Engineering and Infrastructure Design and Development for various National and International Projects.

A number of reputed Contractors and vendors have shown zeal in electrical infrastructure works in DHAC.

V.

FINANCIAL AND TECHNICAL PROPOSAL

ANNEX-D

TECHNICAL AND FINANCIAL PROPOSALS FOR THE OPERATION, MAINTENANCE, PLANNING AND DEVELOPMENT OF THE PROJECT

The technical and financial proposals for the operation, maintenance, planning and development of the DHA City project are appended herein below.



Item No. 15

Technical and Finical Proposals in Reasonable detail for the Operation, Maintenance, Planning and Development of the Facility or System in respect of Distribution Service

TECHNICAL PROPOSAL

1. FUNCTIONAL DEPARTMENTS OF DISCO

A typical Distribution Company has following departments for its Technical operation, maintenance, planning and development of the facility, for the ease in working as per its task and scope:-

- TECHNICAL DEPARTMENT
- OPERATIONS DEPARTMENT
- METER TESTING DEPARTMENT
- POWER DISTRIBUTION CONTROL (PDC) DEPARTMENT
- BILLING AND METER READING DEPARTMENT
- CUSTOMER SERVICE DEPARTMENT
- SAFETY DEPARTMENT
- FINANCE / LEGAL DEPARTMENT
- ADMIN DEPARTMENT
- HR DEPARTMENT



2. TECHNICAL DEPARTMENT

TASKS:

- Technical specification of the equipment/material.
- Standards/codes to be followed for design parameters.
- Planning of Power distribution as per NEPRA codes/Regulations (primary, secondary and tertiary).
- Performance test/evaluation of supplier's equipment.
- Procurement Plan for infrastructure material, accessories and others.
- Execution/Construction of the proposed plan and undertaking of Expansion Plans.

The Department shall comprise of:-

- Planning & Design Dept.
- Standards/Specification Dept.
- Material Management Dept.
- Project Execution/Construction Dept.

3. OPERATIONS DEPARTMENT

TASKS:

- Operation and maintenance of distribution system.
- Operation and maintenance of Sub-Transmission and Grid.

The Department consists of the following:-

Operation and Maintenance (Distribution System)

The Operation and Maintenance (Distribution) is responsible for smooth operation and maintenance of the electrical distribution system at 11 kV and 400/220V i.e upto end consumer. Policy guidelines, schedules and authorization for maintenance of feeders are issued to the operating centers in the field and followed by frequent inspections carried out to ensure complete compliance.

The department shall also have a civil engineering team for design, construction and maintenance of all civil works including buildings /Cable Tranches/ Electrical Equipment Foundations/ Switch Rooms etc. The department will carry out below operation and maintenance activities:-

- Day to Day Operation
- · System shut downs operation in case of Work/Fault
- Back feeding and restoration operation at Feeder/Distribution transformer.
- Corrective Maintenance
- Preventive Maintenance
- Annual Maintenance

Operation and Maintenance (Transmission and Grid Station)

The Operation and Maintenance (Transmission and Grid Station) is responsible for smooth operation and maintenance of electrical network at 132kV including grid stations and transmission lines inside DHAC. The department carries out its functions in the field by issuing guidelines, schedules and authorization of preventive and maintenance programs. The department will carry out below operation and maintenance activities:-

- Monitoring on day to day Operation
- System shut downs operation in case of Work/Fault
- Back feeding and restoration operation at grid transformer.
- Corrective Maintenance

- Preventive Maintenance
- Annual Maintenance

4. METER TESTING DEPARTMENT

The meter testing department carries out testing, calibration and repair/replacement of instruments along with testing, calibration and installation of residential / commercial ToU Energy Meters, CTO Meters, HT BS Meters, VCB relays and related equipment.

In addition Meter testing department will also notify for any abnormal meter performance attributed towards the consumer on account of misuse of energy.

5. POWER DISTRIBUTION CONTROL (PDC) DEPARTMENT

SCADA & Load Dispatch Centre.

The entire network as planned for 132kV shall be monitored, controlled and operated through Load Dispatch Centre having Supervisory Control and Data Acquisition (SCADA) facilities, HMI and Smart Grid System.

SCADA includes,

- Data collection equipment
- Data transmission equipment
- Data monitoring equipment
- Human-machine interface (HMI)

The input is from the field comprising all the equipment relating to 132 kV, transformer, switchgears transmission line cable etc. Through interface cubicle and Remote Terminal Units (RTU), data is transmitted through PLC/Fiber Optical channels which is received in the Master Station, having data processing facilities with SCADA Servers.

SCADA as shown in Figure 1 servers provide full information to the Load Dispatch Centre, through Human-Machine Interface, for monitoring, control and operation of the entire network.

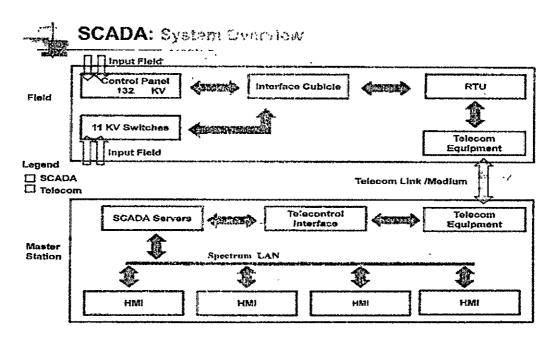


Figure 1: SCADA & LOAD Dispatch Facilities

For integrated power system SCADA facilities are essential as per NEPRA Grid

6. BILLING AND METER READING DEPARTMENT

Task:

- Billing and Meter Reading
- Theft Detection
- Recovery & Collection

BILLING AND METER READING

Meter reading of all the consumers will be carried out on a routine basis each month to record the consumption of energy consumed by each consumer during a given period (billing cycle/billing month). The meter reading is generally taken/recorded by the concerned staff. The meter reading program shall be prepared in such a way that the meters are normally read on the same dates each month.

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 will be printed on electricity bill. Record of snapshots for twelve months for each consumer shall be kept.

Theft Detection

Meter Readers shall also check the irregularities/discrepancies in the metering system at the time of reading meters / taking snap shots and will be reported through discrepancy code. Surveillance program for electricity theft while incorporating countermeasures.

Any theft/discrepancy detected in the meter, the lost energy units will be charged as per NEPRA CSM-21.

Recovery & Collection

The due date for payment of bills shall be within fifteen (15) days from the issue date of the bills. However, the consumers will have clear seven (7) days from the date of actual delivery of the bill for the purpose of payment.

All Commercial Bank Branches and Post Offices of the respective City/District where connection exists shall be collecting electricity bills from consumers who have been given option to deposit their electricity bills in any designated bank branch/post office. Online payment and payment through ATM Card/Credit

Cards or through cross cheques at designated bank branches can also be made where possible. NADRA KIOSK are also authorized to collect electricity bills.

LPS will be charged on late payment of bill. Consumers default to pay within due date shall be shill be approached through recovery team to avoid disconnection as per the guide lines staed in NEPRA CSM -21.

7. CUSTOMER SERVICES DEPARTMENT

Tasks:

- Preparation of standardized Consumer Service Manual (CSM).
- Provision of Service Criteria.
- Resolving customer complaints concerning individual specific or general technical and tariff issues.

- Processing/ sanctioning of various incentives for customers and employees
 introduced from time to time.
- Implementation of commercial policies
- Monitoring and management practices of recovery process.
- Making Policies and procedures to ensure consumer services.
- Sanction, contract management and monitoring of specialized electricity consumptions.
- Compilation of statistical data and management returns.
- Coordination with IT department for normalizing effective billing program.

8. SAFETY DEPARTMENT

The safety department is an important department in any utility company, it ensures that the system is operated and maintained in compliance with the statuary provisions regarding safety for the employees and the public. Frequent inspection are to be carried out and safety procedures and training are imparted to employees from time to time. Key functions of safety department are:-

- Provision of PPE and SPE for personal.
- Line isolation procedures/policy of live equipment/cable compliance.
- Work permit check.
- Regular safety talks and safety drills.
- Safety trainings to all employees/staff/third party.
- Emergency safety drills.
- Investigation and remedial action on any safety incident.

9. FINANCE / LEGAL DEPARTMENT

The finance department has overall responsibility of managing Finances of the Company and assists management's strategic financial decision making. The department controls financial activities of the company.

Legal department will deal with all Litigation/Court/NEPRA/ Federal Ombudsman matters as against the complaint of consumers.

This Finance/Legal Department shall have:

- Corporate Account Section (corporate A/C, Admin, payroll etc.)
- Corporate Planning & Control Section (Budgeting, Loan management etc.)
- DISCO Accounts section (Pre Audit, payments, funds etc.)
- Field Formation Account Section (Receivables/payables, Financial reporting, Fixed Assets etc.)
- Legal Section (Legal representation in handling matters, Tariff structuring and management of other tariff related matters and dealing with NEPRA from time to time)

10. ADMIN DEPARTMENT

The department shall be primarily responsible for:-

- Logistic and transportation
- Security of assets and personal
- Employee's benefits and medical services
- General administration, office management, inventory of general consumables, office supplies, furniture, lighting and air conditioning and stationary.
- Bill printing and distribution from third party
- Telephone/IT service management
- Scheduled maintenance of office equipment

Janitorial services and hygiene

11. HR DEPARTMENT

Human Resource department shall be responsible for recruitment and placement of the right people to the right job and develop the policies guidelines and procedures for

- · Manpower planning/budgeting.
- Recruitment and selection.
- Career planning and promotions.
- Annual appraisal performance management.
- Employee and grievance and complaints
- Compensation and benefits administration.
- · Training and development.
- Leave policy.
- Disciplinary cases.

INITIAL FUNCTIONAL DEPARTMENTS

The typical functional departments of DISCO will take time to establish based on the load/consumers growth. Therefore, to start DISCO activities in an initial setup following departments with limited manpower/third party contract will be made functional, to handle DISCO activities:-

- TECHNICAL DEPARTMENT
- OPERATIONS DEPARTMENT
- BILLING AND METER READING DEPARTMENT
- CUSTOMER SERVICE DEPARTMENT
- SAFETY DEPARTMENT
- ADMIN DEPARTMENT

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Janitorial services and hygiene

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- Employee and grievance and complaints
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- Leave policy.
- Disciplinary cases.

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- OPERATIONS DEPARTMENT
- BILLING AND METER READING DEPARTMENT
- CUSTOMER SERVICE DEPARTMENT
- SAFETY DEPARTMENT
- ADMIN DEPARTMENT



FINANCIAL PROPOSAL

DILAC ELECTIONS	INITED A ACCETE	/C\/NC4!N:***!NC
TIMAL FIELLWILDE	INITRA VACETA	/ E X O E N 11 1 1 1 1 1 1 1 1
DHAC ELECTRICAL	・バイン・レング・レン・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー・ファー	ノレハイレいりいしいしい

	o. Item Description UNIT			DHAC Assets		
S. No.	Item Description	UNIT	QTY	COST		
1	Step up Transformer	1				
а	7.5 MVA (At Lucky)	Nos.	2,0	20,124,000		
b	1000 kVA	Nos.	1.0	20,475,000		
2	Switch Panels					
а	6.3 kV	Nos.	3.0	5,000,000		
ь	11 kV	Nos.	2.0	4,700,000		
3	MV/LV Cables					
а	11 kVA Cable 400mm²	Meter	58,483.50	284,479,209		
b	11 kVA Cable 300mm²	Meter	37,664.00	164,103,812		
С	MV Cable 630mm ²	Meter	1,200.0	11,301,000		
d	LV Cable (all different sizes)	Meter	101,988.00	212,632,340		
	300,240,185,150,120,70,25 & 16	Wieter	101,500.00			
4	Ring Main Unit		· · · · · · · · · · · · · · · · · · ·			
a	3,4 & 5 Way (RMU)	Nos.	25.0	194,900,000		
5	PMU					
a	500kVA with RMU	Nos.	42.00	352,655,250		
·	500kVA with KIOSK	Nos.	20.0	143,597.004		
—	100kVA	Nos.	19.0	24,726,380		
6	KIOSKs	T T				
a	(Switching Station)	Nos.	19.0	119,816,301		
	Switch Room		2.0	6.004.004		
	6.5/11kV & 11kV/400V Civil Cost	Nos.	2.0	6,034,284		
	VCB	1		48.000.000		
	11kV	Nos.	6.0	13,330,980		
-	Feeder Pillar Box	1 :	440.0	704 057 630		
	Polymer Type	Nos.	410.0	701,857,639		
	Fiber Type	Nos.	69.0	40,200		
	Energy Meter		542.0	C 424 400		
a	CTO/Three Phase/Single Phase	Nos.	142.0	6,424,400		
 	Street Lights/Poles	Non	200.0	20.660.200		
	Solar Street Lights	Nos.	308.0	30,669,200		
	Conventional Street Lights	Nos.	1,404.0	50,769,000		
	Street Light Control Panels (SLCP)	Nos.	11.0	1,856,000		
	Poles (6, 8, 10, 12 & Globes)	Nos.	1,508.0	24,885,500		
	Solar Systems Solar Systems	lab	3.0			
	Solar Systems	Job Nos.	111.0	359,056,123		
	Inverter (Solar Panel)	I NOS.	111.0			
13	Gen-Sets	N T	17.0	20 004 202		
a	30/40/60/150/350/650 kVA Installation	Nos.	27.0	30,084,262		
 -		Cum/cft	237,979.0	409,758,339		
a	Cable laying and Equipment installation	[Cum/cit]	231,313.0	403,730,333		
15	Earthing MV/LV Network	Job/Mtr	1,428.0	28,888,595		
.a	Total	JOD/ WICE	1,7∠0.0	3,222,164,818		
	Withheld and will be released after Closing of Projs			207,605,703		
	Amounts Paid	- -		3,014,559,115		
- 16	OCL Consultancy & Design fees	** [34]		123,924,094		
, TO "	Total		1.48	3,138,483,209		
17 -	Work in Progress + Amount Payable on open Contracts		÷.	619,994,190		
	Grand Total For Electrical Infra			3,758,477,399		

VI. FEASIBILITY STUDY

FEASIBILITY STUDY OF THE DHA CITY PROJECT

Please refer to the documents appended herein below as **Annex E-2**, **E-3**, **E-4**, **E-5**, **E-6**, **E-7**, **E-8**.

ANNEX - E-2

THE TYPE, TECHNOLOGY, MODEL, TECHNICAL DETAILS, OPERATIONAL CHARACTERISTICS, SYSTEM INTERCONNECTION AND DESIGN OF THE FACILITIES OR SYSTEM PROPOSED TO BE ACQUIRED, CONSTRUCTED DEVELOPED OR INSTALLED

The Type, Technology, Model, Technical Details, Operational Characteristics, System Interconnection and Design of the system are appended below:

Furthermore, the type, technology and technical details for the distribution system are also provided in Annexes F-8, F-9, F-10 and F-12.



Item No. 16

The Type, Technology, Model, Technical Details And Design of The Facilities Proposed To Be Acquired, Constructed Developed or Installed

1. THE TYPE, TECHNOLOGY, MODEL & TECHNICAL DETAILS

DISTRIBUTION FACILITY

Type, technology and technical details for Distribution System are given as under:-

DESIGN CRITERIA

The DHAC Electrical Distribution shall meet following requirements:

- > High reliability
- > Safe operation
- Route protection
- Redundancy
- > Reliable technology
- Easy to maintain and troubleshoot
- Environmentally protected
- Cost effective



SYSTEM CONDITIONS

NORMAL SYSTEM VOLTAGE	***************************************	HV	132,	000 Vol	ts
		MV	11,0	00 Volts	s ;
	art do are set to are do At the do do	LV	400	Volts	
HIGHEST SYSTEM VOLTAGE		HV	145,000 Volt		ts ·
	4512777777	MV	12,0	00 Volts	\$
		LV	440 '	Volts	
PHASES:		MV	3		
		LV	3 (4	wire)	
FREQUENCY:		HV/MV/I	_`V	50	Hz
RATED SHORT CIRCUIT CURRENT:	-	HV	50	kA	
RATED SHORT CIRCUIT CURRENT:		HV MV	50	kA kA	
RATED SHORT CIRCUIT CURRENT:					
RATED SHORT CIRCUIT CURRENT: BIL (Basic Impulse Level)		MV	20	kA	
		MV	20	kA	
BIL (Basic Impulse Level)		MV LV	20 46	kA	
BIL (Basic Impulse Level)	 (132 kV)	MV LV 650 75	20 46 kV	kA	
BIL (Basic Impulse Level) Lightning Impulse Withstand Voltage	(132 kV)	MV LV 650 75	20 46 kV kV	kA	
BIL (Basic Impulse Level) Lightning Impulse Withstand Voltage	(132 kV) (11kV) (132kV)	MV LV 650 75 275	20 46 kV kV	kA	



SYSTEM EARTHING

Neutral Grounded through resistor at Grid-Station to limit the earth fault current.

CLIMATE CONDITIONS

Max Ambient Air temperature	02724724%;	50 °C
Max Daily Average temperature	######################################	40 °C ·
Min Ambient Air temperature		O °C
Max Ambient Air temperature		
on Exposed Horizontal surface		60 °C
Highest Radiation intensity		1000 W/m ²
Max relative humidity	MM4844448477-7-	95%
Isokeraunic level		9.7 Days/Annum
Altitude	#41-7 -	Sea Level
Location		Semi desert
Pollution		Wind-blown sand



2. FEEDER PILLAR BOX

Fuse Type FPB

LV Distribution Feeder Pillar Boxes (6, 8. 10 Way) shall be used for providing service connection to consumers. The incoming & out going circuits shall be of 4 core 70/120/240 mm² Cu or 4 core 95/150/300 mm² Al armored cables as per load requirement and shall be connected at incoming & outgoing main HRC detachable Fuses of 315 Amps. The fuse bases shall be of same rating as fuses.

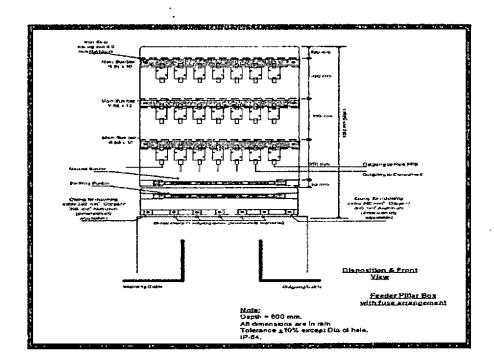
BUS BAR:

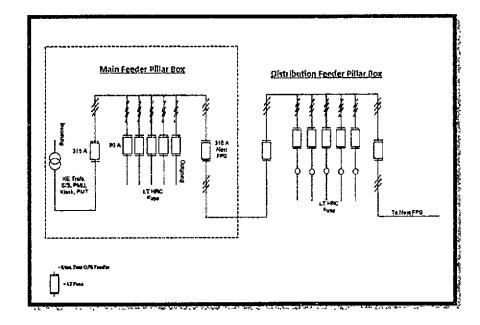
Bare Aluminum bus bars shall be installed. The bus bars shall be marked with Red, Yellow, Blue, Black & Green (R, Y, B, N and Earth) color for identification.

The Aluminum bus bars shall have the following Electrical/Mechanical characteristics as mentioned.

Description	Values	Unit	
Material	Aluminum (1350)	TO THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE	
Tensile Strength	80 (Tolerance of -1%)	N/mm Sq	
Electrical Resistivity	2.83	M ohm cm	
Density	2.70	g/cm3	

Typical sample layout for 6 way FPB as below:-







MCCB TYPE

The feeder pillar housing shall have front and rear compartment. A suitable sheet of insulating material shall be provided for separation between front and rear compartment. The rear compartment shall contain LV main 600 A TPN+E bus bar, MCCB, CT operated 3 phase, 4 wire electronic AMR Energy meter, set of current transformers.

The front compartment shall contain LV distribution 300 A TPN+ E bus bar outgoing MCCBs for consumer feeders. Incoming MCCB shall be connected between main and distribution Bus bar and distribution bus bar onward shall feed the outgoing MCCBs for consumer feeders. The rear compartment shall contain LV main 600 A TPN + E bus bar, MCCB, CT operated 3 phase ,4 wire Electronic AMR energy meter, set of current transformers. The front compartment shall contain LV distribution 300A TPN + bus bar and outgoing MCCBs for consumer feeders. Incoming MCCBs shall be connected between main and distribution bus bar and distribution bus bar onward shall feed the outgoing MCCBs.

3. PAD MOUNTED UNIT (PMU)

This specification describes the design of the **500 KVA** Transformer Pad Mounted Unit to be used in distribution network shall be IP54 compliant, suitable for outdoor use. The pad mounted transformer shall be suitable for installation in the three phase underground 11KV distribution system of the following characteristics:

i.	Nominal system voltage	 11 KV
ii.	System highest voltage	 12 KV
iii.	Frequency	 50 Hz

MV COUPLING COMPARTMENT

The enclosures for MV Coupling Compartment for linking the RMU to the 500 KVA Distribution Transformer shall be through insulated Flexible Bus bar arrangement connected to the HT Bushing of RMU and the Transformer HT bushing, and shall be tested for insulation levels:

×	Lightening impulse withstand voltage	75 KV
	One minute power frequency withstand voltage	28 KV



The MV side shall consist of RMU with the additional features of bushing CTs & transformer current feed time over current relay for protection of the 500 KVA PMU Transformer and wooden cable holding cleat for support of HT cable.

The rating of incoming and outgoing LT TP MCCBs for LT Compartment can be varied as per the need and requirements of load. The LT Circuit Breaker shall comply with the below requirement or as per the loading conditions:-

Option-I (Provision shall be provided for insertion of 240/300 mm2 Lugs)

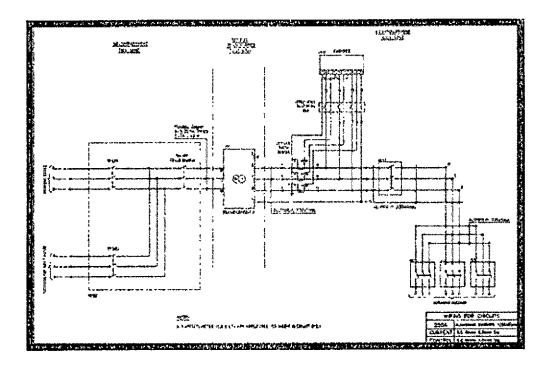
- i. 01 Number TP MCCB 630 Amps LT Circuit Breaker (Incoming)
- ii. 03 number TP MCCB 250 Amps LT Circuit Breaker (Outgoing)

Option-II (Provision shall be provided for insertion of 240/300 mm2 Lugs)

- i. 01 Number TP MCCB 800 Amps LT Circuit Breaker (Incoming)
- ii. 02 Number's TP MCCB 400 Amps LT Circuit Breaker (Outgoing)

PMU rating shall not be limited to 500kVA and with enclosed RMU, it shall vary as per design requirement to 100/200/400kVA PMU.

Typical layout / Single Line diagram of PMU:-



Page - 7



Circuit breaker ratings with corresponding transformer ratings are mentioned in below table:

423	KVA	G anil		is living		Themal	Magnetic Setting+
	Rating	ситепимых				Setting (In or ir)	(b, or im) *
1	10	280	14	11	40	Fixed	Fixed @ 10 ln
2	. 15	420	21	17	40	fixed	Fixed @ 10 In
3	25	680	34	28	40	Fixed	Fixed @ 10 In
4	50	1380	69	55	80	Fixed	Fixed @ 10 ln
5	100	2760	138	110	160	0.8 In	5/10 ln
6	150	4120	206	165	200	0.8 în	5/10 in
. 7	200	5500	275	220	250	0,81n	5/10 ln
8	250	√_6880	344	275	400	0,81n	5/10 ln
9	400	11000	550	440	630	0.8 In	5/10 ln
10	500	1376D	688	550	800	0.8 ln	5/10 ln
11	630	17340	857	694	1000	0.8 ln	5/10 ln
12	750	20540	1032	826	1200	0.8 In	5/10 ln
13	1000	27520	1376	1101	1600	0.8 ln	5/10 in
14	1500	41280	2064	1651	** (1x800 1x1600)	0,8 in (Both)	5/10 In (Both)

3. UNDERGROUND LV CABLES:

Equivalent sizes for XLPE aluminum cables against PVC copper cables with reference to the Current Carrying Capacities requirements as given below:

CoppenPVC UG Cable Aluminum XLPB UG Cable				
Size (sq.mm)	Ampacity (Amps)	Equivalent Size (sq.mm)	· Ampacity · (Amps)	
16	69	16	. 60	
35	108	35	91	
70	158	95	160	
120 ;	216	150	205	
240	314	300	303	

Where, Ambient Ground Temperature = 20°C, PVC Correction Factor at 30°C = 0.89, XLPE Correction Factor at 30°C = 0.93, Current ratings are calculated as per IEC 60364-5-52 2009-10.

4. SWITCHING STATION

RING MAIN UNIT (RMU)

This part specifies SF6 insulated metal enclosed ring-main unit designed for indoor use for alternating current of 630A at rated voltage of 12kV and 50Hz frequency. The equipment is required for MV distribution network for ring and T-Off.

The ring main unit shall conform to the following IEC standards: 62271-1. 62271-100, 62271-102, 62271-103, 62271-200 (latest applicable) and other relevant standards

TECHNICAL SPECIFICATION FOR RMU

1. 11KV bus bar

i.	Material	Copper
ii.	Current carrying capacity	
	a. @ 40 deg C	630 Amps
	b. @ 50 deg C	570 Amps
iii.	Short time rating current	20kA for 3 sec
iv.	Bus bar insulation	SF6

2. High Voltage Switch

i.	Nominal system voltage	11 kV
ii.	Highest system voltage	12 kV
iii.	Highest voltage for equipment	12 kV
iv.	Rated impulse withstand voltage	95 kV
V.	One minute power frequency withstand voltage	38 kV

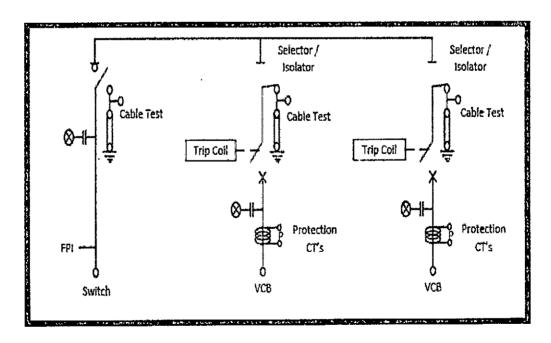


4.

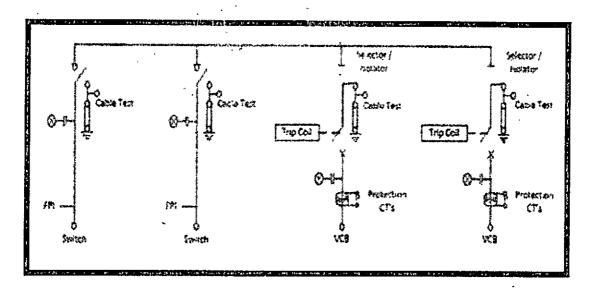
vi.	Rated frequency	50 Hz
vii.	Rated normal current	630 Amps
viii.	Rated short-time current	20 kA for 3 sec
ix.	Rated peak withstand current	50 kA
X.	Rated short circuit making capacity	50 kA
xi.	Insulating gas	SF6
xii.	Endurance Class (As per IEC 62271-103 lates	st publication)
	a. Mechanical Endurance	M2(5000)
	b. Electrical Endurance	E3

Typical layout diagram of RMU:-

3-Way 2 Side Protection RMU



4-Way 3 Side Protection RMU



Kiosk Sub Station

The kiosk substation shall be compact and outdoor type design.

- The kiosk sub- station shall have four (04) compartments each one shall house the equipment as under.
 - i. MV VCB Switchgear panels- Three Numbers
 - ii. Oil filled distribution transformer-kVA Rating 1000/750/500
 - iii. LV panel

The Kiosk shall be complete in all respect with inter connection between MV switchgear and MV distribution transformer and between LV side distribution transformer and LV panel.

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5. GENERATION FACILITY.

Following are the Power Sources/Generation available at DHAC Karachi:-

- (i) 1.5 MW of PV Solar Power Generation
- (ii) 1.61 MW of Diesel Generation (Backup)
- (iii) 5 MW, 2 x feeders form M/s Lucky Cement Ltd via KE.

Following are the various sources of Power Generation (currently under consideration):

- (i) Solar 1.5 MW with backup batteries
- (ii) Wind 3 x 2 MW turbines
- (iii) 132 kV external power source

Following are the various sources of Power Generation (long Term design consideration):

- (i) Solar 50 to 60 MW
- (ii) Wind 50 MW
- (iii) Bio-mass/organic waste 40 MW
- (iv) External (Conventional) 350 MW



DESIGN OF THE FACILITIES PROPOSED TO BE ACQUIRED, CONSTRUCTED DEVELOPED OR INSTALLED

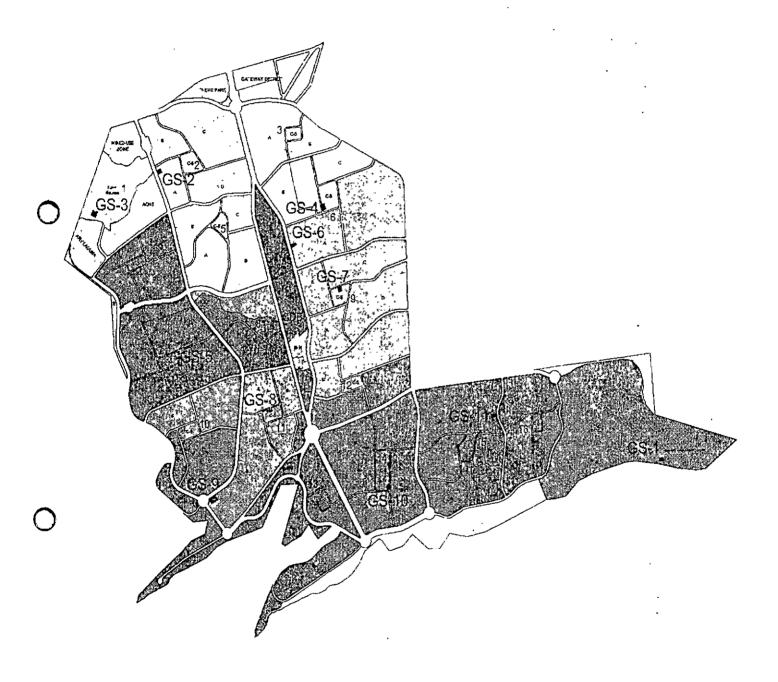
Layout design of the facility are as under:-

- 1. Grid locations for DHAC (S) is attached as Annexure-A.
- 2. Typical Single line Diagram of 132kV GIS Grid Station as Annexure-B.
- 3. Typical layout plan of 132/11kV GIS Grid Station as Annexure-C
- 4. MV/LV of design for DHAC (S) sector 1, 2, 3, 7, & 14 attached as Annexure-D.



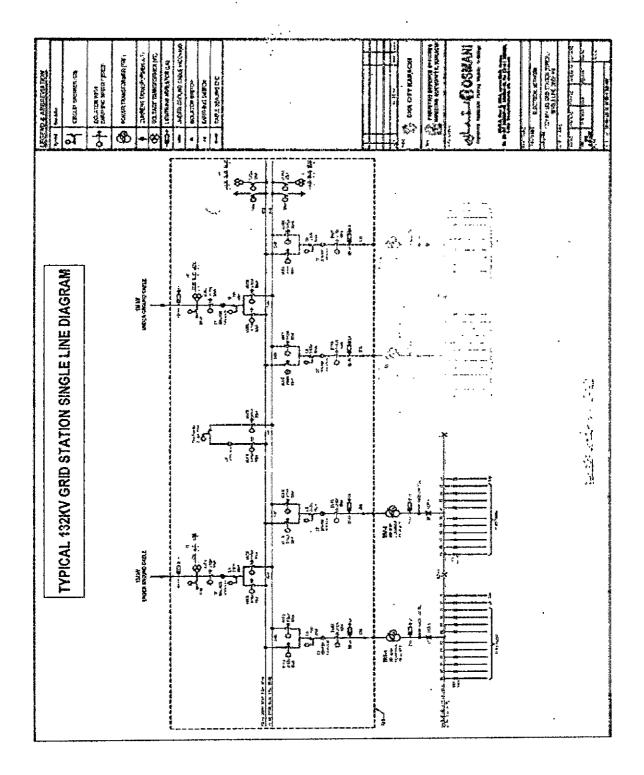
Annexure-A

GRID LOCATIONS FOR DHAC (South):



Typical Single line Diagram of 132kV GIS Grid Station

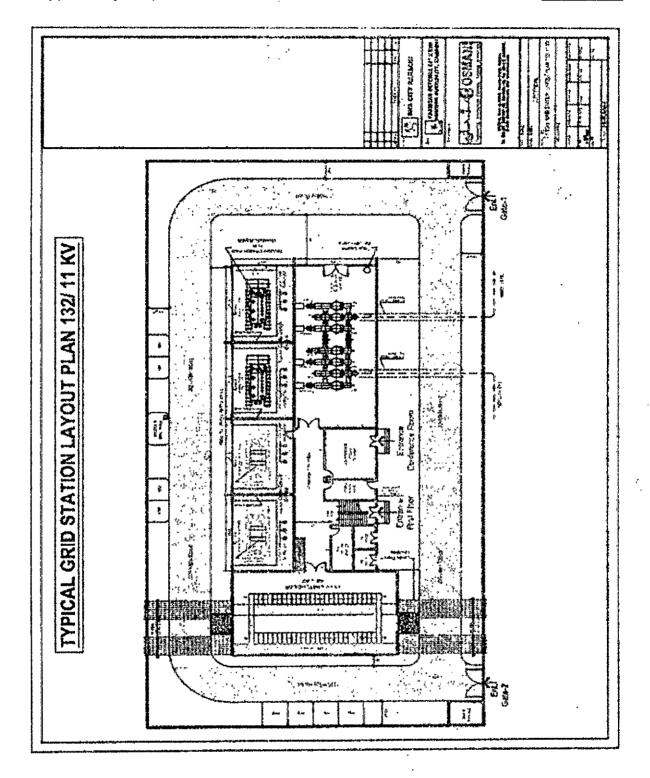
Annexure-B





Typical layout plan of 132/11kV of 132kV GIS Grid Station

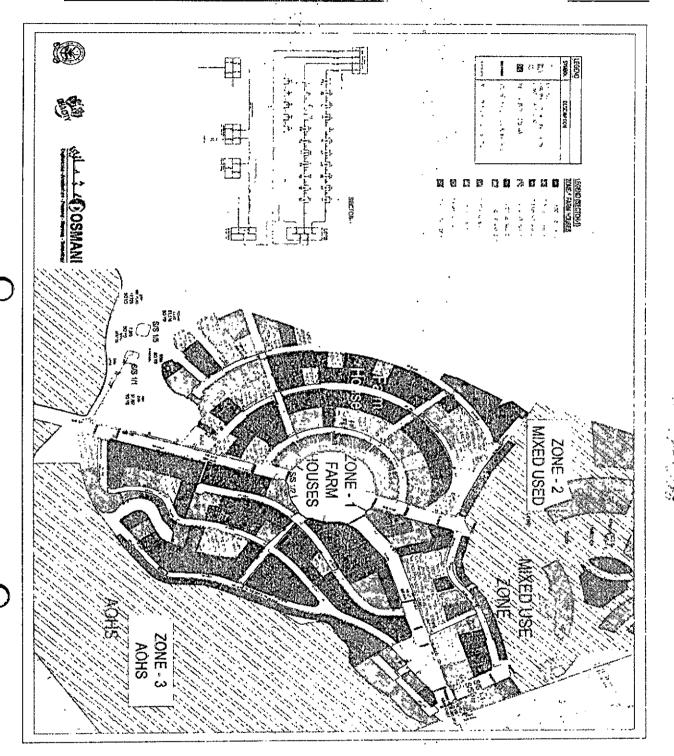
Annexure-C





SECTOR-01 LV & MV Master Plan:

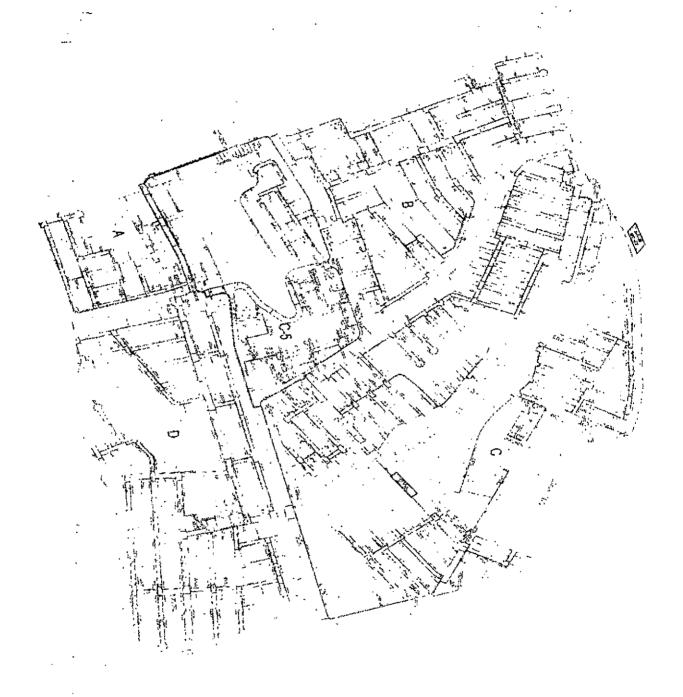
Annexure-D



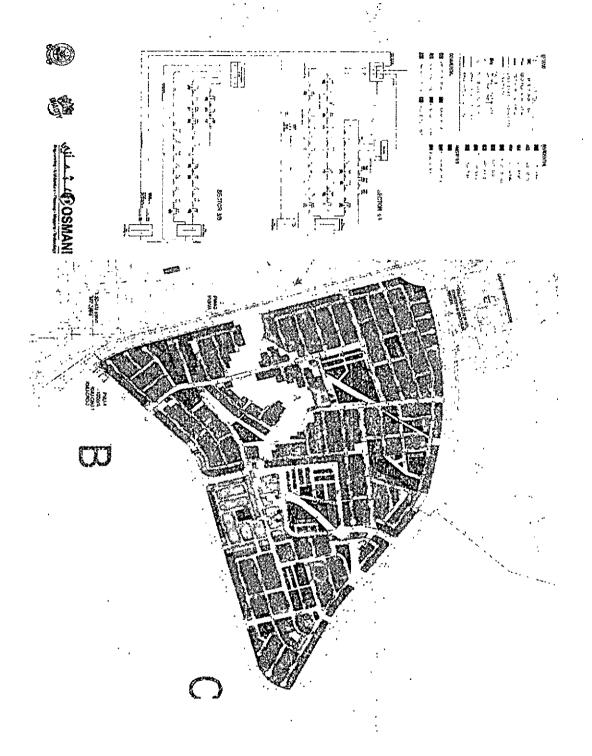


Sector-02 LV & MV Master Plan:



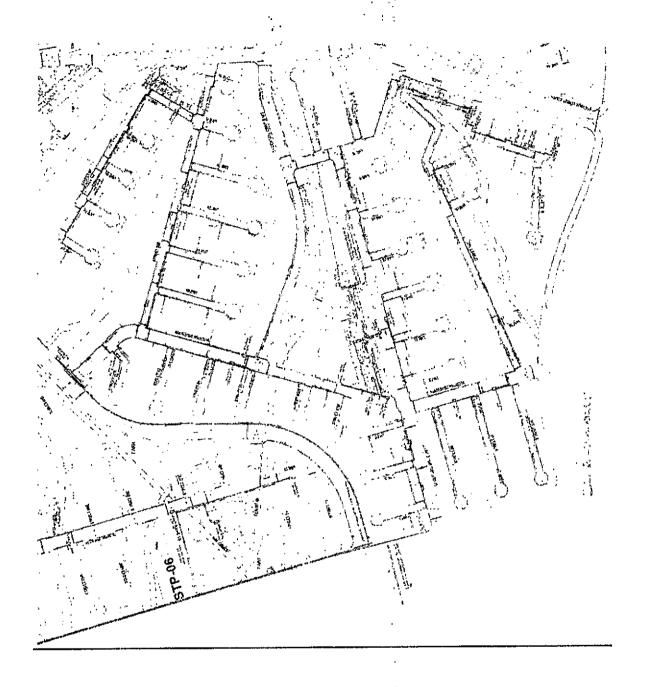


Sector-03 MV & LV Master Plan:



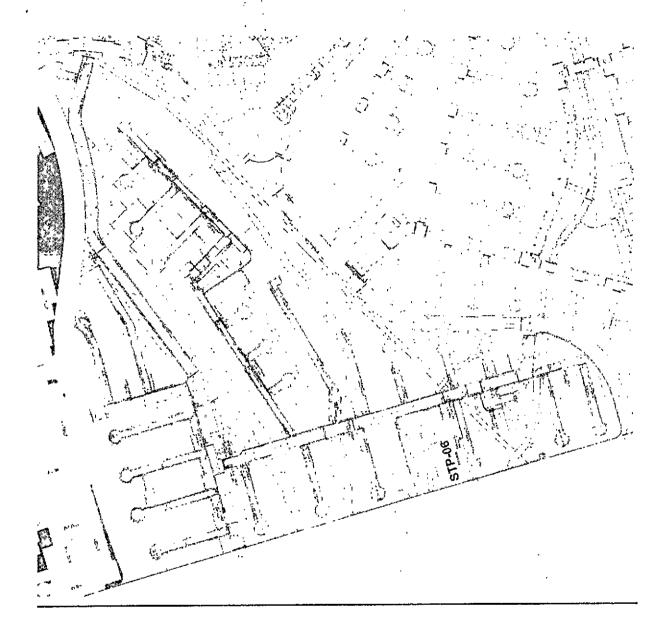


Sector-05A MV & LV Master Plan:



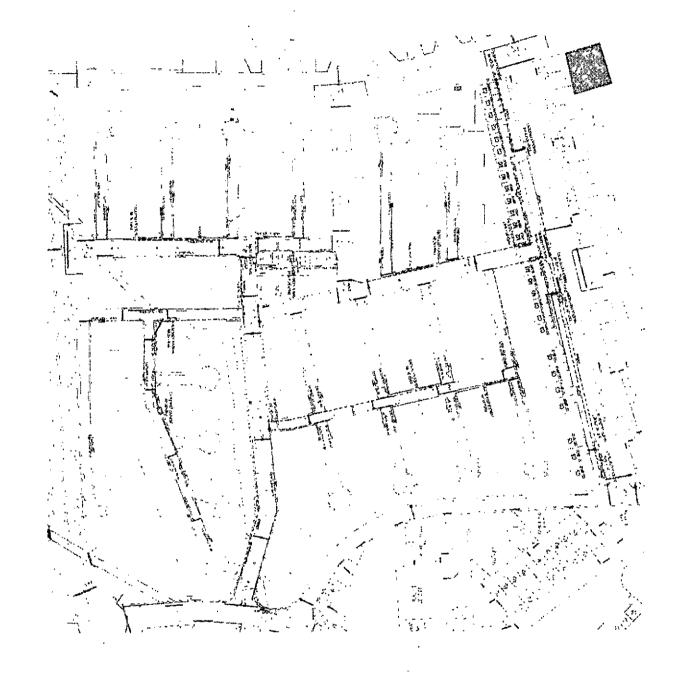


Sector-05B MV & LV Master Plan:

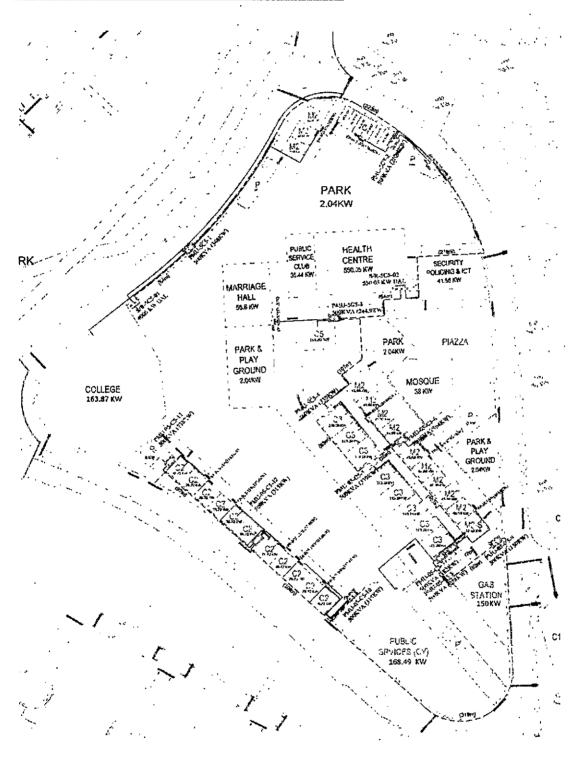




Sector-05C MV & LV Master Plan:

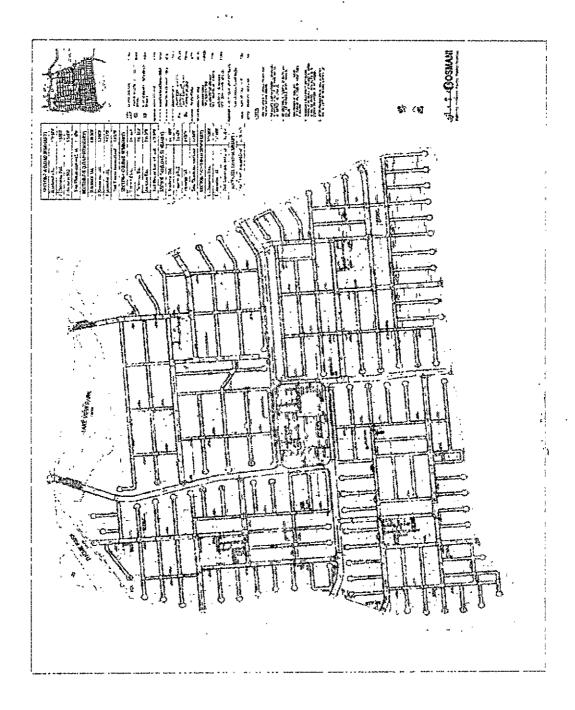


Sector-05 C-5 MV & LV Master Plan:



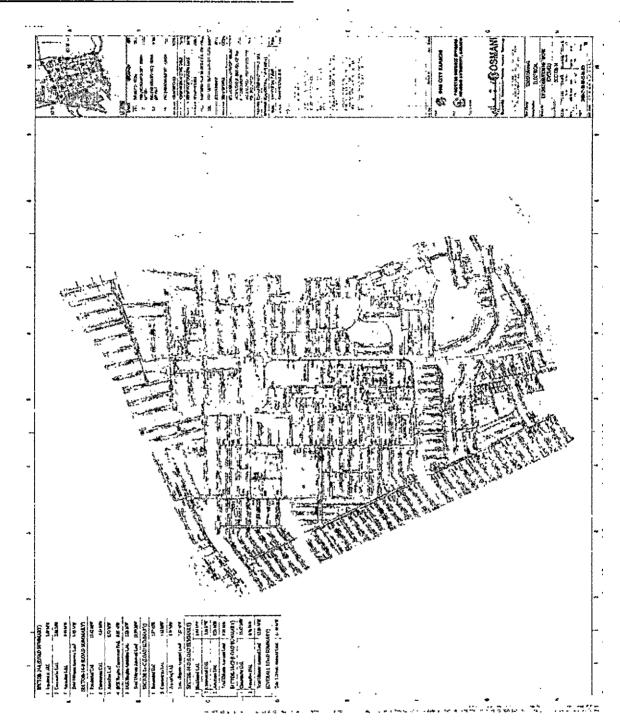


Sector-07 MV & LV Master Plan:





Sector-14 MV & LV Master Plan:



THE EXPECTED LIFE OF THE SYSTEM

The expected life of the system will be approximately **30 years.** Please see the document appended herein below.



Item No. 17

Expected Life of The Facility or The System

The type and technology that is being considered under the prevailing state of the art technology where design will correspond to an expected average life of minimum 25 to 30 years based on equipment characteristics. Depreciation of 20 years is kept under consideration as per NEPRA CSM-21. However with strong corrective and preventive Maintenance the expected life will be determined on actual basis under optimum loading of the system components.

THE LOCATION OF THE SYSTEM, OR THE TERRITORY WITH OUTER BOUNDARIES WITHIN WHICH THE SYSTEM IS PROPOSED TO BE INSTALLED AND OPERATED BY THE LICENSEE, ALONG WITH MAPS AND PLANS

The DHA City is a real estate project located in North-East Karachi which aims to provide a premium residential facility to cater to that region. DHA City is built on national and international standards with all public facilities required for a modern city.

DHA City Karachi spreads over an area of 22,446 acres with categorized DHAC South (11,680 acres), DHAC North (9,864 acres) and DHAC Shuhda Land (902 acres). It has an uneven, rocky terrain in the Northeast (NE) and Southeast (SE) region whereas Southwest (SW) and Northwest (NW) are mostly plain and even regions.

Map of the DHA City is provided herein below.



Item No. 18

The Location of The Facility Or System, or The Territory With Outer

Boundaries Within Which The Facility or System Is Proposed To Be

Installed And Operated By The Licensee Along With Maps And Plans

1. Location of the Territory with Outer Boundaries

The Pakistan Defence Officers Housing Authority (DHA) has acquired new land for development of state of the art housing project known as DHAC Karachi, located approximately 55 kilometer from Karachi on Main Super Highway M-9 with Hyderabad city at 112 kilometer.

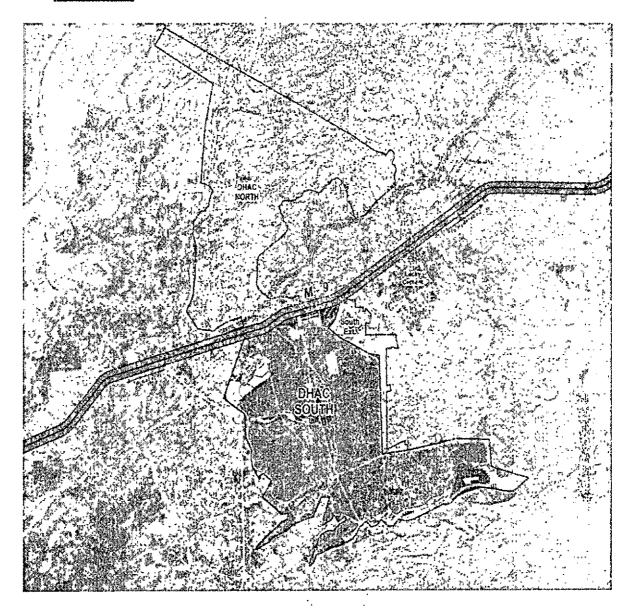
DHAC is distributed in three major areas namely DHAC North (9684 acres), DHAC South (11,680 acres) and DHAC South Extension (902 acres). Development of the total area, spread over 22,446 acres, inclusive of all infrastructure is the responsibility of DHAC following the design of Consultant(s) for development in phases, where individual houses/commercial complexes shall be built by the owners who have purchased or leased the land in their name.

Location plan with outer boundaries where system and facilities are to be installed is as below:-

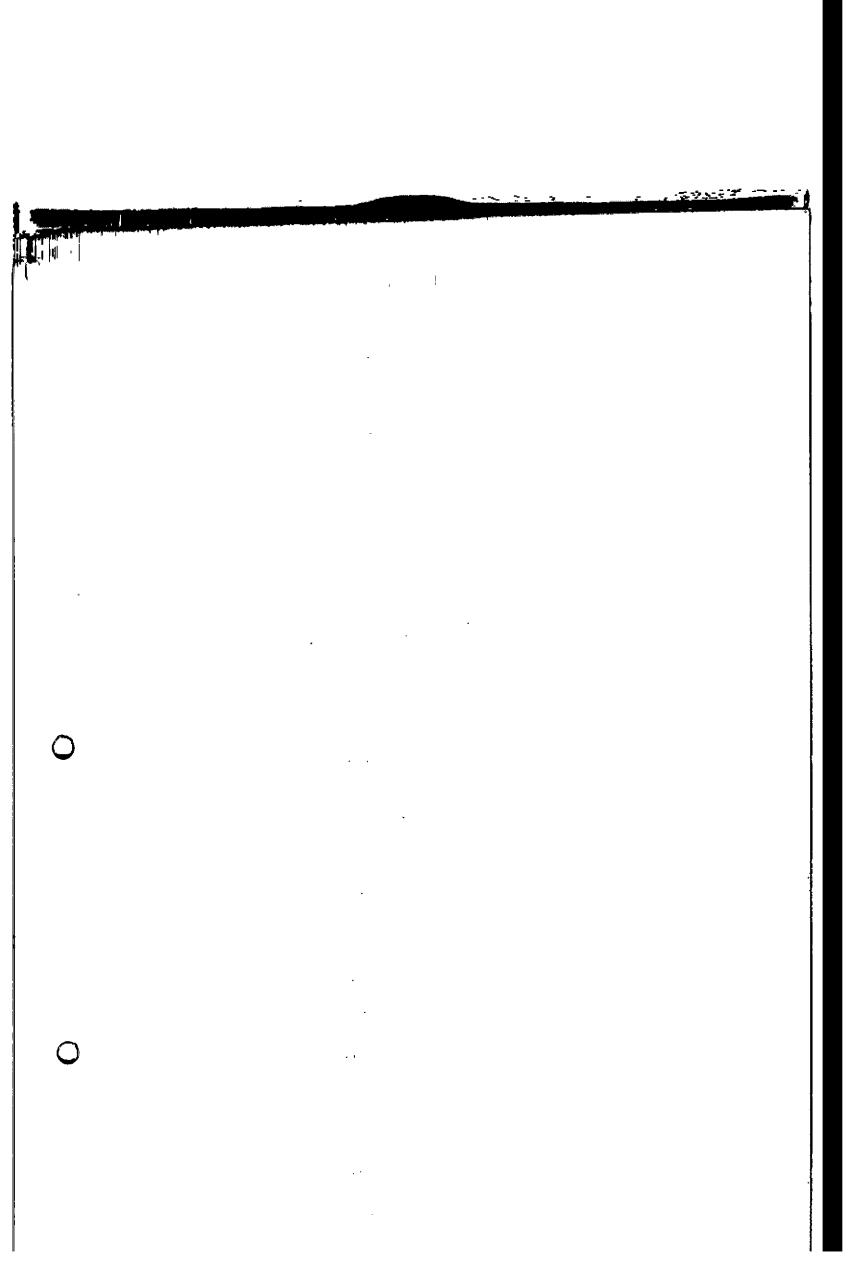
Page - 1



2. Area Map



The fuel type and availability of DESCO is appended herein below.



Item No. 19

Fuel Type and Availability

In order to have a strong environmental control/ impact over the licensing territory. Fuel type will be as under for various sources of generation by DHAC:

1) Solar Power Generation No fuel required

2) Wind Power Generation No fuel required

3) External Generation Only transmission line

4) Bio Fuel generation Bio Material/ Organic Waste

ANNEX - E-6

INFRASTRUCTURE PROJECT COST, FINANCING PLAN, FINANCING TERMS, TARIFF CALCULATIONS AND ASSUMPTIONS OF FINANCIAL CALCULATIONS INCLUDING ECONOMIC/FINANCIAL ANALYSIS

Please see the document appended herein below.



Item No. 20

Infrastructure Project Cost, Financing Plan, Financing Terms, Tariff Calculations And Assumptions of Financial Calculations Including Economic/Financial Analysis

DHAC Karachi is being developed to be the first fully energy self-sufficient, large-scale residential project in Karachi and the provision of a reliable electric distribution and supply is key to ensuring the viability of DHAC as a project. The goal of energy self-sufficiency at DHAC will also help reduce the load on the overburdened national grid and set a precedent for similar residential projects across Pakistan.

In pursuit of its objectives of energy self-sufficiency and to meet its present electricity needs, DHAC has already established a 1.5 MW renewable energy generation capacity through solar power. In addition, due to the absence of KE's network within DHAC jurisdiction, DHACs management has planned to source power directly from Lucky Cement (through KE). Till date, DHAC has installed and sponsored two 7.5 MVA power transformers at Lucky Cement (LCL) and laid two 11 kV underground cables, covering approximately 5 km from LCL to DHAC. A significant portion of the electrical distribution network has already been established across several sectors of DHAC. DHAC has already incurred substantial Capex amounting to approximately PKR 3.50 billion to develop the distribution and supply infrastructure, which can handle a capacity of up to 6.5 MW. It is imperative to highlight that this capacity is projected to meet the electricity demands of DHAC residents for the next five years. Furthermore, a letter of comfort has been obtained from Lucky Cement, confirming the availability of up to 5 MW of power, and DHAC is in the advanced stages of finalizing a Power Purchase Agreement (PPA) with Lucky Cement. By integrating the power generation through traditional and renewable energy sources, DESCO will ensure the reliable and uninterrupted supply of electricity to residents.

The power distribution and supply infrastructure will primarily be financed through DHA's own equity, with additional funding support from banks (if required overtime). Letters of comfort from DHA partner banks including UBL, and Silk Bank provides additional comfort ensuring



access to debt financing for the project's expansion and for its network system (in case if required for expanding distribution and supply infrastructure network overtime).

Obtaining the distribution and supply license from NEPRA is a strategically essential step to bridging the power gap in DHAC. Once distribution and supply license application will be awarded to DESCO by NEPRA; DESCO will provide detailed tariff calculations at the time of tariff petition ensuring compliance with NEPRA's regulatory requirements. Securing this license will enable DHA DESCO to deliver on its mandate of providing reliable, sustainable power while supporting long-term energy stability and growth in DHAC.



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ANNEX — E-7

THE TYPE AND DETAILS OF THE SERVICES PROPOSED TO BE PROVIDED

The type and details of the services proposed to be provided are appended herein below.



Item No. 21

The Type and Details of The Services Proposed To Be Provided

Services proposed to be provided shall include professionally handling of all issues relating to:

- i. 220/400 Volt LV supply to residential/commercial/parks/place of worship etc.
- ii. 11 KV MV Bulk supply where single point meter is required to Institutions/ Malls Hospitals/Commercial buildings/Banks/Hotel/Recreational Facility etc.
- iii. The services shall be un-interrupted power supply to DHAC residents/ consumers throughout the year.
- iv. Maintaining Quality of Power with respect to voltage deviation, frequency variation, and Harmonics etc.
- v. Safety standards and its implementation.
- vi. Operation of electrical system with high reliability & availability.
- vii. Maintenance of system with least power outages and durations.
- viii. Customer services.
- ix. Billing after providing power connections to consumers.
- x. Tariff structuring and management of other tariff related matters and dealing with NEPRA from time to time.
- xi. Preparation of performance reports.
- xii. Maintenance of data and records in respect of provision of electrical power services.

ANNEX — E-8

THE ENVIRONMENTAL IMPACT OF THE SYSTEM

The environment impact is covered within the Environmental Impact Assessment (EIA) of the DHA City project, as approved, which is appended herein below.



Item No. 22.

Environmental Impact of The Proposed Facility, System or Project

1. Environmental impact of the proposed facility, System or Project

The DHAC Karachi has been envisioned as 'the First Sustainable City of Pakistan', which will probably serve as a model for the future independent cities in the country and abroad. The aim has been to plan and build a city, which provides its citizens a safe, comfortable, efficient and beautiful lifestyle which is also environmentally sustainable. This project will be completed through an unprecedented exercise involving 100+ national and international experts using latest international standards and GIS technology. DHAC would bring both DHAC and Pakistan on the international map of Sustainable cities development.

Sustainability identifies "a development that looks at a site's natural land, water and energy resources as integral aspects of the development", and DHAC planners have aimed and achieved a Master Plan that fits on the definition of a sustainable city.

2. Sustainable city

One of the main goals of DHAC is to adopt a holistic and sustainable design and planning approach. In order to achieve reduction of CO2 emissions, it is essential that energy demands both from buildings and infrastructure are kept at minimum level. The city therefore would operate with less energy, part of which will be generated on-site from low carbon and renewable energy resources (Solar, Wind, Bio mass)



The main concepts for DHAC sustainable master planning are:-

- > Energy demand reduction
- > Use of renewable energy sources both in public and private sectors.
- > Provision for strategic locations for heat sinks (lakes-forests-green areas)
- Provision for shading from trees/ buildings.
- > Provision for efficient planning to benefit from prevailing winds.

Within this context the master plan aims to create a basis for sustainable community for healthy living by addressing the following parameters:-

- > Building Sustainability.
- > Integrated Transport system.
- > Waste and water management.
- > Natural landscape.
- > Healthy living.
- > Economy.

VII. DETAILS OF THE DISTRIBUTION

SYSTEM

ANNEX - F-1

ENVIRONMENTAL AND SOCIAL SOUNDNESS ASSESSMENT (ESSA) REPORT

Please refer to the Environmental Impact Assessment appended hereinabove as Annex E-8.



DL Addl Item No. 1

Environmental and Social Soundness Assessment Study/Report

DHAC have their own land for establishment of DESCO and ESSA study is covered in EIA report at the time of project inception and approved by SEPA.



Reference No: EPA/20/2//2

ENVIRONMENTAL PROTECTION AGEN

GOVERNMENT OF SINDH

Plot # ST-2/1, Settor 23, KA, Karacis-74900 Phr. 6065950, 5065698, 5065637 8065532, 5065945, 5065621 electroscyber net pa Facelynia: 5065940

Dated: 30-04-2013

DECISION OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA).

The Project Director, Name & Address of Proponent:

DHA City Karachi.

Description of Project:

Construction on approximately 11,640 ncres(47, 10 sq.km), total 53,000 plots

offered to accommodate about 600,000

Location of Project:

DHA City is situated around 56 km from the city, Knrachi-Hyderahad Super Highway in Gadap Town at the eastern border of Knrachi, bordering Thana District in the South and Jamshore District in the East.

17-12-2012

Date of Filing of EIA:

- After careful review and analysis the Environmental Impact Assessment (EIA) report, the Environmental Protection Agency (EPA). Sindh has decided to accord its Approval subject to the following conditions:
 - The recommendations of EIA study report including the environmental . management and monitoring plan will be strictly adhered by the proponent.
 - The proponent shall hire an Independent Monitoring Consultant (IMC) having expertise in carrying out Environmental & Social Impact monitoring. IMC shall monitor the implementation of proposed activities during construction phase against the commitments made in EIA report and during public hearing. The report of the same shall be submitted to SEFA on quarterly basis. iŧ.
 - The project should be built and designed with energy efficient approach with minimum cooling and heating requirements in consideration of utilizing sunlight and wind. Options for energy efficient building materials should be H. explored in order to achieve conservation of natural resources.
 - Rain wester harvesting system will be incorporated into project design, the details of which must be submitted to this office for information

Always Remember -- Reue, Robies & Recycle

- v. The proponent shall ensure that no unfortunate incident(s) are caused due to construction and operation of project. The cost of damnage to the environment, property or life of the people/workers shall lie on the proponent.
- vi. The approval is accorded only for the project activity described in the EIA report. Proponent shall submit separate BIA/IEE as required for development of any component which is provided in EIA/IEE Regulations 2000.
- vii. A comprehensive traffic management plan from Karuchi to project area shall be developed to facilitate commuters and vehicular movement in and around project site, same will be submitted to EPA Sindh accordingly.
- viii. The proponent will follow current building byelaws/regulations and the construction plan approved by the competent authority which must include seismic structural and geo-technical analysis. Proponent will follow Sectoral Guidelines for Housing Estates and New Town Developments.
- ix. A comprehensive waste management plan shall be developed for effective disposal of construction waste. Solid waste will be collected, transported and disposed of by following the current practices of Municipal Agencies. A dedicated waste management contractor shall manage handling and appropriate disposal of solid waste.
- During construction phase demolition, eathmoving and ground-impacting operations shall be phased to avoid the cumulative effect of their noise and vibration. Engineering design of the vibration and sound producing equipment such as generators, chillers, pumps and other machineries together with housing such units in soundproof enclosures with right location and provision of adequate vibration democrers in the foundation design of the units shall be adopted as an effective in minimizing the noise levels and vibration impact.
- xi. All first storage tanks should be made to an international standard and will be inspected by third party for lenkage and other damage.
- xii. For all engineering designs, NFPA (National Fire Protection Authority) codes will be followed. Standard fire and smoke detection and protection devices such as alarms, sprinklers, fire hoses and hydrants will be provided at all critical locations in building.
- xiii. No untreated effluent will be released to the environment. A dedicated domestic wastewater treatment plant will be constructed to comply with NEQS. The proponent shall ensure that emissions/effluents from project site do not pose an unacceptable risk to human health or become nuisance to the neighborhood.

- xiv. Construct the buildings in accordance with UCP Zone 2B.
- xv. Proponent will introduce indigenous vegetation species along RoW of proposed access routes and in public parks that requires less water, drip irrigation or shaded plautings. Avoid plantation of exotic/invasive species in landscaping, in parks and along RoW of proposed and existing access routes. Details of budget allocated for environmental improvement of the area including plantation shall be submitted to this office accordingly.
- xvi. DHA City management will facilitate EPA Officer(s)/Official(s) as and when required for inspection of compliance status against the provisions of Pakistan Environmental Protection Act, 1997, rules and regulations framed there under and the conditions land down in this approval.
- xvii. After every three menths from the date of issuance of this approval, development of the project will be reviewed jointly by the Environmental Protection Agency, the Independent Monitoring Consultant and the proponent with a focused to implementation of Environmental Management Plan.
- 6. This approval shall be treated cancelled if any of the conditions, mentioned in para-5 above is violated. In follow up of the cancellation of this approval prosecution under the provision of Pakistan Environmental Protection Act, 1997 will be initiated against the proponent.
- The proponent shall be liable for compliance of Regulations 13, 14 and 18 of ELA/IEE Regulation, 2000.
- 8. The proponent shall be liable for compliance of Regulations 17 of EIA/IEE Regulation, 2000, which permits the authority i.e. Environmental Protection Agency to enter, inspect and monitor the development of the project so that the conditions are effectively monitored.
- This approval does not absolve the proponent of the duty to obtain any other approval or coasent that may be required under any other law in force.
- 10. All the environmental conditions of this approval will be incorporated in the terms and conditions of tender document and will be component of health safety and environment policy in the project for commitment and compliance.

11. Any further condition may be levied by the EPA Sindh ally development stage, project which would be complied by the proponent in letter depoil.

lacem Ahmed Mughal Director General



DL Addi Item No. 2

System Studies

All electrical distribution network require system studies before finalizing design and its installation. Regulations as mentioned in NEPRA Grid/Distribution code for planning shall be considered to conform to regulatory standards in different voltages level. System studies are being adopted by using ETAP software.

DHAC electrical network is being designed based on engineering design parameters, since DHAC South is being developed at present hence studies being carried out for DHAC South only. For DHAC North and DHAC South Extension it shall be performed later as per development strategy.

Sample of MV/LV voltage drop sheets, ETAP losses report and load flow analysis of few sectors on internal infrastructure electricity connectivity for DHAC South are as below:-



Voltage Drop Sheet Sec 7 A

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ETAP MV Load Flow (Branch Losses Summary Report) Sec 7 A

Project	DCK Segar 14-C	, .	ETAP ·		Pagu.	I
Location:	DCK		19 G I C	·	Date:	10-02-2023
Contract					SM	
Engineur	Osmani and Company Pet. Ltd.	•	Sauly Cause LIF		Revision:	Bare
Filesamec	SECTOR IA MIVETAP		,		Config.:	Nomal

Breach Losses Semmeny Report

	Frem-Te	Den Flore	To-Press	Das Flow	Lox	ia	% Bes!	dip	Vd N. Dose
Brack ID	704	Mar	70%	More	w	low	Frenz	T.	ás. Varng
CA4::37	2.925	2552	-2.9£T	-2.541	99	103	100.0	£9 7	0.30
CPF-180	3.974	2 545	-3 945	-2577	10.t	10.5	100.0	\$2.7	0.30
Caldesul	4.961	-2.572	1,254	2 573	7.1	1.6	29.6	\$2 ?	ĉú\$
CTN=562	743	-2395	3.635	1334	Lg	1.4	90.€	3 22	€os
GW:59?	4271	-2194	3.580	2195	1.3	1.1	193	经	6.64
Cable 979	1061	1 617	-3.032	-1 935	24	10	99.5	\$9.4	#Q.6
C-N-201	1728	1745	2.730	-1.765	. 1.1	0.9	99.4	\$9.4	0.04
CARRO	1401	1 223	-1401	-1 557	1.0	1.4	\$24	123	120
C/AP404	1 122	1.37?	-1.121	-1 FTE	· 1.3	11	22,3	29.2	100
C48:406	1 \$25	1 183	-1 219	4 133	1.0	0.2	922	29.2	0,04
CTATOL	1.531	33%5	-1.531	-0.954	ŧ.o	ů.	992	59 I	9.01
CFNFQX	1,201	0.744	-1 102	-8 754	2.0	40	99.1	\$9.3	0.00
Caldedito	-2901	4.184	0.903	#.EJE	. 33	0.2	29. 1	50 1	tùb
Callest);	-0.535	-0.276	122.0	0.373	21	ěi	#2. 1	95 (ens
Califolis	1914	-2510	1.91T	2541	14	2.0	926	\$9 7	6.07
Chiefif	1 636	2359	-3 £34	-2360	16	1.3	926	12.5	eas
CR400	7731	4.173	1.355	\$173	. 15	11	925	** 5	0.03
Criteria	. 1001	1 921	-3.650	-1.930	17	1.5	52.5	194	€.0€
Chieca	-1.733	-1 750	1757	1.790	4.1	10	29.4	86.4	30.6
CiN:623	1.440	1.534	143	4 257	Q.2	27	99.4	294	8.04
CHECH	1.129	1.343	-3.127	기 2 5 0	15	1.3	19.4	593	20.0
CTATES	1.825	1.156	-1.527	-1.155	0.4	03	92.3	\$9.5	603
Callances	-154)	-1,003	1,541	£00 t	93	ů.	19.3	59.3	cor
Caltaria?	1.203	0 779	-1,261	-0.770	0.2	0.1	19.1	\$93	603
CALADI	0.944	2413	-0.943	-0615	02	92	52)	59 2	tod
C4Ha629	0 590	0.430	-0 550	-0 490	Ċí	0.1	79.2	99.2	. 6.01
C-H-64	0213	8,263	-0.513	-0.20	98	0.0	12.7	59.2	0.05
C254z645	0.320	0.131	-0.390	-0.135	σa	20	92. 1	19.1	0.05
PMUTA-01	0.100	2154	-0.258	-0.135	1.2	2.6	923	\$9.9	0.65
ne wa	-0.309	-0.121	1320	0 201	25	104	100.0	19 4	220
PACE 24.00	-0.297	-0.125	0.301	0.195	1.9	97	100.1	50 5	25.0
PLUTA OF	-0.177	-0.173	0.379	0.535	1.6	23	100.4	S9 6	0.77
PACU TA-OS	-0.273	4175	0.276	0.171	1.6	R1	1004	20.6	0.72
SMUTA-05	0.105	£21.0	-5 203	-0.138	10	10.0	99.6	160.1	45.0
PART TANT	4115	-0.125	0.517	2 204	1!	52.2	(00.0	\$9 €	0.51



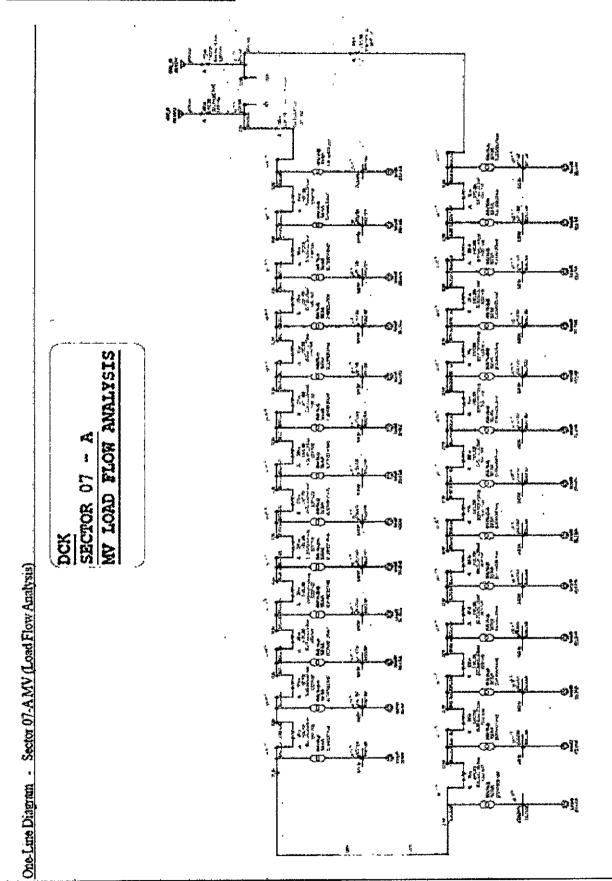
Project DCK Sector 14-C Page FTIP DCK 190 (0) Focauco: Deca 10-02-00.1 Contract 5N: Zagideer. Original and Company Port Last Advistor: Bass Study Case: LP SECTOR PANY ETAP Fileson Consig.; N:ceal

	Francis.		Yn-Fran		Les		4 Dar	-	Vd N Desc
Brand ID	NOV.	News Adver	**W	Mary States	FM.	Jeon.	Frame	Tip.	ås Vrang
PLOUTALOS	4131	4 774	¢ tit	0 213	34	123	171	124	Ģ.J
nei iloi	411	\$ 15 \$	421-	023	11	10.5	129	₩.	4.5
NEC TA-IC	4277	专门具	417	0.120	16	\$1	1001	193	φ.
MU TA-II	-4.277	-0.17 1	0 279	0 173	1.#	\$.2	100 4	594	4.7
MITTA-13	431	.0.1%	0185	0.135	17	1.1	\$29	122	4.
NOT TAILS	-0.297	काङ	0 101	££1 Q	1,2	9 7	49.9	10.3	9.4
MQ15614	-Q31#	-0.191	disi	0 209	11	11.2	#9.d	19.1	0.4
MUTAは	4343	0.22.3	4110	-0 110	7.5	11.6	49,3	894	¢.
neg tale	ক্ষঃ .	-0.145	0251	0 144	14	71	100.1	20.3	Ċ.
1.53 Ta-17	0.290	CHE	-0149	413	14	21	49.5	19.7	Ģ.
MITALI	·\$253	-0.174	0 223	0.122	1.7	14	100.0	191	Q .
W.778	4141	0.201	43	4) 51	11	10.0	69.3	191	0,5
MITAG	4344	-0213	DIAT	0 224	16	12.0	90 S	101	0.
MAI TA-CE/I	A 132	-2 179	0.290	6 tab	- 18	Þξ	99,T	691	Ç.4
MUTACEMI	4791	क्षा	0291	0 120	1,\$	22	100.1	82.€	04
101 14CB(1	4413	\$ 202.0	-0117	·0 (\$\$	31	401	99 A	1920	0.1
MUTACERI	4121	4119	0.324	0211	13	11.4	79.4	\$9 :	ą,
ndita-ces	-0 101	-0.14\$	0345	0 153	1.0	iā i	927	12 1	0.
MUTA-CEAN .	়	4174	\$ KI	0133	1.7	11	1000	193	Q,
					67 1	MAA			

[•] Tala Transmission Line includes Series Copacitus.



MV Load Flow Analysis Sec 7 A





ETAP LV Load Flow (Branch Losses Summary Report) Sec 7 A

Project			ETAP		Page	1
Locations			1901C ·	•	Date	10-02-2023
Connect					233.	
Engineer:			Study Cases: LIF	•	Revision:	Sans
Filozonac	SECTOR JAIN ETAP	i.	Table of the same	•	Config.:	Noncal

Research Losses Summert Report

	Fram-Ta	Eas More	Ta-France	Zaz Floo	Les	3 6	64 Day	likap	Vi S Desc
Branch ID	NOV	Mrse	74.	Mres	ŁW:	pos.	Fram	T»	in Vinne
احتا	0.00T	0.050	-0.004	-0.058	12	10	100.0	<i>\$</i> ? ∗	261
Calle-10	0.042	6.02°	-0.043	-0.026	6.9	26	573	985	1.25
Calif.p-100	-6 100	-2022	0.101	0.063	1.1	1.1	97.3	100.0	2,75
Ø₩=104	*3181	-0.039	0.06€	0.040	. 11	2.5	\$5.2	\$20	23)
QH+W	-0.0ST	-0.035	0.053	5636	13	0.5	25.6	***	1,05
Cities (d)	-2104	4:00 t	0 035	0.050	1 \$	è s	122	1000	141
Califo-159	-2.06:	-0016	0.063	0.039	1,9	97	95 2	57.7	236
Callesia	-0.797	-0 051	0 101	2810	24	44	\$7.7	29.0	314
Calle-(4)	-065)	-2015	0.05%	0035	0.2	63	\$54	\$7.0	EAT
CHP1ft	£115	-0.0*1	0111	0.072	. 27	10	97.9	经多	2.03
CHAIN	-1.60	-0.038	0 052	0029	1.£	25	\$5.5	130	2.43
Calla-148	-5 509	-0.066	0.101	120.0	2.1	112	920	603	1.53
GH-ITSI	-9:461	-0.032	1061	0.039	1.3	75	451	17. 2	201
Cable-(792	AlM	-0 C74	ó 123	0075	3.4	1.1	97.2	197	2.45
Collectifi	-5 057	-0.035	0.051	2036	1,1	94	\$53	96.9	1.49
CANALITES	48115	-0.071	0 tt\$	0.073	1.7	1.3	¢€\$	197	2.76
CAN-LTSS	-5.043	-0 00%	0.044	0.007	0.0	Q3	166	629	1.61
QN+11%	-8:101	-0022	0.101	0.057	1.€	2.6	423	10.7	£41
Calle-1757	-0.102	-0.012	0.029	2012	. 61	۵I	\$5.5	169	ēAi
CHAIN	-0 114	-0.071	0 112	0.071	· 5.8	14	\$6.9	101	145
Cell>1759	-2048	-0.029	0.042	0.030	Q\$	91	568	725	. 1.64
CAN-1100	-0.105	-0045	الراق ق	0.045	1.6	26	98.5	202	1.31
Christ	-0.041	-0.025	4041	0 005	65	92	\$6.4	\$1.A	691
Calle I Till	-0.102	-0.054	0.304	0 045	2.8	15	37.4	59.2	236
CH-170	2043	-0.036	0041	0.037	ć\$	\$!	\$5.4	530	146
GN>1764	-4.1¢1	-0.011	0.151	0.057	27	to	920	iodi	2.23
CHA-1769	-0.553	-0013	0.029	210.0	0.3	āj	97.1	si.	1.00
California (California California	457	-0042	166	9 050	10	\$7	蚀	160.5	2.23
Called TOT	4.543	-2029	0.042	û 03 9	0.9	2.5	47.2	12.6	LAS
Chette	4.551	-0 C31	5 036	0.053	1.7	26	\$2.6	130.5	L75
CM-ICM	111	0.062	-0 109	-0.057	25	99	100.0	620	1.53
California (196	-\$ 105	-0.055	5 101	0.065	2.2	10	\$7.5	60.0	231
C-W=1798	A 10f	-0.056	0.111	2652	<u>£</u> §	10	\$5.5	\$9.9	451
C:9>1100	-ā 101	-8.053	0 105	0.054	13	12	97.1	\$9.9	2.87
CiS-tini	413	-0 108	6 175	0.169	6.4	0.2	\$9. <i>\$</i>	29.7	015

Project		eva) [,]	Pega	2
Location:		19414	Due	10-00-2023
Contract			nt.	
Engineer.		Study Case LE	Recident	Zu∗
Filetona	sector talvetap		Cooling.:	Normal
		<u>'</u>		

	Frem-Te B	ne Carr	Sa-Franc R	ue Tum	Lea	10 16	W Des	-stags	. W
Brack ID	74	. m. meta. Yek	PW.	Mrss	<i>1862</i> . • • • • • • • • • • • • • • • • • • •	Trans	Frank	To	N Cong in Vang
Colo-101	,51 55	4.057	álst	100	(4	11	Marinest Co.	**************************************	30000000000000000000000000000000000000
Cole-1113	-4111	-ዕ ዕግጋ	0114	9 915	19	97	3 4. }	39 6	; Jak
Crisia-1314	-2115	Grog.	5315	0071	27	10	\$7.3	46 €	2.01
Celle-1113	.0117	-0 071	0 101	0 0.4	+0	15	96.7	59 6	2.01
EAN-1510	Ath	-2.037	6139	9 025	74	1.7	52.5	5 <u>0</u> 0	3.47
InNe-(12)	4,1\$7	-0.347	2255	0.07#	12	2.2	49.1	39 P	040
čálo I Ca	4437	.0.037	\$ 060	0 037	92	2.1	1604	J&\$ 9	020
Cel = 1 (2)	0.032	-8927	0050	0.037	Ģē	91	100.1	100 5	0.6
idis 10	તો દેશ	ងលា	5004	9 011	22	0:	29.7	165.0	041
CNHIG	200	-0 9 4‡	\$ 671	₫ Qda	\$ 6	42	100.0	120 7	0.71
Cal-IIQ	441	-044	0.041	\$ 023	23	0,1	111	19 i	0,3%
CONTROL	8657	410 a.	40"4	\$ 043	14	0.4	69.6	100.7	1 13
Selwi 164	-\$@4	-\$ 6 51	5.034	* 011	44	01	\$2.6	191	6.50
Maring	4.07	40 043	201	204	1,2	\$4	50.1	100.7	120
Maritot	<.000	2040	-10.5	4049	94	0.2	ica#	1721	941
SHART V	410	नो उद्देश	\$179	<u> 0 108</u>	#\$	0¢	100 6	101.3	2.50
Molen	4.004	0 623	40.334	4011	¢¢	Ď\$:00 €	100	. 02
inter	404	-0 025	0.041	0075	46	0.2	142	\$7.4	Lti
Me27	*5443	±0.026	ō Çaş	9 026	44	03	53.2	16. 2	1.01
34 6 1	-2100	1M 2-	5 E04	\$ C41	4.	1.\$	94. 2	*9 \$	141
الملاث	4	-001)	0165	\$046	i 1	<u>4</u> 4	#11	经票	1.51
ideti	481	1140.	9119	0072	4.4	1.6	44.6	\$9 B	125
Maria S	400	čzo g,	0.048	& JNG	a 1	0.5	7.28	47 \$	141
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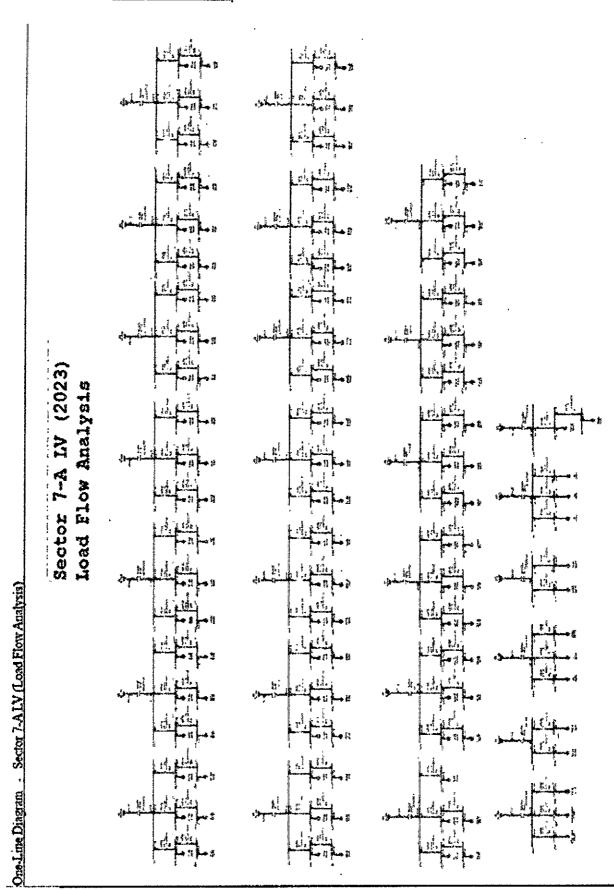
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^{*} This Transmission Lina includes Saries Capacities

LV Load Flow Analysis Sec 7 A





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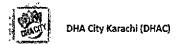


ETAP MV Load Flow (Branch Losses Summary Report) Sec 14 C

Project	DCK Sector 14-C		ezap .	Poget fi
Location	DCK	•	19 9.1C	Deže: 06-02-2023
Contact		:	•	SN:
Engineer:	Octobri and Company Pet. Ltd.	• • :	Shuly Great EP	Revision: Ecre
Florence	SECTIOR-14C-MV		Marie Carlo	Config.: Nonnal

Branch Losses Sampeary Report

	r							Va	
	Fram-Ta	Bus Hann	To Free	Eas Flow	Ler	: : :::	* B= 7	% Drag	
Branch ID	74A	Moss	MA	L'esr	F#	las-	Fezza	Te	ia Vang
C-7-25.	1.994	159	2:02.	-2544	15.6	174	100.0	\$9.5	0.50
Califolia (Califolia)	123.	1,377	-1663	-2 522	t4.2	5 4 0	100.0	1935	0.45
C-R-SM	-3.668	-2351	r. Med	2311	2.7	2?	50.5	\$9.3	000
C-Areas	7.191	2.501	3,393	2,500	4.5	‡3	50.5	29 5	COS
C-N-503	-5.024	-1 001	3.025	2.024	2.2	ts	99.4	125	O ČŽ
Cable##	2.7G\$,	1 79%	-2.WE	4 28	1,1	<u>i</u> 4	39.4	401	10.0
CVN:-601	1.427	1.575	-1:27	-1 574	5.5	24	99.1	59.3	6,621
Caleon	2 115	1.362	-2100	2b3,1-	1,1	Q.P	\$0,5	223	005
Calletta	1.230	1117	-3.829	-1.116	1.1	1.0	\$0.5	192	0.0*
CHION	1.522	9 293	-1.522	-0.994	4.3	0.2	\$9.2	19.2	0.02
C-Mr605	120	0 807	-1.241	ame	5.4	0.4	89.2	\$2.1	0.04
CiNeDO	3100	0.535	-0.915	-0.295	23	0.3	90.3	\$21	4.01
CHAN	450	1.227	9 611	0.207	0.1	01	90.1	99.1	0.03
Cr5L-639	-0.291	281 O-	0.391	2.152	0.0	0.0	491	\$91	926
Castafit	-7511	731	1012	2.544	6 \$	5.7	103	00 t	G19
Cಡುನ17	1. 6 P1	1.359	-1.636	-2.35?	14	±\$	39.5	59.2	6.07
CHARM	-3.348	-1 174	3.352	2 177	14	19	59.1	59.2	0 22
Calens	2.643	1 979	-1.046	-1 973	2.5	1.7	\$2.1	\$2.1	0.01
Calletti 1	-2.752	-1.757	2.753	1.751	1 42	1.4	48.0	59. i	0.05
Calle (2)	2.435	1 511	443	-1.531	6.1	0 !	920	699	001
Grister24	2.125	1.250	-2.124	-1 379	1.1	1.6	920	\$2.9	0.04
Callessia	1.225	1195	-1.624	-1.114	0.6	0.5	SE.9	42.9	0.04
Colorest	.3.543	1.021	1.541	1.001	3.6	05	SED	\$20	Ď.04
CANADI	1.200	0.77\$	-1 200	-0.771	2.1	0.1	229	52 #	5.01
California	0943	0.613	-9.043	46:1	₹2	02	929	91	203
CARRON	9.695	0 €39	-3.650	-0.429	93	42	421	51.3	G.04
ट्यंत्रस्थ	51 U	6.323	-9313	-0.255	ø'0	¢ŝ	428	41	600
PAGE 14C-07	2785	-0.125	a.1G1	0 195	1.9	7	65.2	€9.2	0.63
PMU HC18	-0.101	-O. ITE	1,205	0.148	2.0	131	92.7	49 1	0.57
Ph&I 14C-14	-5292	-0 185	0.300	0.196	Q. F	9.7	\$27	1 62	ČÁS
Pha: 140-27	on:	-0.130	1191	0.198	5.5	9.5	50. 7	1.02	0.65
PAGE LICES	-5.277	-D 171	<u> </u>	0.135	1.6	25	1000	\$9.5	6.75
PMI 14C-19	-0.273	-0171	B.27\$	h.110	16	¥.5	1001	\$87	0.76
nuica	2,505	C ISE	-2501	-C 112	1.0	100	60.5	100 1	053
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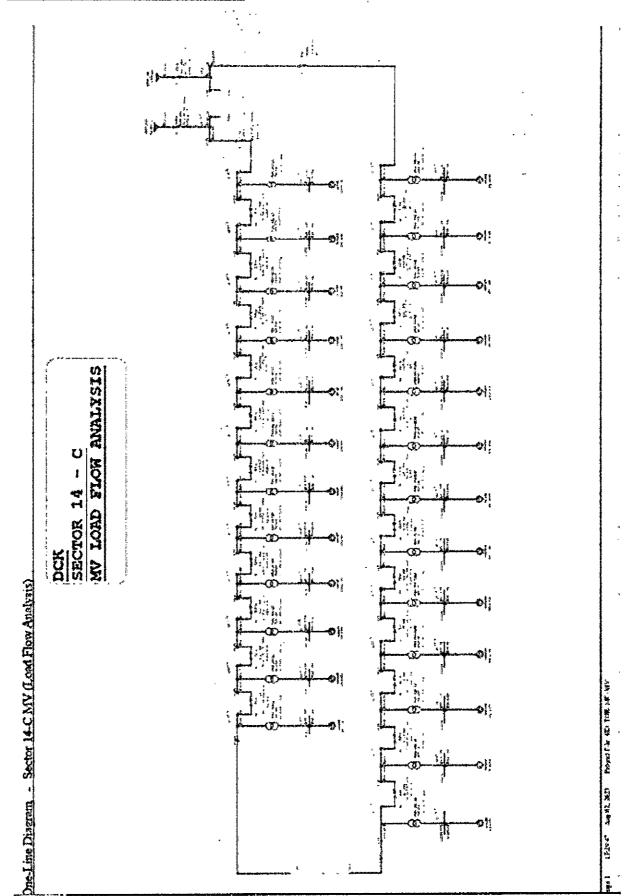


Project	DCX Sector 14-C		ETIP	Page	1
Location	DC3	• •	nek -	Dute	08-02-2023
Contract			, , , , , , , , , , , , , , , , , , ,	SN:	
Erginar:	Omizzi and Company Pet. Ltd.		Study Caux LP	Landslow:	Sess
Fileans	Sector-140-MV	-	Manager State Char	Config.:	Negual

	Fram-Ta Data Flav		Ty-France		<u>Lac</u>		ti Res	NA Is Desgr	
Branch ID	N	Lies	MV	Muse	NA NA	lyw	7cm	To an an an an an an an an an an an an an	in Venn
nau ing ia	414	.02;}	6,124	0 220	11	171	1,82	72 \$	ē.
naica	vni	-0.1*4	0 (3)	0.135	17	17	# 45	\$4.5	6.7
hau ikc es ai	-2371	·01.2	6.274	9 (20	"∉	£3	100.0	10.5	6.7
PLOV INCOI	2111	4177	0 174	9 178	1#	11	1641	79.5	Q 1
nau iacas	4315	AME	2317	\$ 306	21	101	92.9	\$9 4	0.5
PAU I (C.O)	4111	0.001	0735	6 83 3	1,4	(2)	29 7	49.3	0.1
PACI INC.03	ગાા	1214.	0.117	P 20#	1.1	198	149	191	41
fiau lecos	4:36	4176	0.135	0 145	17	11	***	59.2	0.5
MAT (4C-03	4121	4 199	0.104	6411	21	\$1.4	20.6	\$ 0.1	Q.A
na 1950)	4111	ф 174	0 233	0 12 1	17	14	\$24	44	ō T
naici	작가	4141	0122	602 8	12	11.2	526	0.1	2.4
no isou	.> ***	-0.179	0 191	0 152	1\$	≇1	99 3	(9)	44
NAT NE CSAS	419	φ 1 2 4	-0.19T	4 144	1.\$	\$7	髓色	50.5	04
na recia	0345	1524	-0110	4210	1\$	127	329	192	4.3
naciesas	松林	-0 1.59	0 237	0 144	1#	?.3	6 6 2	31.9	\$.
hay ivo-clos	-0101	.Q 191	0.110	0 201	29	124	数:	20 D	04
MU NCCIO	6314	02%	-0114	10 LSi	2:	121	n.	\$93	6.
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^{*} This Transprincies Line includes Series Capacites.

MV Load Flow Analysis Sec 14 C





ETAP LV Load Flow (Branch Losses Summary Report) Sec 14 C

Project			ETA		Page	1
Location:			19.0.1C	•	Due	06-25-2023
Contract:					578-	
Engineer:			Study Case: LF		Ravision:	Bess .
Filmans	SECTOR 14-CLV ETAP	e I	140,000		Config.:	Namal

Branch Loises Summary Report

	From Is Burfler		To-Frame Buy Flore		Lega		15 Best Vallage		Vd M Deep
Branch ID	MW	Mer	Filk	Mezr	17	No.	Free	Te	in Venez
Celir-!	0.671	2011	-2.054	-1633	16	24	1321	63.4	1.35
<u>ರಚಿಕ</u> ್ಕಾರಿ	0.985	0 031	-0.055	-0.031	٩'n	0.3	95,5	95.2	121
Ciliates	401.6-	-2.047	2100	226.0	0.2	6.1	99.S	C9 T	619
Cable-104	-5.574	-0.046	6875	0.045	1.5	0.5	\$4.0	\$7.5	1 49
CeNs-167	-0.047	-0.019	0043	0 970	2.0	03	95,0	64.1	1.61
Cála-Kii	-0.105	-0.005	0.109	0.626	3 8	1.8	9€.6	59,7	1.01
C65a-159	-0 364	-0.040	2065	0 040	13	0.5	95.7	\$7.A	F van
Crixit-140	-9:101	-0.657	als	0.061	M	1.1	\$**	99.0	2.44
Cábla-163	-0.54T	-0.039	0.042	0.926	6.5	0.2	95.	SEP	1 10
Calle-154	-0.105	-c.045	2109	0.056	5.5	1,3	\$£ 9	59 9	194
California	-2.54)	-0626	2043	0.627	â.S	0.3	95.1	272	1.66
Cèle1f1	-0.507	-0 0±2	0 tC3	0 041	14	8.9	\$7.2	çê p	205
Calle-1751	-0.067	-8.943	9,022	0.643	1.3	0.4	6€.6	£#1	1.51
Cable-1752	+01:0-	-0.964	0.106	0 955	1.5	0.5	\$5.1	1.001	1.45
CSN-1753	-0.534	-0.022	0.035	0.032	ů1	to	şed	\$2.5	0:61
Cala-1754	-0.525	-0.051	0.067	0.654	14	6.5	42.6	100.1	14.1
Califo-1753	-0.064	-0.645	2845	ú št ô	LI	0.4	C6.5	21.0	141
Cable-1796	-8.10f .	-0 061	0 103	0.061	24	6.9	920	100.1	206
Calke-1757	-0.034	-0.021	6834	0.622	0.4	22	飘	100.1	101
Cable-1753	-0.073	-0.046	0.671	0.045	2.1	. 90	100.1	100.2	611
C135=1339	-3.062	-0.643	0.975	0.043	1.9	0.7	\$£1	68.5	2.52
Caldo 1760	-0 115	-0.071	0.115	9 671	15	01	\$1.5	100.2	1.75
Calde-1761	-0.05]	-0 093	1200	222	Дť	0.2	\$\$.7	84.A	0.94
CW+DE	-2.043	-0.055	0.002	0.056	2.7	15	96.6	100.2	2.56
CeNa-170	-b 365	itád-	9.831	3031	5,0	04	\$7.3	\$9 5	1.47
Calc 1764	-0,101	-0 052	2 10?	8.043	1.4	às	29.0	100.2	f.21
C145-1765	-0.043	-0.01"	6943	2017	25	22	珠!	920	224
Calls-1766	-0.073	-B 04£	2071	0.04S	1.0	9.4	59.0	100.7	1.17
Calelier	-2001	-0 041	2005	\$ 641	12	£.#	95. 1	\$7 \$	1.54
California (-0.10)	480.04	Q 106	8.055	Į,	11	27.5	100.2	2.£1
CANa-1726	0 124	6 076	-8 121	-2075	5.3	1.1	69,7	675	2.19
CHETM	-0.113	-0.059	2116	\$.07i	5.5	14	97.5	100.2	2.92
CaleITM	-0.112	-2.059	0115	\$071	4.4	16	\$51	100.2	333
Calcum	-0.650	-0.031	5.951	2021	27	0.7	620	100.2	1.20
C251-1804	-0.121	-0.059	ē ilš	9.075	4.0	1.4	96.9	106.0	3 09

Project FIA? Page 19115 Location 04-05-0003 Dex Contract \$N Engineer And ton 241 Senty Case LF Filesone Sector 14-C LV ETAP Config.: Normal

	Trans To Ban Flore		To-Freez Day Flow		Listi		14 Ses Voltage		Vá N Deg	
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Wo:104	-\$ 567	-0 <u>0</u> 41	tMi	0041	l c	đ4	91 1	teoo	1.	
\$151a36C	-0 11 <u>3</u>	40.0	0 114	99%	9.5	0.1	\$21	20.7	0.4	
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California i d	-4113	-白作時	0.812	0.020	12	01	920	\$2. 7	L	
SVANETS	-\$ i t#	0.010	2 116	0.971	1, 5	11	\$20	100.4	2,	
abi-42a	-0131	40	4121	₽ 6. 4	13	12	150	1601	3.	
Color (S2)	£ 024	-00:3	¢ 224	06:5	41	5 0	100.1	160.4	ð:	
564-1524	-5131	-0 055	ā tāt	0.036	14	66	22.1	EQ 9	¢.	
Meil 19	416	-3 103	0.171	0.897	1.1	20	90.1	54.0	1:	
Mailli	42.13T	-0.057	115\$	\$100	4.≸	41	\$2 6	520	Ò.	
5504a-1357	410	-6 977	ú 1 <i>3</i> \$	0 076	19	13	\$1.6	69.9	14	
ide (IS)	6,943	0 021	কলা	-0.028	l Æ	0.2	94 0	(\$2	Ġ.	
DAMPS	444)	-\$ Q37°	0,043	¢ ģ1"	06	0.5	\$7.\$	657	Į.	
20(+2)	400	-0 024	0.043	902.	3=	03	96 0	47 5	ŧ.	
idea idea	410	-6 044	0:104	0.014	15	11	\$7.5	700	2.	
N*11	-হথ্যা	-0 003	o dist	0.022	♦	43	\$ \$.†	\$7.5	ķ .	
Nen	401	ង សុ៖	4101	0.045	16	10	e: A	18.9	3.	
Calle 33	A 解	-6021	tes	0.013	ó t	43	钱业	96.7	ķ.	
:Meds	-0110	-0041	0 114	p à sp	4.5	1.5	\$47	£99	3:	
Little #	2,597	0 659	-0.09)	-0.051	£ 9	1.4	ion i	14.6	3.	
Calla (C)	-0.004	-0 040	0.006	ŭ 6 11	2.0	4"	\$7.2	60.0	3:	
C&I+-572	-0 114	9 6.4	0.115	6,070	24	41	\$\$	1001	Q.	
Madi	45517	4 629	0 04 \$	2 630	12	4.4	\$1.0	群士	2	
Disks-594	-0.025	-0011	0 103	0.043	15	1.3	\$21	100.1	\$.	
CxXI+979	-0 034	-0.001	9.036	0 011	34	41	*4.7	977	0.	
Cares	000	0 427	400	D06	ĝ.s	21	94.€	(A	\$.	
Cable-600	40-073	.0 B44	0.074	8 848	24	47	žų.	120.1	2.	
Calles))	4.304	-0.040	2.044	9 040	13	4.5	\$7. \$	523	l.	
Called M	-0 505	10 052	2005	4011	ė\$	0,2	99.5	1000	¢.	
Cals-627	4 ₩1	-6031	0 045	06:3	54	62	54. 7	***	1-	
Colodia	-\$ 101	-0.017	e us	noi#	6.1	1.#	**	120.6	1.	
Caller 611	490	-0.010	2043	6012	Q þ	43	41.4	#£ ?	8.	
294s-412	-0 007	-0.050	0.055	8 040	15	0.5	\$£7	100.0	1.	
Cabledia	~0.083	:0 e);	0.033	1100	11	24	\$2.7	:\$2	1.	
Mello:	-0 (1	-2018	<u> </u>	250 è	17	24	16.S	10.3	ŧ.	
CM+75	.0053	-0413	0.033	2011	1.≱	4.5	164	** \$	2	



Project.

Location

Costract

Caginau.

Filazzoak SECTOR 14-CLV ETAP TIM

178.10

Story Cauce Cd. -

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Dyr: (4-13-XI)

SM

Revision'

County : Normal

	From Di Bio Flore		To-Strone Base Floor		lauri		% Der Wilder		Vd N Desc	
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Calie-707	404	-D 924	\$ 043	会位さ	2.2	23	463	#21	144	
Calle 1/3	-0 los	.0 053	0 (0)	6 343	19	91	52 J	44 2	1 6	
Calletts	494	4015	2,541	S 0:17	4	2.2	130	44.0	1.21	
Q065713	400	40 at	e 056	dite	11	01	\$£ 0	100 2	211	
Cale 111	200	4016	204)	9 67.7	94	0.2	94 3	520	121	
Odds-716	ind.	9 331	9.0%	9 019	22	9.1	\$10	100.2	211	
Q061#	-5/043	-9 034	\$.0±1	227	46	21	\$ 4 4	47.6	14:	
CAL-70	-0103	4001	0.096	9016	2.8	10	\$? 5	1021	23	
Calle-711	4.64	4016	2043	9 010	Q.E	2.3	\$7 2	skē	12	
Čeka-114	-\$10 <u>1</u>	.0041	2 101	800	15	0,6	121	100.0	1 41	
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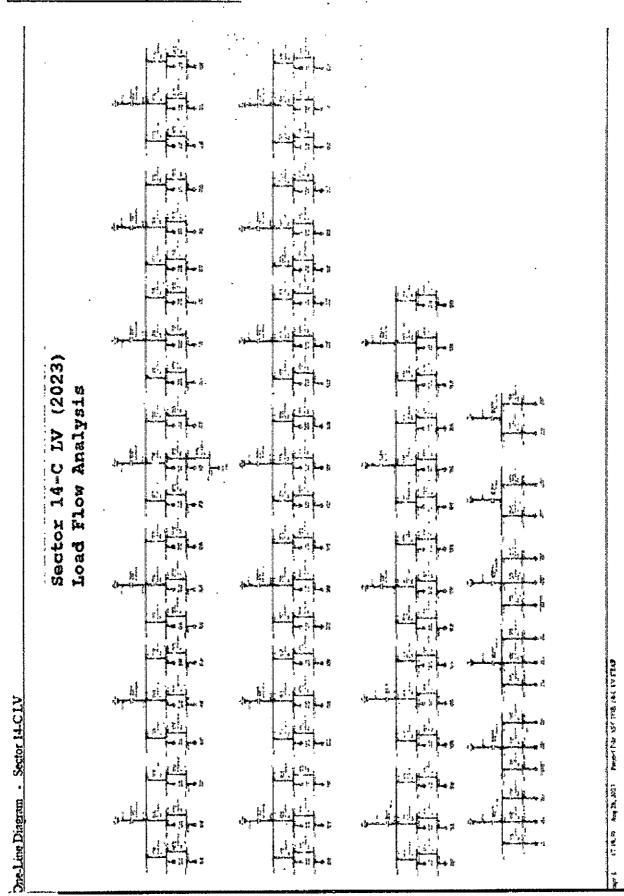
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^{*}This Transmission Line includes Series Capacitus.

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LV Load Flow Analysis Sec 14 C



DL Addl item No. 3

Patrolling and Inspection Procedure

1. PATROLLING AND INSPECTION PROCEDURE

- Mobile Patrolling team will be established with qualified staff to take the task of routine inspection.
- Routine day/Night patrolling of underground cable route of EHV/MV/LV lines will be carried out by the designated staff.
- The inspection sheet will be filled for Installed line/Equipment/Material inspection.
- The inspection teams/patrolling team will notify any emergency condition through mobile phones and/or UHF sets (if provided) to maintenance crew for immediate remedial actions.
- The team will also contact load dispatch center and control room for any emergency shutdown.
- The patrolling team will also look for any encroachments on the route of cables and distribution lines.
- Any abnormality in installed equipment/material like unsafe condition or/and theft will be immediately notified.
- Any work at site for electrical network that is being carried out by the contractor or
 O&M operator will also be checked as per work permit.
- The standard operating procedure (SOP) will be prepared for patrolling teams.

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ANNEX - F-4

MAINTENANCE PLANS AND PROCEDURES

The maintenance plans and procedures are appended herein below.



DL Addl item No. 4

Maintenance Plans and Procedures

1. Maintenance Plans and Procedures

Maintenance Plan shall be prepared to ensure functionality, reliability and long term usage of equipment. Main purpose of maintenance is to keep equipment in functional condition and reduce cost of repair/replacement. These maintenance shall be as per the recommended plan and procedure as described by the manufacturer. However entire maintenance plan shall be prepared on yearly basis that is categorized as:-

- Annual Maintenance Plan. This shall be planned for complete maintenance of
 electrical distribution equipment in line with manufacturer guidelines through qualified
 trained staff or by manufacturer in case of special equipment. This plan shall spread
 during low electric power consumption period ideally from Nov Feb of every financial
 year or as per the recommendation of manufacturer for the special equipment.
- Preventive Maintenance Plan. This plan is regular inspection and service of equipment to detect potential problems and to take proper corrective measures it is spread throughout the year. In addition where the circuits are overloaded, balancing of distribution network, shifting of network where required, upgradation/rehabilitation etc.
- Corrective Maintenance Plan. It is also known as reactive maintenance and is carried out on 24/7 basis to react to any fault arising in the network that causes outage or low/high voltage or any unsafe condition arising at any time. This is carried out by trained staff either own or of third party duly equipped with mobile vehicles, necessary spares, PPE/SPE all the times.

DHAC (DISCO) shall have a separate department of Operation and Maintenance that will issue all the Maintenance Plan and Procedures time to time.



The main objective of maintenance plan and procedure shall be aimed to comply NEPRA Performance Standards code for System Average Interruption Frequency Index (SAIFI) and System Average Interruption Duration Index (SAIDI) standards. These shall be calculated as under:-

SAIF

System Average Interruption Frequency = Index (SAIFI) Total annual number of all Consumer Power Supply Interruptions

Total number of consumers served by the distribution company in a given year

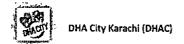
<u>SAIDI</u>

System Average minutes Interruption Duration = Index (SAIDI) Aggregate sum of all Consumer Power Supply Interruption durations in

Total number of consumers served by the distribution company in a given year

To ensure the above following activities shall take place to ensure compliance to the Maintenance Plan and Procedure that shall be developed:-

- Planned shutdown shall be intimated to all affected consumers prior to implementation with duration.
- Other than planned shutdown in case of corrective maintenance duration shall be kept minimum to restore power supply.
- Safety protocols shall be strictly followed and line isolation clearance prior to work from operation dept.
- Authorization to work for designated qualified team.
- Supervision of work at site.



- All outages shall be recorded for its duration for submission of SAIFI/SAIDI report to NEPRA.
- The grid station will be manned by switch board operators and therefore 24/7 monitoring
 will be in place.
- The daily monitoring of equipment will be carried out as per following sample:
 Hourly reading of Ammeter, Voltmeter and energy meters, Temperature, pressure etc
 will be carried out by Switch Board Operators (SBO)
- The SCADA system will also record all values necessary and transients to centralized
 Load Dispatch Centre (LDC).
- On the basis of monitoring by SBO and SCADA, maintenance will be carried out;
 however routine maintenance of all equipment will be carried out as per recommendations of manufacturer.
- The distribution system design with ample capacity for load transfer and to take any element out of service due to planned and emergency maintenance conditions.
- Maintenance team will be available to take care of emergency and planned routine maintenance.
- The testing relays will also be part of planned maintenance and schedule will be prepared as per recommendation of manufacturer.
- The standard operating procedure for maintenance will be prepared and will be implemented as per international codes and standards.

ANNEX - F-5

FAULT LOCATION AND TROUBLE-SHOOTING PROCEDURES

The procedure for fault location and trouble shooting is appended herein below.

DL AddI item No. 5

Fault Location and Troubleshooting Procedure

1. FAULT LOCATION AND TROUBLESHOOTING PROCEDURE

DHAC (DISCO) operation and maintenance department shall have qualified staff for fault location and troubleshooting. These skills shall be developed through extensive in-house/On-Job training to be given to all technical staff / engineers deputed to perform task.

All procedures shall be developed by the department, salient features are as under:-

- Teams will be deployed at fault location along with necessary equipment.
- All safety standards shall be ensured for men and material.
- The latest equipment with facility of pin pointing underground cable fault shall be available to minimize the maintenance time.
- Testing equipment for locating faults in CT, PT etc to check internal faults will be made available with qualified testing engineers.
- Team of engineers with different skills will be deployed for relay testing, breaker testing and Cable Testing.
- Automatic isolation of faulty portion will be done by relays / fuses.
- Route cause shall be performed to trouble shoot / rectify the reason of fault, this shall include:-
 - All loading shall be checked to avoid any overloading of circuits.
 - Earthing shall be checked.
 - Carburization shall be checked at transformers
 - Relay operation shall be checked.
 - Any damage to any element/cable shall be checked.

TRAINING AND DEVELOPMENT PROCEDURES

The details for the training and development procedures are appended herein below.

DL Addl item No. 6

Training and Development Procedures and Manuals

1. TRAINING AND DEVELOPMENT

Training facility shall be established for the development of technical staff at all levels along with other trainings for all levels that will attribute to the overall grooming of the DISCO team and contracted staff. Training shall comprise of Soft Skills and Technical skills. Procedures and Manuals shall be prepared before imparting training as per the equipment laid, new technologies, installation/testing procedures, operation and maintenance procedures, fault isolation and safety standards.

Yearly training plan shall be prepared with recurring training to ensure all staff are well conversant and trained to handle the equipment as per their work responsibility. All new enrolments shall go through training before being put to practical work.

Training shall be conducted as:-

- In house training facilities will be available to train employee, skilled professional and managers.
- Internal / external trainers shall be called to impart training and conduct workshops.
- Safety trainings will be conducted for top to bottom employees in routine and will be given top priority that will include use of PPE/SPE and all safety measures to be adopted to avoid any accident while working.
- Specialized training for equipment will be given by manufacturers.
- All special equipment of Grid System shall be covered for Grid team staff for its installation/testing/operation/maintenance/routine checks.
- All electrical unit of distribution network shall be covered in training for installation/testing.
- On-job training shall be imparted during installations of the equipment.
- Meter installation/testing for all types of meters shall be covered in training, including its reading/anomaly detection procedure/methods.

- Maintenance and operation manuals shall be available to train engineers/staff for following:
 - Overall maintenance and monitoring of the grid station + distribution system.
 - Circuit breakers, operating mechanism testing, routing maintenance.
 - Monitoring and testing of power transformer, current and voltage transformer and routine Maintenance.
 - o Protection relays.
 - o Operations indications, testing including control and indicating instruments.
 - o Distribution transformers switchgear and metering.
 - MV feeders and distribution lines lying and maintenance.
 - Pad mounted unit operation/maintenance
 - o .Feeder pillar box operation/maintenance.
 - c Ring Main Unit operation/maintenance.
 - Earthing systems installation and its routine testing and measurement.

Procedures and Manuals

All procedures and Manuals shall be prepared for the training and development of all staff /professionals/ engineers deputed to perform work or supervise any technical task within the ambit of DISCO.

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DL Addi item # 6 Training and Development

ANNEX - F-7

INFORMATION AND DOCUMENTS IN SUPPORT OF DISTRIBUTION EXPANSION AND INVESTMENT

Please refer to the information provided herein below.

DL Addl Item No. 7

Information And Documents in Support of Distribution Expansion And Investment

Details of this section to be referred to Item 16 (Type/ Technology, model technical details) document.

Sr. #	Description	Unit	Qty
1	3 core 400 mm² AL, XLPE / PVC / SWA / PVC 15 kV	Rm	57,570
2	(Excavation, Laying, Testing & commissioning)	Rm	57,570
3	3 core 300 mm² AL, XLPE / PVC / SWA / PVC 15 kV	Rm	43,352
4	(Excavation, Laying, Testing & commissioning)	Rm	43,352
5	Straight through joint, 3 Core 400 mm²	Sets	192
6	Straight through joint, 3 Core 300 mm²	Sets	145
7	Termination Kits 3 Core 400 mm²	Sets	24
8	Termination Kits 3 Core 300 mm²	Sets	46
9	HT Cable marker	Nos	1,010
10	Civil construction of MV switch room 15' x 15'	Nos	6
11	VCB Panel With Metering	Nos	24
12	PAD MOUNTED UNIT 500kVA	Nos	23
13	4 core 300 mm² Al, XLPE / PVC / SWA / PVC	Rm	27,600
14	(Excavation, Laying, Testing & commissioning)	Rm	27,600
15	4 core 150 mm² Al, XLPE / PVC / SWA / PVC	Rm	27,600
16	(Excavation, Laying , Testing & commissioning)	Rm	27,600
17	Termination kit 4 Core 300 mm²	Sets	276
18	Termination kit4 Core 150 mm²	Sets	276
19	Polymer Feeder pillar Box	Nos	276
20	Earthing	Jobs	338
21	Energy Meters	No's	3,970
22	Consumer Cable	Mtr	158,800

ANNEX - F-8

Type of Distribution system And configuration, Service territory, right of way, feeder maps

The type of distribution system and configuration, service territory, right of way and feeder maps are appended herein below.



DL Addl Item No. 8-d

Type of Distribution System

1. TYPE OF DISTRIBUTION SYSTEM

To ensure consistent and reliable supply to end consumer DHAC is designed on ring main distribution system where entire distribution shall be interconnected with n-1 contingency for 132kV Grid station and interlinking of 11kV distribution network. The HV/MV/LV Electrical distribution system shall comprise of voltage levels 132kV, 11kV and 400/220 V. The distribution system shall be entirely underground.

The 132 kV transmission lines shall be laid under ground between the grid stations. The 132 kV cable shall be single core (XLPE type). The 132kV grid station shall be indoor GIS type.

The distribution network comprises of 11kV Feeders emanating from 1250A VCB panel at Grid Station to either of following:-

- 11kV switch room having 400/5 630A VCB panels
- 3/4/5 way RMU.
- 11/0.4kV pre-fabricated substation KIOSK type having 750/500 kVA distribution transformer.

The MV cable shall be XLPE type, 3 core Aluminum conductor cable underground.

The LV cables shall be emanating from the 500kVA PMU/KIOSK to the feeder pillar boxes shall be XLPE type 3 Phase four wire Aluminum conductor cable underground.

The feeder pillar boxes shall have provision of HRC/MCCB type controlled outgoing service cables for the consumers. The service cables shall be XLPE type, 4 core Aluminum conductor cable underground.



DL Addl Item No. 8-a

Distribution System Configuration

1. GENERAL

The Defence Officers Housing Authority (DHA) has acquired new land for development of state of the art housing project known as DHAC, Karachi, located approximately 55 kilometers from Karachi on Super Highway M-9.

Development of the area, spread over 22,446 acres, inclusive of infrastructure is the responsibility of DHAC while individual houses/commercial complexes shall be built by the residents who have purchased or leased the land in their name.

DHAC comprises DHAC North, DHAC South (16 sectors) and DHAC South Extension. DHAC South is presently planned and development work is in progress gradually, where each sector has generally four sub-sectors.

2. TYPE OF DISTRIBUTION SYSTEM (CONFIGURATION)

Once fully developed, the ultimate Electric power demand of DHAC will be approximately 1775.5 MW based on Ultimate Assessed load following NEPRA CSM-21. It will be supplied through 132 KV (EHT) underground cables, feeding grid stations spread over various sectors as per load centers.

The grid stations shall be established in different sectors in accordance with DHAC area allocation.

Entire electrical distribution network shall be underground including EHV 132 kV, MV 11kV and LV 400/220V lines.

The grid station shall be GIS type that will stepdown 132 kV to 11 kV for distribution stage through 40MVA power transformers that will be utilized for this purpose of switching voltage level.



Distribution Network, will extend via 11 kV feeders that shall be laid in accordance with the master plan for electrical distribution network, feeding 11/0.4kV distribution transformers that are KIOSK / PMU type.

Low tension underground distribution cables are planned which will emanate from distribution transformers for feeding the power demand of the consumers through feeder pillar boxes. Underground service cables shall be laid for the resident from the feeder pillar boxes to their premises.

Smart AMR meter shall be installed for consumer metering/billing. For bulk usage consumers MV metering VCB shall be placed.

The power requirement of DHAC will grow as the population grows and the infrastructure development will be based on load as per peak loading and load demand.

In future, power plant of larger size shall be constructed for which an area has been designed in the south east of DHAC land.

DL Addl Item No. 8-b

Service Territory, Right of Way and Feeder Maps

1. SERVICE TERRITORY

The DHAC, Karachi is located approximately 55 kilometer from Karachi on Main Super Highway M-9 with Hyderabad city at 112 kilometer. DHA City is distributed in three major areas namely DHAC North (9684 acres), DHAC South (11,680 acres) and DHAC South Extension (902 acres). Development of the total area, spread over 22,446 acres, inclusive of all infrastructure is the responsibility of DHAC following the design of Consultant(s) for development in phases, where individual houses/commercial complexes shall be built by the owners who have purchased or leased the land in their name.

Service territory is shown as below:-

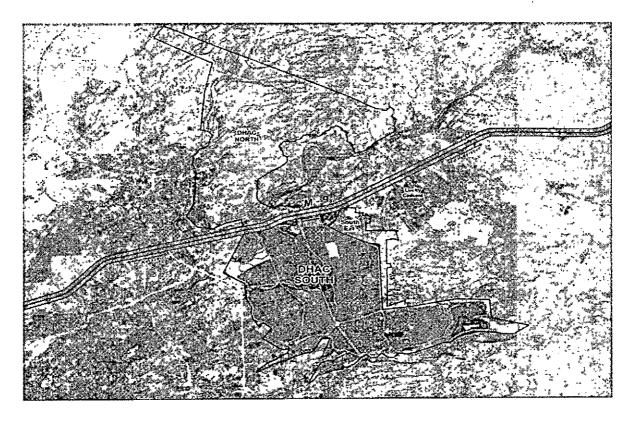


Figure 1-1 DHAC Karachi territory



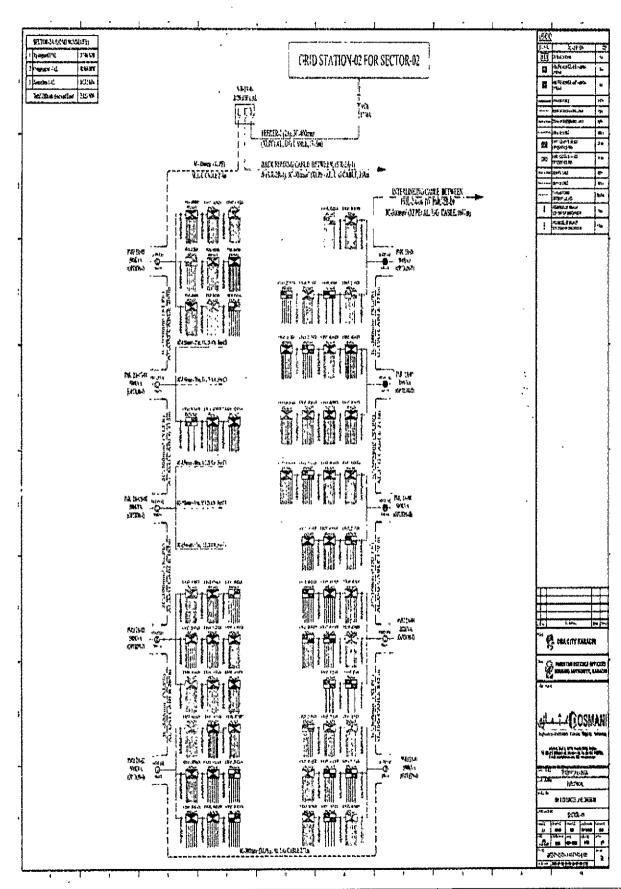
2. RIGHT OF WAY

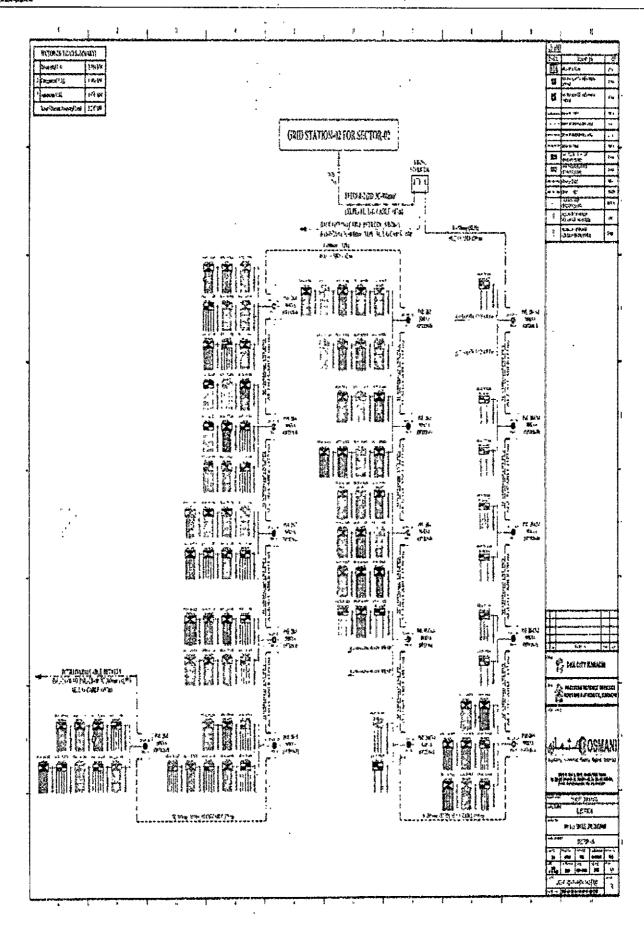
The DHAC land is DHAC property, hence the right of way is available and all the utility corridors have been planned by the consultant(s) designers for the developer.

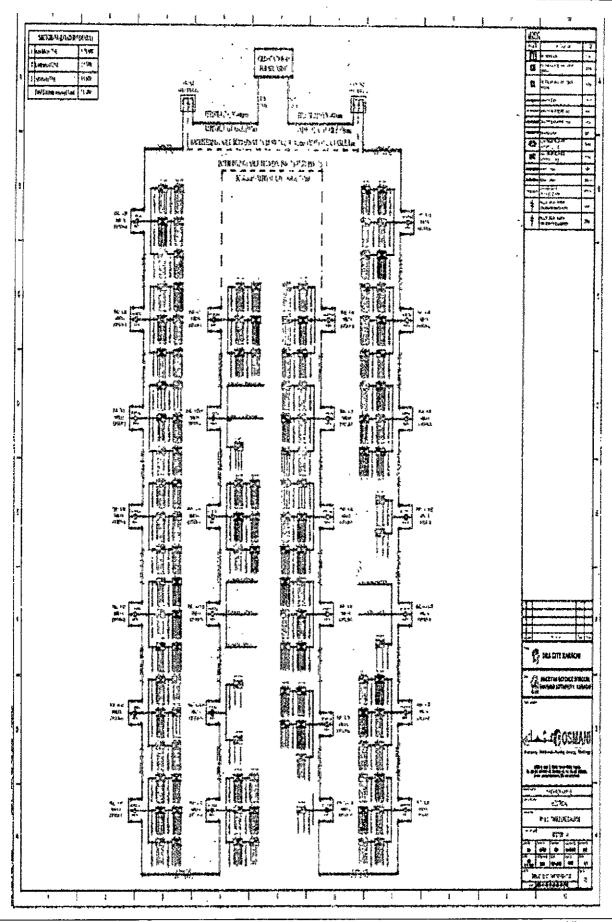
3. FEEDER MAPS

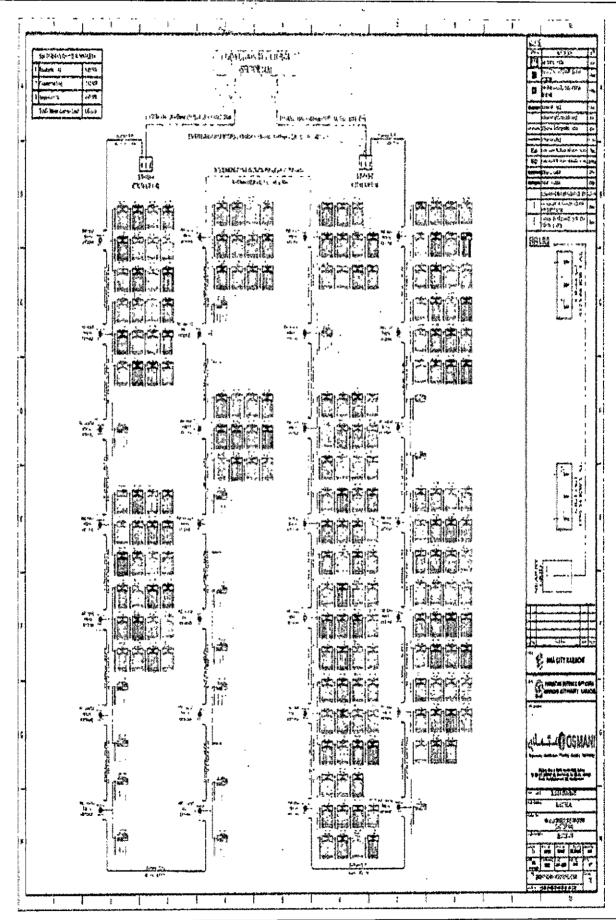
Provision of 11kV feeder(s) are made as per the NEPRA distribution code where, loading of the network is designed through the load flow analysis to limit the Voltage Drop (+5%) and Power Loss (+3%) on 11kV network. This is kept to ensure reliable and quality of supply/services. Entire DCK electrical distribution system design is bases on n-1 contingency to ensure smooth supply to end consumers in case of any main cable / system fault occurs.

Sample of feeder maps for DHA City South are attached herewith as attached.



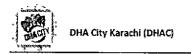






VOLTAGE LEVELS AND REGULATION

The document containing the information related to voltage levels and regulation of the system is appended herein below.



DL Addi Item No. 8-c

Voltage Levels, Regulation

The distribution system voltage level shall be as per NEPRA regulation and performance standards.

- Voltage level of transmission lines shall be 132 kV with voltage regulation ± 5% at the receiving end and it shall be ± 10% under single outage contingency condition. (N-1 condition as per NEPRA regulation and performance standards.)
- The Voltage levels of medium voltage distribution lines shall be 11 kV with voltage regulation of ± 5% at the receiving end and single line contingency condition (N-1).
 The medium voltage distribution lines shall be underground XLPE type.
- The low voltage distribution lines shall be 400/220 V with voltage regulation of $\pm 5\%$ at the receiving end.
- In addition power loss (I²R) will be kept at ±3% for MV and ± 8% for LV distribution supplies while PF shall be kept at 0.9.

LINE EQUIPMENT CHARACTERISTICS

The details of the line equipment characteristics of DESCO are appended herein below.

DL Addi Item No. 8-e

Line Equipment Characteristics

LINE EQUIPMENT CHARACTERISTICS

- All the materials and equipment utilized should comply with the following codes and standards.
- All the system designed shall conform to following main standards, wherever applicable.

Design Codes and Standards

The equipment and system selected shall adapt following standards:

- European Committee for Standardization (CEN) and European Committee for Electro Technical Standardization (CENELEC).
- International Electro technical Commission (IEC).

Areas that are excluded from above standards can adapt following:

- European Standards like EN, DN.
- British Standards (BS).

The electrical products shall conform to the applicable standards, by one of following testing laboratories:

- KEMA
- CESI
- UL or other similar laboratories.
- Rawaat Laboratories Pakistan.



1. 132 kV SUBSTATION

132/11kV grid station shall be of gas insulated grid station (GIS) type using SF-6 gas as insulation medium .It will be an indoor grid station.

The design of all plants and equipment shall conform to the latest state-of-art. Material used shall be of high quality. While satisfying all functional requirements under any possible combination of environmental conditions, the objective shall be to provide simplicity, reliability and safety while ensuring high economy, low maintenance cost.

The design shall ensure that all installations operate satisfactorily under all climatic conditions as stated above, and especially the high solar radiation resulting in additional heating of all installations exposed to direct sunlight shall be considered.

The 132 kV switchgear hall shall have sufficient space for transmission line to be provided plus two (2) future lines, besides bus coupler and VT bays.

The MV switchgear hall shall have the capacity to accommodate MV 11kV switchgear for 04 numbers of 31.5/40 MVA, oil immersed ONAN/ONAF, 132/12kV power transformers.

Generally, all equipment, apparatus and material shall conform to IEC, EN, ISO, VDE, DIN, BS, ITU-T, IEEE, ASHRAE and NFPA latest standards.

132/145 kV GIS Bus Bars

Nominal system voltage is 132 kV, however equipment will be rated for maximum system voltage i:e 145kV. Rated short time withstand current will be 50 kA This short circuit withstand value is selected on the basis of expected short circuit values of the DHA City system to which grid station will be connected. Insulation medium will be SF6 gas. Natural air flow will be maintained in design of civil works to provide natural ventilation and cooling of GIS equipment.

Circuit Breaker

Each bay shall consist of one (01) 132kV circuit breaker with the degree of protection IP 54 minimum and highest rated voltage of 145kV for line bays, transformer bays & bus



coupler bays. The rated continuous current capacity of the transmission line bays circuit breaker shall be 3150A minimum at 50°C ambient temperature.

The rated short time making current is designated as 130 kA. The breaker will be capable of breaking cable charging and capacitive switching. The duty cycle of the circuit breaker is selected as O - t'- CO-t''- CO, where t' = 0.3s and t'' = 3min.

Breaker shall be capable of operating according to IEC class M2 for mechanical endurance. The circuit breaker will have SF6 barrier and maintenance will be possible without taking out SF6 gas from other equipment of bus bar.

Power Transformer- 31.5/40 MVA

The power transformers shall be with outdoor bushings, the cooling fans shall be installed for enhancing the capacity of power transformer from 31.5 MVA to 40 MVA. The fans shall be grouped to operate automatically according to the temperature rise of the transformer oil.

The impedance of the power transformer shall be 16% to minimize the short circuit level. The neutral ground resistor (NGR) shall be installed to control the ground fault current with the monitoring system for negative sequence current appearing in case of single phase medium voltage open circuits or uneven capacitors installed on the MV system.

The vector group of power transformer is selected as star connected primary with star connected secondary (YNyn (d11)). The tertiary winding will be designed at one-third rating of the power transformer. The tertiary winding is provided to contain the flow of zero sequence current in case of ground faults and blocking the appearance of zero sequence current in the extra high tension network.

The transformer core will be made of insulated high grade silicon to minimize the eddy current loss. The power transformer will be core types. Each transformer will be equipped with on load tap changer. The bushings on the primary and secondary sides will be outdoor type with creepage distance of 45mm /kV for the highest degree pollution. The power transformer will be equipped with all necessary measuring and protective devices including buchholz relay, pressure relief device, oil level indicator, breather, RTDS, tap changer, protective device, oil and winding temperature indicators.

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All devices shall have provision for signals for annunciator panels in the control room. The signals will be integrated in HMI/SCADA system. The oil of the transformer will meet all the safety standards.

The transformer loading shall be kept to 70-80% in order to cater for the contingency conditions. The reserve capacity of the transformer helps to cater the load during the failure as well as during the routine maintenance of the system.

11kV Switch Gears

The 11kV switchgears shall be of Air insulated type using vacuum type arc quenching mechanism circuit breaker.

The switchgear shall be provided in metal clad and partitioned design with withdrawable circuit breakers. The switchgear is to be mounted on floor and shall be of free-standing, self-supporting, dead front design with all high voltage equipment installed inside metallic and earthed enclosures, suitably divided into individual compartments, at least for the

- Bus bar System
- Circuit Breaker
- Cable Connections
- Low Voltage Compartment

As per requirement the switchgear shall be in the form of single panel cassette type. Each panel shall be capable of being connected to another panel on either side.

Minimum Degree of Protection requirement as per IEC Publication 60529 for every compartment shall not be less than IP42.

The enclosure of the circuit breaker shall be comprised of the following equipment/compartments and satisfy the design and other requirements as specified. The details of individual equipment viz. Circuit Breakers, Relays Current and Voltage transformers, Bus-Bars etc. are described separately and are subject to the individual specification applying to them.

The enclosure shall be capable to meet Internal Arc Fault criteria as per IEC 62271-200 Classification IAC AFLR, Internal arc 25 kA 0.1 second.

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Line Equipment Characteristics

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In order to improve power factor and reduce the reactive power flow in the system appropriate size of capacitor banks shall be installed at 11kV grid station bus bars. This will improve the technical losses and help to improve active power flow in the system. NEPRA requirement of power factor shall be met.

2. <u>132kV TRANSMISSION LINE</u>

132kV Underground Cable

Single core 132kV XLPE insulated, copper conductor cables shall be of 800 square mm.

The conductor shall comprise stranded, soft-annealed, electrolytic copper wires. Conductors shall have longitudinal water blocking as per the requirement of IEC 60840.

The conductor shall be round shaped with compact stranded. There will be water swelling tape around each layer of wires.

Conductor screen material shall be semi-conducting XLPE and super smooth. The insulation material of cable shall be super clean XLPE. The insulation screen will be nonmetallic, semi conducting XLPE and super smooth.

The insulation and conductor screen shall be extruded simultaneously. The bedding and damping material shall be semi conducting tape the cable rated voltage shall be 76/132 kV, whereas the maximum system voltage for cable design purposes shall be considered as 145 kV. The cable shall be able to withstand 190 kV at power frequency of 50 Hz at 20°C for 30 minutes. The cable shall be able to withstand the impulse voltage of 650 kV peak.

Contingency studies shall be carried out for transmission network and (N-1) criterion shall be followed as per NEPRA requirements.

Maximum cable loading shall be kept to meet such conditions. Backfeed arrangements shall be kept for back feed and load transfers. The system shall be connected in ring form.

Sealing Ends

The cable terminations shall be suitable for application to single-core high voltage 132/145kV, XLPE underground cables. The terminal of the cable sealing end shall be



suitable to accommodate suitable copper conductor. They shall be designed to withstand the short circuit current.

The outdoor type cable sealing end bases shall be insulated from the structural steel work and the cable glands of gas-immersed and oil-immersed type sealing ends shall be insulated from the SF6 switchgear, and transformers. Outdoor sealing ends, porcelain insulators shall be provided designed with a creepage distance of 45 mm/kV line-to-line operating voltage.

For gas immersed terminations at the SF6 switchgear, blind-ended, epoxy resin insulators are required. The SF6 sealing ends shall comply with IEC recommendations. Termination shall meet the dimensions specified in IEC 60859/IEC 62271-209.

Link Boxes & Sheath Sectionalizer Unit

The link boxes shall be IP54 and directly buried. The link bars shall be of tinned copper. The lid case material shall be of glass fiber steel or stainless steel. The single core bonding cable shall be as per IEC standard 60502-1. The protective housing of Sheath sectionalizer unit is recommended of fiber glass compound.

Joints

The joints shall be suitable for application to single-core 132/145 kV XLPE underground cables to withstand the short circuit current. The copper conductor shall be spliced by means of a compression ferrule for copper conductors.

Cable Temperature Monitoring

In order to monitor the continuous performance of each cable system in operation; optical fiber distributed temperature sensing (DTS) device (dual channel) shall be installed.

Distributed Temperature Sensing Systems (DTS) are optoelectronic devices which measure temperatures by means of optical fiber functioning as linear sensors. Temperatures are recorded along the optical sensor cable, thus not at points, but as a continuous profile. A high accuracy of temperature determination is achieved over great distances.

SCADA Integration

SCADA System shall be used to collect data from instruments and sensors located at remote sites and to transmit data at load dispatch center (LDC) for monitoring and controlling purpose. The collected data from sensors and instrument shall be viewed on one or more SCADA host computers HMIs that shall be located at Load Dispatch Centre.

Based on the information received from the remote stations, automated or operator-driven supervisory commands can be pushed to remote station control devices.

Fiber Optic Cable

The telecommunication network shall be provided with a Fiber Optic FO main digital backbone ring. The information to be carried by the telecommunication media shall comprise following:

- Power system protection (tele protection signaling)
- Data communication between RTU and control center.
- · Operational telephony.

The fiber optic cable shall be designed to withstand all prevalent environmental conditions including the effects of high electric and magnetic fields produced in proximity of live power cables.

The armored fiber optic cable shall be of the single mode type equipped with 24 fibers complying to standards and shall be suitable for underground installation/direct burial alongside the power cables and for laying in trenches/cable trays from the power cable outlets within the substations premises.

3. SYSTEM EARTHING

Neutral Grounded through resistor at Grid- Station to limit the earth fault current. Earth resistance value shall be limited to \leq 5 Ohms.

The line equipment characteristics shall be as follows.

132 KV Grid Station Equipment

Power Transformer

I.	Rated .	40 MVA
11.	Voltage ratio	132/12 kV
III.	Winding arrangement	Delta /Star
IV.	Tap position	Oil immersed
V.	Impedance at principal tap	16 %
VI.	Vector group	YNyn0(d11)
VII.	Tap change range	±15 %,
VIII.	Earthing method	Through NGR

GIS Switchgear

1.	Rated Voltage	145 kV
11.	Operating Voltage	132 kV
Ш.	Rated 3 - Phase, Short Circuit Breaking Current	40 kA
IV.	Rated 3- Phase , Peak Short Circuit Making Current	100 kA
V.	Rated Bus Bar Current	2500 A

11 kV Switchgear

l.	Rated Current	630 A for incoming and outgoing panels
		2500 A, for bus bars and bus coupler

Rated Voltage

15kV



111.	Rated Frequency		50 Hz	•
IV.	Rated short circuit breaking current		20 kA	for 1 Sec
V.	Rated short circuit making current		63 kA	
VI.	Rated 1 minute power frequency withstand voltage	je	28kV	
VII.	Rated lighting impulse withstand voltage		75 kV	•
VIII.	Operating sequence	O-0.	3 sec-	CO-3Min-CO
IX.	Operating times:			
Χ.	Closing time		Max	80 ms
XI.	Opening Time		Max	60 ms

. Kiosk Sub Station

- The kiosk substation shall be compact and outdoor type design.
- The kiosk sub- station shall have four (04) compartments each one shall house the
 equipment as under.
 - MV VCB Switchgear panels- Three Numbers
 - Oil filled distribution transformer-kVA Rating 1000/750/500
 - LV panel
- The Kiosk shall be complete in all respect with inter connection between MV switchgear and MV distribution transformer and between LV side distribution transformer and LV panel.
- VCB Switchgear panel for distribution transformer shall be complete in all respect,
 shall be prewired and equipped with the following.
 - Dual ration dual core current transformer for metering and protection.
 - II. Potential transformer
- III. Numeric over current and earth fault relay
- IV. Electronic AMR Energy meter
- V. Ammeter selector switch (ASS)
- VI. Digital voltmeter
- VII. Voltmeter selector switch
- VIII. Cable terminations

- The protection and metering equipment with Earth fault indicator (EFI) shall be smart and intelligent Electronic devices (IEDs) having provision for remote on-line two way data and fault indication communication and provision for integration with AMI and SCADA for distribution Automation (DMS and EMS) to achieve smart grid concept.
- The metering compartment and instrument /relay compartment in MV panel shall have sufficient space to accommodate the devices like transducer, modem, and RTU etc necessary for remote data transmission and for control/ monitoring through SCADA.
- The VCB switch shall have at least 12 Numbers of normally open (NO), to normally close (NC) contacts for remote ON and OFF indication and control through SCADA.
- The Numeric relay shall have potential free NO and NC contacts for remote communication of status/ indication and control through SCADA.
- The metering compartment and instrument/relay compartment shall have sufficient number of various sizes/ capacity of spare terminals.

4. PAD MOUNTED UNIT

PMU (Pad Mounted Units) are ground mounted as specified in their name. This specification describes the design of the 500 kVA Transformer Pad Mounted Unit to be used in distribution network shall be IP54 compliant, suitable for outdoor use. The pad mounted transformer shall be suitable for installation in the three phase underground 11KV distribution system of the following characteristics:-

1.	Nominal system voltage		11 KV
2.	System highest voltage		12 KV
3.	Frequency	***************************************	50 Hz

il,

MV Coupling Compartment

The enclosures for MV Coupling Compartment for linking the RMU to the 500 KVA Distribution Transformer shall be through insulated Flexible Bus bar arrangement connected to the HT Bushing of RMU and the Transformer HT bushing, and shall be tested for insulation levels:

Lightening impulse withstand voltage 75 KV

One minute power frequency withstand voltage
 28 KV

The MV side shall consist of RMU with the additional features of bushing CTs & transformer current feed time over current relay for protection of the 500 KVA PMU Transformer and wooden cable holding cleat for support of HT cable.

The rating of incoming and outgoing LT TP MCCBs for LT Compartment can be varied as per the need and requirements of load. The LT Circuit Breaker shall comply with the below requirement or as per the loading conditions. Two types of PMU are being used for 500kVA rating as per below characteristics:-

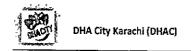
Option-I (Provision shall be provided for insertion of 240/300 mm2 Lugs)

- 1. 01 Number TP MCCB 630 Amps LT Circuit Breaker (Incoming)
- 2. 03 number TP MCCB 250 Amps LT Circuit Breaker (Outgoing)

Option-II (Provision shall be provided for insertion of 240/300 mm2 Lugs)

- 1. 01 Number TP MCCB 800 Amps LT Circuit Breaker (Incoming)
- 2. 02 Number's TP MCCB 400 Amps LT Circuit Breaker (Outgoing)

PMU rating shall not be limited to 500kVA and with enclosed RMU, it shall vary as per design requirement to 100/200/400kVA PMU.



5. FEEDER PILLAR BOX

Fuse Type FPB

LT Distribution Feeder Pillar Boxes (6, 8, 10 Way) shall be used for providing service connection to consumers. The incoming & out going circuits shall be of 4 core 70/120/240 mm² Cu or 4 core 95/150/300 mm² Al armored cables and shall be connected at incoming & outgoing main HRC detachable Fuses of 315 Amps. The fuse bases shall be of same rating as fuses. Both fuses and fuse bases shall be approved.

Bus Bar

Bare Aluminum bus bars shall be installed. The bus bars shall be marked with Red, Yellow, Blue, Black & Green (R, Y, B, N and Earth) color for identification.

The Aluminum bus bars shall have the following Electrical/Mechanical characteristics as mentioned.

MCCB Type

The feeder pillar housing shall have front and rear compartment. A suitable sheet of insulating material shall be provided for separation between front and rear compartment.

The feeder pillar housing shall be floor mounted installed on RCC pad.

- The housing shall be of GRP, dust and weather proof, ingress protection to IP55 and weather proof and rigid construction suitable for outdoor use.
- The feeder pillar housing shall have front and rear compartment. A suitable sheet of insulating material shall be provided for separation between front and rear compartment.
- The rear compartment shall contain LV main 600 A TPN+E bus bar, MCCB, CT operated 3 phase, 4 wire electronic AMR Energy meter, set of current transformers.
- The front compartment shall contain LV distribution 300 A TPN+ E bus bar outgoing MCCBs for consumer feeders.



- Incoming MCCB shall be connected between main and distribution Bus bar and distribution bus bar onward shall feed the outgoing MCCBs for consumer feeders.
- The feeder pillar shall have front and rear compartments. A suitable sheet of insulating material shall be provided for separation between front and rear compartment.
- The rear compartment shall contain LV main 600 A TPN + E bus bar, MCCB, CT operated 3 phase 4 wire Electronic AMR energy meter, set of current transformers.
- The front compartment shall contain LV distribution 300A TPN + bus bar and outgoing MCCBs for consumer feeders.
- Incoming MCCBs shall be connected between main and distribution bus bar and distribution bus bar onward shall feed the outgoing MCCBs.
- The upper/top chamber shall be suitable to accommodate electronic AMR Energy meter

Description	· Values	Unit
Material	Aluminum (1350)	
Tensile Strength	80 (Tolerance of -1%)	N/mm Sq
Electrical Resistivity	2.83	M ohm cm
Density	2.70	g/cm3

g/citis

The feeder pillar shall have provision for incoming and outgoing cable entry.

- All incoming and outgoing cable entry points shall be provided through cable glands.
- The middle chamber /housing shall have on the upper front door indication lamps for indication supply availability.

6. <u>SWITCHING STATION- RING MAIN UNIT (RMU)</u>

incoming cable from KIOSK LV distribution panel.

- The switching sub-station shall be outdoor type either of 3 way, 4 way MV switchgear panel arrangement as per design requirement.
- The sub-station shall have MV switchgear panel with vacuum circuit breaker (VCB) to accommodate outside MV cable circuit designated as incoming and outgoing.
- The sub-station shall be mounted on RCC platform with provision for MV cables circuit entry and connections.
- VCB switchgear panel for connecting outside MV cable shall be complete in all respect shall be pre wired and equipped with the following

DL Addi Item # 8-e Line Equipment Characteristics

with ring type CTs on phase

LV

of



- 1. Single Ratio Dual core current transformer for protection
- 2. Numeric over current and Earth Fault Relay.
- 3. Digital Ammeter
- 4. Ammeter selector switch (ASS)
- 5. Earth fault indicator (EFI)
- 6. Earth switch to ground cable.
- 7. Cable live indication.
- 8. Cable termination arrangement.
- The protective equipment and EFI shall be smart and intelligent Electronic Devices
 (IEDs) having provision for remote on line two way data and fault indication
 communication and provision for integration with AMI and SCADA for distribution
 Automation (DMS and EMS) to achieve smart grid concept.
- The instrument /relay compartment in MV panel shall have sufficient space to accommodate the devices necessary for remote data transmission and for control/monitoring through SCADA.
- The VCB and earthing switch shall have potential free 12 No's of Normally open (NO) and 12 No's of normally closed (NC) contacts for ON and OFF indication and control through SCADA.
- The metering and Instrument relay compartment shall have sufficient space for various size/capacity of spare terminals.

7. CABLES EHV/MV/LV

EHV 132 KV Transmission Lines (Underground Cable)

•	Rated Voltage	145,000	Volts
•	Operating Voltage	132,000	Volts

• . Type (XLPE) Underground cable, Single

Core, Copper conductor

• Size 800mm²



MV cable and Straight through joint /Termination

- The cable shall be three core stranded aluminum conductor, XLPE insulated, triple extruded, PVC bedded, steel wire armored (SWA) and PVC sheath overall.
- The cable shall be laid in tranches complete with bricks sand cushion, warning tape, and marker.
- The cable trench shall be depth 1.0 m.
- The straight through joint for MV XLPE cable shall be of PVC consisting of mould, resin, and MV tape, semi-conducting tape, ferrules and earth wire.
- The danger sign for MV cable shall not be less than 250 x 125 mm enameled.

11 kV Cable

300mm²/400 mm² 1. Size

2. Type Annealed Aluminum Stranded, XLPE

15 kV Rated Voltage

 4. No of cores 3

LV Cable

- The LV cable shall be stranded aluminum conductor, XLPE insulated, extruded PVC embedded, steel wire armored and PVC sheathed overall.
- The cable shall be laid in tranches complete with bricks, sand, warning tape with all accessories.
- The cable trench shall be of depth 0.9 Meter.
- The danger sign of LV cable shall not be less than 250x125 mm enameled.

LV cable

Rated Voltage

300/240/185/150/95/70/35/16 mm² 1. Size

Annealed Aluminum Stranded, XLPE 2. Type 600/1000 Volts

400 Volts 4. Operating Voltage

No of cores



8. <u>DISTRIBUTION SYSTEM (11 KV)</u>

Transformer

1.	Rating	100-1000 kVA
2.	·Voltage ratio	11000/400Volts
3.	Tap position	Principal Tap
4.	Vector group	Dyn11
5.	Impedance voltage (100-500kVA)	4% (With IEC tolerance)
6.	Impedance voitage (750/1000kVA)	5%(With IEC tolerance)

11 kV Switch Gear

1.	Rated voltage	15,000	Volts
2.	Operating voltage	11,000	Volts
3.	Rated 3 phase short circuit current (1 sec)	20	kA
4.	Rated 3 phase short circuit making current	63	kA

POWER QUALITY CONTROL

The information relating to the power quality control of the distribution system is provided herein below.

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Power Quality Control

1. POWER QUALITY CONTROL

Power quality will be controlled by adapting to NEPRA codes and regulations. All Equipment shall conform to latest standards, and selecting an overall safe, reliant and stable design for distribution.

It is the responsibility of Electric Distribution Company to maintain certain power quality Indices (PQI) within standard limits.

The Users shall ensure that any of their Apparatus, Equipment, or Plant connected to the Transmission System, shall not cause Power Quality issues such as flicker, harmonics, Voltage dips, or Voltage unbalance beyond the permissible limits stated in the relevant International Standards (IEC and/or IEEE). Where such limits are exceeded at the Connection Point, the Users shall install appropriate and specific compensation and/or power quality mitigation equipment within their premises/networks. This may include, but not limited to installation of harmonics filter, Static VAR Compensator (SVC) or STATCOM.

2. VOLTAGE LEVEL:

We will ensure that consumers at DHAC receive nominal voltage that is secure and efficient for their electrical use at their service outlets or power sockets.

The main reasons for voltage fluctuations in the power system is due to electric supply faults but also due to distributed generation. The fundamental solution to control voltage fluctuations is using the On-Load Tap Changer in the primary substation transformer which changes the tap ratio of the transformer to control voltage deviation. We can use STATCOM at the Power Bus side in the MV grid. Another alternative is to use Static VAR System (SVS) and Dynamic voltage restorers (DVRs).

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Voltage levels need to be within the prescribed limits by NEPRA. As mentioned in "NEPRA Distribution Code", Clause DPC 3.4:

Delivery Voltage at the receiving end is as under:

i.	Normal Conditions	 400/230 Volts, 11kV	+/- 5%
ii.	Contingency conditions	 400/230 Volts, 11kV	+/- 5%

The selection of size of the conductor on the MV feeder and LV cable should be on the basis which lends to a maximum of 5% voltage drop (regulation) along the entire length upto the end consumer on the basis of full load.

According to NEPRA's Grid Code Clause OC 5.5.7, the system operating Voltage shall be maintained within these limits both for Normal Operating Conditions and Contingency Conditions excluding transient and abnormal System conditions.

- a) Under (N-0) Normal Operating Conditions: The bus Voltages shall be within the bandwidth of +8% and -5% of Nominal System Voltage for 132 kV Voltage level.
- b) Under (N-I) Contingency Operating Conditions: The bus Voltages shall be within the bandwidth of ±10% of the Nominal System Voltage for 132 kV Voltage level.

3. POWER LOSSES:

According to NEPRA distribution code, Clause DPC 10, the licensee must account for the losses occurring in energy conversion, transmission and distribution facilities. These losses are variable according to amount of power flow and are called I2R Losses.

Energy generated does not match with the energy delivered. Some percentage of the energy is lost which is known as transmission & distribution (T&D) loss. There are two types of T&D losses: Technical and Non-Technical. The technical losses due to lengthy distribution lines, inadequate size of conductors of distribution lines, installation of distribution transformers away from power transformers, low power factor for primary and secondary distribution system, and bad workmanship etc. All these reasons can be eliminated through proper design of distribution system and through strict governance.

Whereas, nontechnical losses are caused by external actions to the power system.



The allowable power loss in 11kV MV Distribution Stage is 3% and allowable power loss in 400/22V LV Distribution is 8 % (accumulative).

4. POWER FATOR:

Power factor shall be maintained within the prescribed limit of 90% to 100% excluding IT systems.

According to "Grid Code" Clause CC 8.1:

User drawing load shall maintain Power Factor on Connection Points within the range of 0.95 lagging to unity in any half-hour period.

For power factor compensation or regulation and for inductive load exceeding 40kW, PFIP will be made as mandatory to optimize the power factor.

5. FREQUENCY DEVIATION:

Frequency Deviation will be as per Clause SPR 2 (b.) in "NEPRA Distribution Code",

Licensee shall supply power to its consumer within the frequency range of 50(+/- 1%) Hz. The Licensee shall supply electric power to its consumers of the power quality in accordance with the IEEE Standards 519 – 1992 pertaining to Harmonics content.

According to "Grid Code" Clause CC 5.4.4;

The SO shall coordinate with all the Users connected to Transmission System in order to maintain the System Frequency at 50 Hz with the following allowance excursions:

- a) Target System Frequency shall be 50 Hz ± 0.05 Hz.
- b) Frequency Sensitive Band shall be 49.8 Hz 50.2 Hz. Such band is permissible to allow Frequency variations while ramping up generation and load pick-up.
- c) Tolerance Frequency Band shall be in the range of 49.5 Hz -50.5 Hz, which are protected periods of operation of the system.
- d) Contingency Frequency Band shall be 49.3 Hz 50.5 Hz, which is the maximum expected absolute value of the instantaneous Frequency after the occurrence of an imbalance, beyond which SO shall deploy emergency measures such as Demand Control or Automatic Low Frequency Demand Disconnection.



e) A Significant Frequency Disturbance Event is deemed to have occurred if the Frequency falls below 49:3 Hz or rises above 50.5 Hz.

6. HARMONIC DISTORTION:

It will be followed according to **IEEE standard 519-1992** as mentioned in "NEPRA distribution Code", clause DPC 2.4 (Voltage disturbances and harmonic distortion).

Voltage and Current Harmonic Limits According to IEEE 519, harmonic voltage distortion on power systems 69 kV and below is limited to 5.0% total harmonic distortion (THD) with each individual harmonic limited to 3%. The current harmonic limits vary based on the short circuit strength of the system they are being injected into. Essentially, the more the system is able to handle harmonic currents, the more the customer is allowed to inject.

Individual Total harmonic harmonic (%) distortion THD (%) Bus voltage V at PCC $V \le 1.0 \text{ kV}$ 5.0 8.0 3.0 5.0 $1 \text{ kV} < V \le 69 \text{ kV}$ 1.5 2.5 $69 \text{ kV} < V \le 161 \text{ kV}$ 1.5ª 1.0 161 kV < V

Table 1—Voltage distortion limits

Reference for Table-1 & Table-2: IEEE STD™ -2014; IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems

7. DESIGN PARAMETERS FOR VOLTAGE DROP AND POWER LOSS:

The voltage drop should be within the 5% limit, while power loss shall be 3% for LT circuit and 8% for HT circuit. The cable length has been constrained to 100 meters on average in the whole design of DHAC South whether it be commercial or residential planning, to reduce voltage drop and overall power loss. Following design criteria and standards shall be followed for different components of the network for power quality control:



8. EQUIPMENT LOADING:

According to NEPRA's Grid Code Clause TPCS 4.1.1:

The following loading criteria shall be observed for load flow studies.

- All transmission lines and transformers shall be loaded below their Normal Continuous
 Maximum Ratings under normal operating conditions (N-U condition);
- All transmission lines and transformers shall be loaded below their Contingency Ratings under contingency conditions (N-I).

According to NEPRA's Grid Code Clause TPCS 4.1.2:

Dynamic ratings for loading limits may be evaluated and applied for specific geographical regions. For instance, loading limits of transmission lines and transformers in the wind corridors or low temperature northern hilly areas may be increased up to 10%. All loading limits shall be determined in accordance with applicable IEC Standards and updated from time to time as new and revised standards become available. In the event that an IEC Standard with necessary scope does not exist, then other applicable standards such as ANSI C57.92, IEEE 738-2012, IEC-287 or other standards of internationally recognized institutions may be used. In the event of a dispute as to which planning and design Standards are to be used, GCRP shall have the final decision.

Sr. No.	Equipment	Loading in N-0 Conditions	Loading in Contingency Conditions
1.	Transformers	80 % of the rated capacity	110% of rated capacity
2.	Transmission Lines	80 % of the rated capacity	100 % of rated capacity

9. GUARANTEED STANDARDS:

A distribution company shall implement "Guaranteed Standards" as mentioned in "National Electric Power Regulatory Authority Performance Standards (Distribution) Regulations, 2021".

In the event of planned Power Supply Interruptions all consumers shall be informed **FORTY- EIGHT HOURS** prior, via sms / on web portal.

DL Addi Item #8-f Power Quality Control



Guaranteed Standard 1 - Restoration following Unplanned Long Duration Power Supply Interruptions (GS1):

In the case of an unscheduled or unplanted Power Supply Interruption, a distribution company shall restore the supply of power to all affected consumers within the time limits specified below:

Consumers in urban areas	000 600 and also are for one con two one con con con con con	10 Hours
Consumers in rural areas		16 Hours

Guaranteed Standard 2 - Maximum Number of Unplanned Long Duration Power Supply Interruptions (GS2):

Consumers receiving Supply at:	132/66 kV and above	33/11 kV	400/230 Volts	
			Urban	Rural
Maximum No. of interruptions for each individual consumer per annum	6 .	30	60	80

Guaranteed Standard 3 - Duration of Unplanned Long Duration Power Supply Interruptions (GS3):

Consumers receiving Supply at:	132/66 kV and above	33/11 kV	400/230 Volts	
			Urban	Rural
Maximum interruption aggregated duration (Hours) for each individual consumer per	26	44	88	175
annum				

Guaranteed Standard 4 - Maximum Number of Planned Long Duration Power Supply Interruptions (GS4):

Consumers receiving Supply at:	132/66 kV and above	33/11 kV	400/230 Volts	
			Urban	Rural
Maximum number of Planned Interruptions for each individual consumer per annum.	4	8	16	16

DL Addl Item #8-f



Guaranteed Standard 5 - Duration of Planned Long Duration Power Supply Interruptions (GS5):

Consumers receiving Supply at:	132/66 kV and above	33/11 kV	400/230 Volts	
			Urban	Rural
Maximum interruption aggregated duration (Hours) for each individual consumer per annum.	36 · .	64	80 <i>.</i>	96

Guaranteed Standard 6 - Maximum Number of Unplanned Short Duration Power Supply Interruptions (GS6):

Consumers receiving Supply at:	132/66 kV and above	33/11 kV	400/230 Volts	
			Urban	Rural
Maximum number of unplanned Short Duration Power Supply Interruptions for each individual consumer per annum (GS6).		140	275	300

10. OVERALL STANDARDS OF PERFORMANCE:

For reliability, quality of supply and safety, "Overall Standards" as mentioned in "National Electric Power Regulatory Authority Performance Standards (Distribution) Regulations, 2021", shall be met. These are produced below:

1) System Average Interruption Frequency Index (OS1):

The Distribution Company shall ensure that the SAIFI index does not exceed the prescribed limit. The limit shall be determined by the Authority on the basis of 5% reduction over the mean value of five years historical data of SAIFI.

 $System\ Average\ Interruption\ Frequency\ Index\ (SAIFI)$

Total annual Number of all consumer power Supply interruptions

= $\frac{1}{1}$ Total number of consumers served by the distribution company in a given year



2) System Average Interruption Duration Index (OS2):

The Distribution Company shall ensure that the SAIDI index does not exceed the prescribed limit. The limit shall be determined by the Authority on the basis of 10% reduction over the mean value of five years historical data of SAIDI.

System Average Interruption Duration Index (SAIDI)

 $= \frac{Aggregate\ sum\ of\ all\ Consumer\ Power\ Supply\ Interruption\ durations\ in\ minutes}{Total\ number\ of\ consumers\ served\ by\ the\ distribution\ company\ in\ a\ given\ year}$

3) Nominal Voltages (OS4):

- i. A distribution company shall supply power to at least 95% of its consumers within the range of \pm 5% of the nominal voltage.
- ii. The following nominal voltages shall be used for the distribution system of a distribution company, namely:-
 - (a) 132 kV
 - (b) 11 kV
 - (c) 400/230 Volts

BACK-UP/EXPRESS FEEDER PROVISIONS

Back-up/express feeder provisions are appended herein below.



DL Add Item No. 8-g

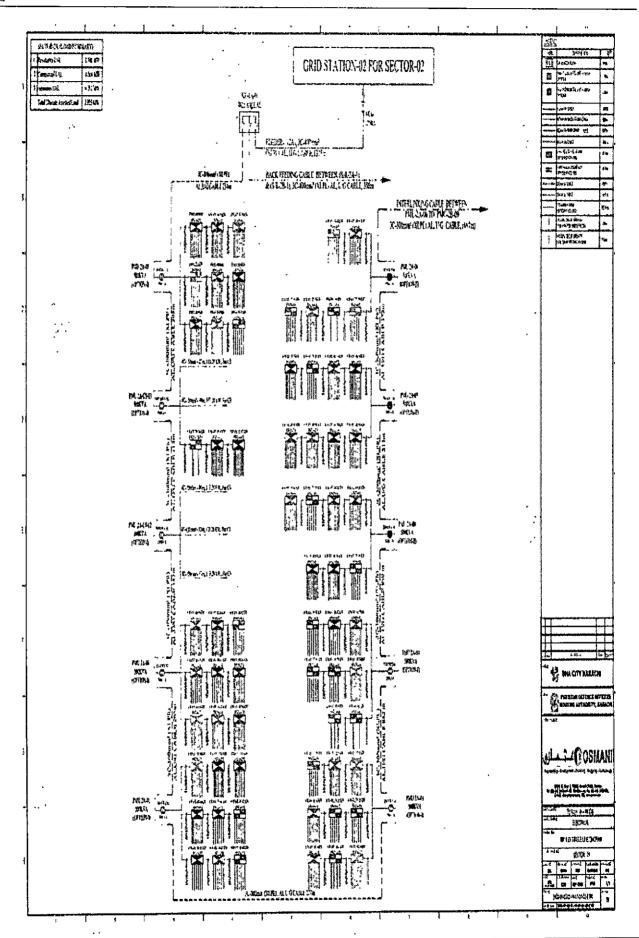
Back-up Express Feeder Provision

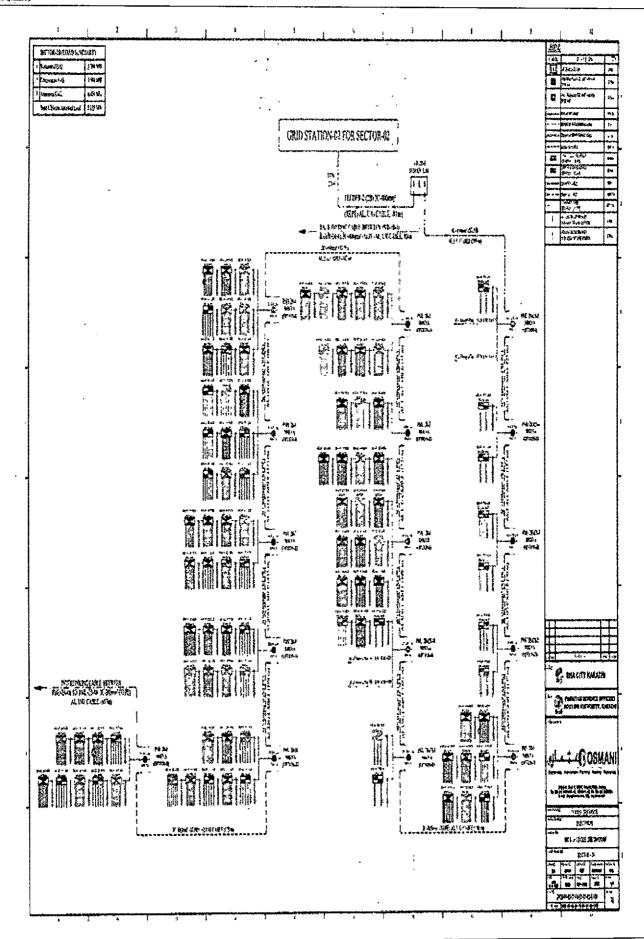
1. BACK-UP / EXPRESS FEEDER PROVISION

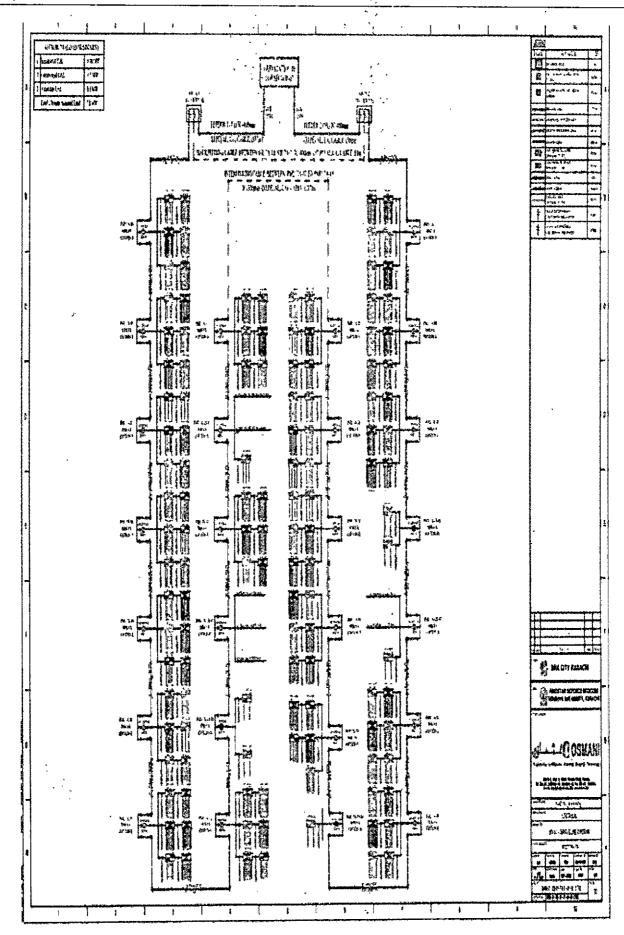
Entire DHAC electrical distribution system design is bases on n-1 contingency to ensure smooth supply to end consumers in case of any main cable / system fault occurs.

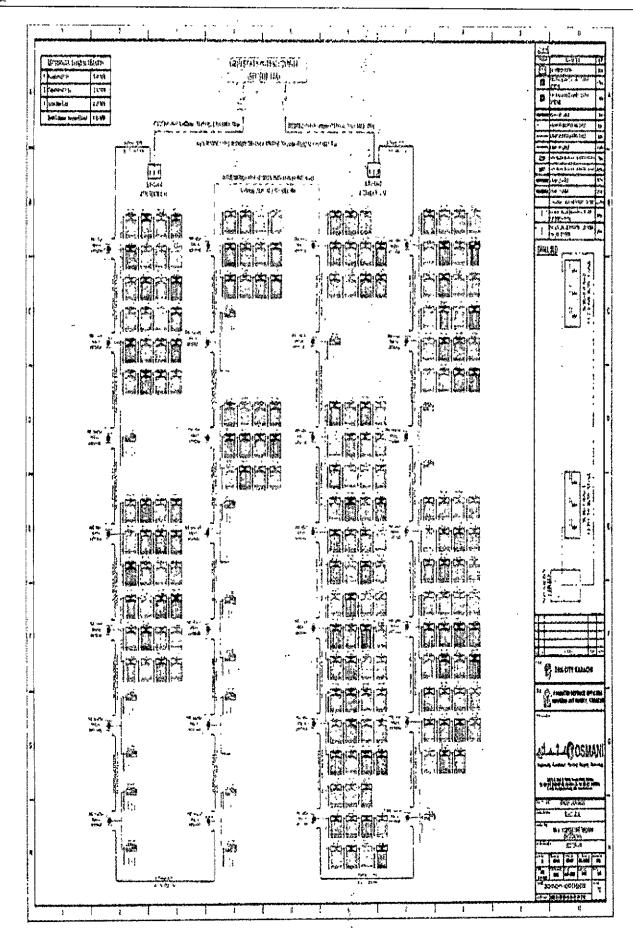
For 132 kV underground transmission line 800 mm² sizes consist of six (6) circuits and interlinking to meet (n-1) criteria the other circuit shall be capable of taking peak load demand of DHAC South. Similarly same provision shall be adopted for DHAC North and DHAC South Extension.

Back up of 11kV feeder provision is made by interlinking each Switch Room/RMU (where feeder is linked) to another Switch Room/RMU (where other feeder is linked) to provide 11kV backup in case of fault on service feeder, in addition last PMU's are also interlinked to ensure dual arrangement in case of fault. SLD for DHAC South plan is attached below.









ACCIDENT PROTECTION AND PREVENTION PROCEDURES

Accident protection and prevention procedures are appended herein below.



DL Addl Item No. 8-h

Accident Protection and Prevention Procedures

1. ACCIDENT PROTECTION AND PREVENTION PROCEDURE

- Standard operating procedure (SOP) for operation and maintenance of all equipment will be prepared.
- Safety procedure will be developed considering the voltage levels.
- All operation and maintenance personal will be equipped with safety gears and personal safety gadgets.
- All equipment will be tagged properly to avoid any accident.
- The earthing of all equipment will be carried out as per IEC/IEEE codes and standards.
- The forms for handling over / taking over equipment of maintenance will be developed.
- SAP or any other equivalent software will be used for plant and equipment to keep a track of maintenance.
- Written communication will be done to take shut down, for maintenance of normal line/equipment.
- Proper Communication will be done to take shut down for maintenance of normal line element and thus also same for handling over for reenergizing of element after maintenance.
- All operation with time, and persons responsible, will be tagged properly, in registers at installation, to avoid any accident.
- The SOPs prepared will define, duties of personnel involved in operation and maintenance.
- The proper warning signs will always be in place.



- All underground cables shall be duly marked with UG cable markers on ground surface.
- The equipment for maintenance and operation will be not accessible to any unauthorized person.
- The fire extinguisher system will be placed, at necessary place, along with manual and automatic system for high voltage equipment like transformer and grid stations.
- The power transformer will have automatic fire protection system.
- The underground mesh will be installed to control step and touch voltages within limits.
- Firefighting training will be given to operation and maintenance crew.
- The illumination level will be as such preventing any accident due to low light standards.
- All codes and standards will be as per NEPRA distribution codes.
- The health and safety protocols will be developed for employee.
- The equipment will be tested as per SOP to avoid accidents.
- All equipment installed will be made inaccessible by installing barriers and putting warning signs.
- Preventive and Annual maintenance plan shall be developed to prevent any failure/accident occurrence.

Accident Protection & Prevention Procedures

DL Addl Item No. 8-i

Emergency Provisions

1. EMERGENCY PROVISIONS

Emergency provisions and protocols for electrical systems are designed to ensure the safety of personal/Equipment and mitigate the risks during emergency situations. Following measures shall be taken to implement emergency protocols and procedures:

a. Emergency Contact No.

All vital areas shall have emergency contact numbers displayed for ease of communication by anyone noticing any emergency situation or hazard.

b. Emergency Response Team

Emergency response team shall be made available 24/7 to encounter any emergency situation in least time.

c. Fire Tenders

Fire Tenders with state of art equipment will be available to reach affected site in minimum possible time under the supervision of firefighting department/safety department.

d. First Aid Service

First aid service with Ambulance services shall be part of emergency provision plan.

e. Communication

All vehicles and response teams shall have provision of wireless communication for effective emergency response and actions.



f. Emergency Exits

All High rise/multi stories building shall ensure provision of emergency exits for the safety of occupants.

g. Emergency Response Plan:

An emergency response plan, outline procedures shall be followed during power related emergencies including communications, evacuation plans and contact information for emergency services.

h. Emergency Maintenance Shut Down Plan:

Clearly defined protocols shall be in place for shutting down specific electrical systems or equipment during emergency maintenance plan to prevent further hazard or damage to equipment/system.

i. Fire Alarm System:

Fire Alarm shall be placed to initiate any energy situation. In addition smoke/thermal detectors shall be placed to initiate Automatic Alarm for as early warning for evacuation and taking controlling measures.

j. Regular Maintenance and Safety Inspections:

Routine inspections, testing and maintenance of electrical distribution systems help to identify potential hazards or equipment failures before emergency occurs.

k. Emergency Power Off:

Power off switches located in easily accessible areas; allow for the immediate switch down of power in emergency situations.

I. Emergency Lighting:

Backup lighting systems such as battery powered lights or stand-by generators shall be installed to ensure visibility during power outages.

m. Back-up Power Sources:

Electrical distribution systems shall incorporate with emergency generators or battery back-up systems to provide power during extended outages.

ANNEX - F-15

PROTECTION, CONTROL AND MEASURING INSTRUMENTS

The details related to the protection, control and measuring instruments of the system are appended herein below.

DL AddI Item No. 8-j

Protection, Control and Measuring Instruments

1. PROTECTION, CONTROL AND MEASURING INSTRUMENTS

Protection System shall be designed to protect all the essential equipment installed in the electrical network of DHAC, Karachi. The general aim of the protection equipment shall be to isolate every fault on the network with reliability, speed, selectivity and simplicity, avoiding unnecessary operation and in the minimum time possible. The protection system shall comprise state of the art, high speed, highly sensitive numerical relays and associated equipment. Relays shall have the provision for SCADA and telecom facilities. The protection system shall be designed in such a way that it shall facilitate easy maintenance and repair of the components. All protection and control components and measuring equipment including Ammeter, Voltmeter, Power factor meter, Active and reactive power meters suitable for the local climatic conditions.

2. TRANSMISSION LINE PROTECTION

Distance relays, in conjunction with tele-signaling, shall be used as primary protection for high speed fault clearance on transmission line with maximum sensitivity and selectivity. Over current relays for phase and earth faults shall be used as back-up protection. The pilot wire differential protection shall be provided for underground transmission feeders.

Back up over current and earth fault relay shall be used to monitor all three phases and earth fault in back up of distance relay. Surge Arrester/Lightning arrestor shall be installed at transmission line to ground heavy lightning strikes or surges the system.

All measuring equipment shall be according to IEC/IEEE latest standards including Voltmeter Ammeter, Power factor, Active and reactive power meters etc.

Page - 1

3. GRID SYSTEM PROTECTION

a. Bus-bar Protection

A comprehensive bus bar protection shall be adopted and implemented to protect 132kV Bus to avoid any unbalancing and faults. The Bus bar protection based on Kirchhoff current law and Kirchhoff voltage law shall be adopted and implemented.

b. Power Transformers Protection

Differential protection shall act as the main protection for the power transformers. HV and LV Over-current and Earth Fault Relays shall be provided for transformer back-up Protection.

Restricted Earth fault relay (REF) shall be used to protect the transformer from the faults, and it work in parallel to differential relay.

Neutral grounded Resistance (NGR) shall be installed to limit the current from transformer neutral, other transformer protections like buchholz relay, Oil and winding temperature monitor and control also play important role in transformer own safely.

Surge Arrester/Lightning arrestor shall be installed at transformer EHT and HT sides to ground heavy lightning strikes or surges the system.

c. Bus-bar Protection

11kV bus bar protection based on Kirchhoff current law and Kirchhoff voltage law shall be adopted to protect the bus-bar from any unbalancing.

4. DISTRIBUTION SYSTEM PROTECTION

a. 11 kV Switchgear Incoming /Outgoing Panel Protection

Protection of 11 kV switchgears, incoming/outgoing feeders shall comprise overcurrent relays for phase and earth faults. Effective grading between the over-current and earth fault relays of the outgoing feeders at grid stations and those relays at the downstream 11 kV network shall be ensured.



b. 11kV-Downstream Feeder Protection

11kV Out-going feeder Protection shall be ensured at switching stations, RMUs and PMUs high quality, best performance relays with sensitivity and selectivity shall be installed to isolate faulty portion of the network in minimum possible time. Appropriate size and standard/approved VCBs shall be used to cut off at high fault currents.

5. DISTRIBUTION TRANSFORMER PROTECTION

The distribution transformers shall step down the voltage from 11 kV to 415 Volts. Protection of these transformers shall comprise over-current and earth fault relays on HV side.

Energy measurement system shall be incorporated at suitable points in the network to measure energy exported to various feeders and circuits. All measuring equipment shall be according to NEPRA/IEC/IEEE standards including Voltmeter Ammeter, Power factor, Active and reactive power meters etc.

The distribution losses will be monitored through smart metering/grid systems.

LT out-going circuits from the distribution transformer shall be protected through high speed good performance circuit breakers to isolate faulty circuit.

All measuring instruments shall have the provision for connection to SCADA/HMI. All control and measuring instruments will be according to IEC/IEEE standards.

6. FEEDER PILLAR BOX PROTECTION (415/230V)

At feeder pillar box consumer service stability and protection shall be the high priority, fault protection shall be ensured by using approved quality MCCBs/HRC fuse. Those circuit breakers/HRC fuses shall be installed at main incoming and outgoing cables circuit. Proper size and approved manufacturer, high quality Circuit breakers/HRC fuses shall be installed for each consumer out going for service cable protection.

DL Addi Item No. 8-k

Type of Metering System to be used

1. METERING TYPE

All categories of consumer metering shall be in accordance with the assessed/sanctioned load, to enable correct reading of consumer, these shall be:-

- Single Phase Meter For load <5kW
- Three Phase Meter For load >5kW <40kW
- CTO Meter For load ≥40kW (LV BS)
- MV Meter For 11kV metering (MV BS)

2. METERING SYSTEM

Energy measurement system is designed to calculate energy in and out from Power Transformer and energy exported to various Medium Voltage (11kV) feeders and 132kV transmission circuits.

All metering instruments, summation equipment and tele-metering instruments are designed to be of the smart IED/AMR type and are designed to communicate with the DISCO-SCADA system.

The energy meters shall be compliant to following regulatory standards and:-

- IEC 62052-11
- IEC 62053-21
- EN 50470-3
- IEC 62053-22
- IEC 62053-23

Page - 1

The metering devices shall allow to measure MWh or kWh and MVArh or kVArh and as an option measuring of import and export of active and reactive energy in the same instrument.

The combination meters (kWh/kVArh) shall be able to register the two rate MWh or kWh (two registers) for one direction, or a single rate MWh or kWh for two directions (import/export), a single rate MVArh or kVArh for leading and lagging reactive energy (two registers).

The meter shall have two independent electronic output contacts (one for MWh or kWh and one for MVArh or kVArh) for re-transmitting to an external totalizer.

Two other independent output contacts for retransmitting to a tele-metering or supervisory control system are required. These potential free output contacts shall be mercury wetted and bounce free and equipped with a built-in contact protection.

The MWh or kWh-meters the accuracy shall be according to IEC 62052-11 and IEC 62053-22, the MVArh or kVArh-meters shall be of class 3.

The meters must be able to register very low initial reading, i.e. shall start at less than 0.05 % of the load.

On Grid Net metering facility shall be provided to consumers as per NEPRA Laws.

ANNEX - F-17

METERING INSTALLATION AND TESTING FACILITIES

The information regarding the metering installation and testing facilities of the system is appended herein below.



DL AddI Item No. 8-I

Metering Installation and Testing Facilities

1. METERING INSTALLATION

Meter Installation shall be in accordance with the guidelines issued by NEPRA in CSM-21.

Metering installation of all categories of consumers shall be fixed at any convenient/proper place outside the premises of the consumer. It shall be the responsibility of the consumer to provide a safe and accessible location to DISCO for setting up of the metering installation at the premises.

The metering installation shall be fixed at a reasonable height from the ground level or at a level from where the meter reading/taking reading snapshot is possible without using climbing devices.

Meters shall be installed in accordance with the latest industry standards and workmanship to ensure safety and security of the metering installation.

2. TESTING FACILITY

All energy meters shall be fully calibrated and tested by approved labs before installation.

DISCO will establish its own testing facility to ensure meters are running as per the approved standards.

For any change in kWh consumption meter will be tested on site to identify slow/fast pattern of the consumption.

On-site calibration facilities shall be provided to enable the service engineer to modify/offset the error curve with defined very small values/steps.

In case of any complaint by consumer to EIK/NEPRA existing meter will not be dismantled but a check meter will be installed in parallel to ascertain the anomaly.



DL Addl Item No. 8-m

Communication System

1. GENERAL

A communication system in a distribution network is essential for monitoring and controlling the network's operations. Different department like operation, maintenance, complaint and customer care centers shall have efficient communication system with upgraded internet/intercom facilities with wireless telephony facilities supported by necessary equipment like digitally equipped operator console with updated hardware and software systems. The office shall be equipped with upgraded Human machine interface (HMI) with best user friendly soft wares and associated auxiliary facilities like printers and other required output devices.

COMMUNICATION SYSTEM OF NETWORK (DATA ACQUISITION CONTROL AND MONITORING)

2. HMI/SCADA SYSTEM

SCADA System shall be used to collect data from instruments and sensors located at remote sites and to transmit data at load dispatch center (LDC) DHAC for monitoring and controlling purpose. The collected data from sensors and instrument shall be viewed on one or more SCADA host computers HMIs that will be located at Load Dispatch Centre DHAC. Based on the information received from the remote stations, automated or operator-driven supervisory commands can be pushed to remote station control devices which are then referred to as Field device.

3. SCADA LAYOUT AT DHAC

a. Outstation Process Scheme

The process interfaces for acquisition of process information and control data output to the process in the outstations, Remote Terminal Units RTUs shall be installed at outstations (grids and generating stations) and master station (Load dispatch Centre).

b. Telecommunication Scheme

Telecommunication network will be provisioned with a Fiber Optic FO main digital backbone ring of 16 single mode fibers and intermediate digital rings of power line carrier PLC and pilot cable PC links. Telecommunication equipment transmits data up to the LDC.

c. Tele-Control Interface Scheme

The data communication between LDC and outstations will be performed on basis of an IEC Tele-control Communication Protocol 60870-5-101 synchronized by GPS based clock system. Redundant TCI server scheme serves as an interface between outstation and master station.

4. HUMAN MACHINE INTERFACE (HMI)

The human machine interface (HMI) is the interface between the SCADA/EMS and the user. HMI shall provide interactive user-guide, fully mouse supported navigation and operation, automatic updating of linked data in network diagram and tables, Dynamic coloring in network diagrams depending on the status of the represented network segment (e.g. voltage level, source of energy, de-energized, grounded, etc.), support of multi-window operation with as a minimum 4 windows per screen for all video display units (VDUs). HMI shall support multi-screen operation using drag and drop, zooming, panning, and undo functionality. The HMI shall support the world map concept.



5. RTU AND OUTSTATIONS EQUIPMENT / SERVICES

RTU shall have 100% capacity for signals and 50% for additional load. Cabling works and data communication equipment to small RTU comprising RTU/SCADA Interface cabinet(s), etc required for a complete installation. This will be required for interfaces between HMI Automation systems to LDC DHAC through SCADA RTU system.

a. Modems

The modems will be used to provide installed data transmission.

b. Telecommunication Media

The telecommunication media shall provide the means for transportation of information from DHAC Grid to various destinations.

c. Fiber Optic Link Equipment

The telecommunication network shall require the implementation of optical terminal equipment to establish complete fiber optic links.

d. Optical Line Terminal Equipment (OLTE) Design

The OLTE shall be based on SDH hierarchy with transmission at the STM-1 level (155.52 Bit/s), with capability to be upgraded to higher transmission speeds of STM4, STM16, STM64.

e. OLTE Sizing

The STM-1 SDH equipment shall be equipped and wired to meet the project channel requirements

f. Alarm and Test Functions

All of the important system parameters shall be continuously monitored and an alarm signal shall be initiated whenever any system parameter deviates from the set limits. Test function of alarm indicators to ensure workability of alarm indicators.



g. Power Supply

The equipment shall be powered from 48V DC (power supply voltage range shall be from 40 to 58V DC).

h. Optical Distribution Frame (ODF) Design

An ODF shall be provided to act as an interface between the approach fiber optic cable and the optical line terminal equipment for performing optical isolation, which might be required either during testing/commissioning or during the routine maintenance.

i. Approach Fiber Optic Cable Design

The fiber optic cable shall be designed to withstand all prevalent environmental conditions including the effects of high electric and magnetic fields produced in proximity of live power cables.

j. Cable Type

The fiber optic cable shall be of the single mode type equipped with at least 16 fibers complying with ITU-T recommendation G.652 and shall be suitable for underground installation and laying in trenches/cable trays.

k. Fiber Optic Cable Requirements

The cable shall be fully moisture-resistant and meet the longitudinal water tightness test requirements. Considering there is a potential danger through fault or leakage currents, the cable must be non-metallic. The cable shall suitably withstand the mechanical radial stresses and shall be protected against rodents and termites. The crush resistance shall be at least 2kN/10cm. The operating temperature range shall be 0 to +70°C and the cable shall be suitable for operation in tropical climate with humidity approaching 100%.



6. DIGITAL MULTIPLEXER EQUIPMENT

The equipment shall work as the access equipment for fiber optic, digital microwave and HDSL links. Multiplexer racks (separate from that used for OLTE/HDSL) shall be provided for connection to digital microwave radio.

a. Multiplexer sizing

The digital multiplexer shall be equipped and wired to meet the project channel requirements and sized for the spare capacity.

b. Equipment design

The Multiplex Equipment shall be based on Pulse Code Modulation (PCM) techniques. The equipment shall be universal, software-controlled, through Windows based network management system (with direct and remote monitoring and management). It shall be equipped with various interface cards for connection to the facilities i.e. voice, protection signaling, data, alarms, etc. and multiplex them into the standard digital 2MBit/s stream.

c. Protection Signaling

Protection signaling shall be used for operating the distance relays in carrier aided schemes and for direct transfer trip functions in case of breaker failure contingencies.

d. Equipment functions

Two (2) command signals for 132kV network; one signal for operating the distance protection in any of the specified carrier aided schemes and the other for the direct trip function.

e. Digital Protection Signaling Equipment

Digital protection signaling equipment shall be provided for secure and dependable transmission of protection trip signals.

DL Addi Item #8-m

RIAA Barker Gillette

RIAA Barker Gillette

RIAA Barker Gillette Chambers 3rd Floor, 65-W, Executive Heights, Block-H, Fazal-e-Haq Road, Blue Area, Islamabad, Pakistan.

T +92 51 2806321

www.riaabarkergillette.com

17.12.2024

Director

National Electric Power Regulatory Authority (NEPRA) NEPRA Tower, Ataturk Avenue (East), G-5/1, Islamabad

Dear Sir,

Subject: Application filed by DHA Energy Supply Company (Private) Limited For Grant of the

Distribution License

Reference: Your Letter No. NEPRA/R/LAS-100/17148 dated 08 November 2024

We write on behalf of DHA Energy Supply Company (Private) Limited ("DESCO") in relation to the Distribution License application submitted by DESCO to the Authority for the grant of electric power ("Distribution License").

Objections have been raised by NEPRA, citing non-compliance with the criteria and absence of required documents. In light thereof, we have addressed the objections raised and provided the supporting documents in the table below.

DOCUMENTS REQUIRED UNDER THE AMEC REGULATIONS 2021	
Reg 3(4)(c)(i)(c) Certified Copies of Annual Reports	
3(4)(d)(vii) Profile of Sub-contractors	Enclosed herewith.
3(g) & 3(7) Affidavits	Enclosed herewith.
Sch III- Reg 3(4)(a)(C)	Refer to Annex F-7 of the Distribution License
7. Information and docs in support of	Petition, additional information can be found in
distribution expansion and investment	Supply Petition Annexures F-4, F-5, F-6.
8(iv). Type of distribution system	Refer to Annex F-8 of the Distribution License
• • • •	Petition

DOCUMENTS REQUIRED UNDER THE ELIGIBILITY CRITERIA RULES 2023	OUR RESPONSE (CROSS REFERENCING)
3(b) Service territory to be engaged in distribution of electric power	Refer to F-8 (Additional item No. 8b)
3(c) Min solvency requirement (Sch !)	Refer to Annex C-4 for the review engagement showing expenditure of PKR 3.5 billion on Distribution infrastructure along with a letter from DHA Karachi confirming availability of further financial resources.
3(d) Min technical and HR requirement (Sch II)	Refer to Annex C-7
3(e) Ability to ensure prompt and effective	DHA City Karachi is not currently connected to
coordination with the system operator	the national grid or with the system operator. It
	is obtaining power from a nearby captive power
	plant i.e Lucky Cement 2 x 11kv Feeders
•	(through KE currently). However, after obtaining
•	all necessary approvals, DESCO will enter into a
	PPA with Lucky Cement. DHAC will install grid
	station with the requirement of load and shall
	comply all the requirement of NEPRA regulation.
3(f) Ability to ensure its quality:	
i. Establishing and maintaining	
standardized and nondiscriminatory	I .
procedures for the timely provision	1
of connections, redressal of	
complaints, effective customer	
services and maintenance of	
distribution facilities;	iii. Affidavit for compliance with rules is
ii. Ensuring compliance with grid code,	1
distribution code and performance	
standards specified by the Authority	
for distribution of electric power;	v. DESCO will maintain complete and
iii. Fulfilling the requirements of min	accurate records and data for five
technical resources prescribed	years in respect to power
under these rules;	distribution business.
iv. Sharing the information and data	
through website or portal related to	
forecasts, transmission and	
distribution plans;	
v. Maintaining the complete and	
accurate records and data in respect	
of distribution services.	
3(g) Robust IT strategy outlining:	
 Secure and reliable data storage and 	
network infrastructure for hosting	of license.
backend;	
ii. Reliable data backup and recovery	•
system for operation;	
iii. Effective information security	·
mechanism, to ensure	
confidentiality, integrity and the	
secure availability of data; and	

We trust that you will give our application your due consideration and should you require further information or clarification, please do not hesitate to contact us.

Thank you for your time and attention to this matter.

Sincerely,

For and on behalf of DHA Energy Supply Company (Private) Limited

RIAA Barker Gillette



DHA CITY KARACHI (DHAC)

KM 50, Motorway M-9(Post Code 75340) Phones: 021-36470008: Fax: 021-36470007

In reply, please quote: No DHAC/D&C/10

Date: 25 Nov 2024

INTER OFFICE NOTE (DESIGN & CONTRACT DTE DHAC)

Subj: Processing of Distribution & Supply Licenses for DHA DESCO in NEPRA

Ref: Minutes of Meeting Ref No DHAC/EDB/19 dated 18 Nov 2024

- 1. Ref Sr # (b) at para 2 of a/r MoM, enclosed please find herewith following documents as **Annex-A**, in hard & soft format:
 - a. Profiles of main Contractors and Consultants engaged in Dev of Elect Infra Works
 - b. Copies of Letter of Award issued to the above Contractors/Consultants
 - 2. Forwarded as desired, please.

Major

Furgan Ahmed Khan, TI (M) (Retd)

AD (Contracts) D&C Dte

To: Mr. Faisal Malik

(Advisor to ADHAC)

CC: Secy Sectt
CE Br, DHAC
E&M Dte, DHAC
Coord Br DHAC

Annex-A

to D&C Dte DHAC ION No DHAC/D&C/10 Dated: <u>25 Nov 2024</u>

Sr	Name of Firm	LOI/Award Letter	Profile
1	M/s NESPAK (Pvt) Ltd	Attach	Attach
2	M/s Osmani & Company Pvt Ltd	«	"
3	M/s ACES	ű.	и
4	M/s OMS (Pvt) Ltd	CC .	«
5	M/s Zeeruk International	и	«
6	M/s HQ 494 Engineer Group (FWO)	«	"
7	M/s HQ Project Directorate NLC(South)	u .	и
8	M/s Pak Elektron Ltd (PEL)	и	u,
9	M/s Badar Engineering Works	CC .	α
10	M/s Qaiser Electric Company	u	u
11	M/s Zaffar Enterprise	·	и
12	M/s Expert Contracting	44	



Pakistan Defence Officers Housing Authority

2/B East Street, Phase-I, DHA, Karachi-75500 (Pakistan) Phones: 021-5886401-5 - Fax: 021-5886406

in reply, please quote: DHA/DCK/CA/D&C/08/2023

M/S National Engineering Services Pakistan (Pvt) Ltd

4th Floor, NICL Building, Abbasi Shaheed Road, In the state of th

Off Shahrah-e-Faisal,

Karachi

Tel: 021-99225430-34, 0300-3577306, Fax: 021-99225424

Subject:

Detail Designing of Infrastructure of 1,000 Acres (Shuhada Land) at DHA City

THE STATE OF THE SECOND

Karachi, di a cara da tan anton este, avas nga

Dear Sir,

The Defence Housing Authority is pleased to award you the subject work with broad terms / conditions and remuneration mentioned in the following paragraphs.

Scope of Work: The scope of work entrusted to "M/S National Engineering Services 2. Pakistan (Pvt) Ltd" is to provide Detailed Designing of Infrastructure, Hydrology Study, Terrain characterization based on Geologic, Geotectonics and Geohazard Assessment and Construction Material Studies for the project according to international engineering practices alongwith its timely completion of the project.

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Remuneration

•	2 44 22	of the control of the Control of the	THE REPORT OF DEPTH SECTIONS.	
o(11 ovi)			Rate / Cost (Rs)	
galgy inter-	1	Detailed designing of Infrastructure, drawings, BOQs & tendering documents / activities	of Engineering Estimate including SST	
	b.	Hydrology Study	- (Lump Sum)	
-	c.	Terrain characterization based on Geologic, Geotectonics and Geohazard Assessment and Construction Material Studies	Rs (Lump Sum)	

5. Project Control:-

Controlling Officer

- Director Development DCK (South)

Engineer Incharge

- To be nominated by Director Dev DCK (South)

CA No DHA/DCK/CA/D&C/08/2023 is allotted to this Contract which shall invariably be quoted in all your correspondence pertaining to this work.

7. Please attend the office within 10 days from the issuance of this letter to discuss contract formalities, sign and complete the contract agreement as per PEC documents) and report to

Director Development DCK (South) immediately after receiving this letter.

Lt Col Rizwan Akram, TI(M) (Retd) A\Director D&C

Copy to: 1) DCK Directorate

2) Finance Directorate

3) Audit Directorate

4) Tech Section DCK

5) Site Office DCK

6) Quality Assurance Section





NESPAK (Pvt.) Limited is Pakistan's premier consultancy organization

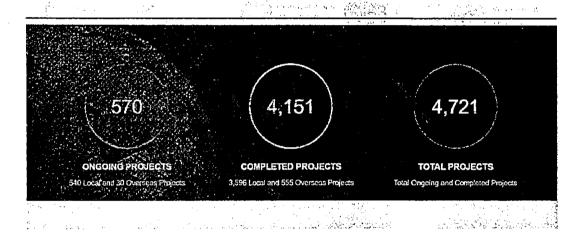
NESPAK was established in 1973 as a private fimited company by the Government of Pakistan. The objective of its creation was to create a pool of talented engineers, attain self-reliance in engineering consultancy and replace foreign consultants..

Currently NESPAK has total strength of over 4900 employees.

The lotal estimated turnover for the year 2023-2024 was Rs. 12.34 billion whereas the total cumulative cost of the projects undertaken by NESPAK is US \$ 351 billion.

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INTERNATIONAL FUNDING AGENCIES REGISTRATIONS

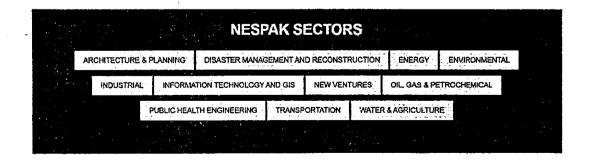












MAJOR CLIENTS







Authoritie

NES National Engineering Services PAK Pakistan (Pvt.) Limited



ABBULUS SECTORS CHUSIONS DIVERSEAS PROJECTS CAREERS RESOURCES

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HESPAK carried out 4.136 local projects, cut of which 540 are origining and 3,596 see completed, costing USS 303 billion.



PLUNCING and out projects in many other pairs of the world. A total of 535 projects socking USS 48 follow have been undertaken by NESPAK in almost 40 defensit countries IESPAK Foreign Offices are in South Arabia, Crison, Algheristan, (2)ter.

COMPANY MANAGEMENT

The Company is managed by a Board of Directors comprising a Chasman, a Managing Director and 11 other Directors. The day-to-day functions of the Company are looked after by the Managing Director assisted by Vice Presidents and Ohiston Heads, Various distrions headed by Vice Presidents/General Managers are broadly divided into project management and specially groups.

FIELDS OF SPECIALIZATION





Neekum Jhekum Hydroelectric... Al-Batinah Coastal Road
Instal receive or the Reserva







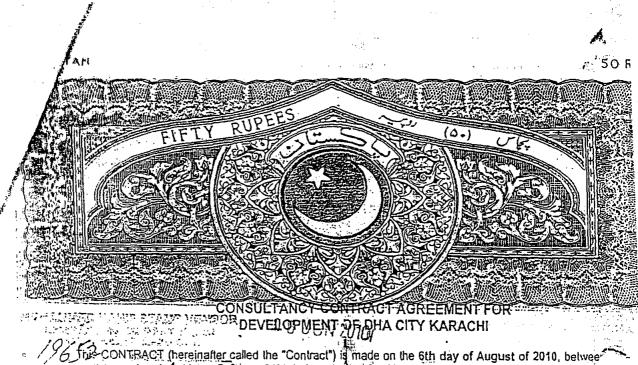






Tunnel construction understa... Sheikh Khalifa Bin Zayed Al... Orange Line Ketro Train Proj... Hankana Sahib Railway Station

Berkmannikel



on the one hand. Pakistan Detense, Officers Housing Authority, 2-B, East Street, Phase I, DHA, Karachi-

"Client" which expression shall include the successors, legal representatives and (hereinafter called the permitted assigns)

and, on the other hand, a consortium consisting of the following entities, each of which will be liable to the ·Client for its specific part of the works and obligations for the project under this Contract, namely:

M/s Osmani & Co. (Pvt.) Ltd., Consulting Engineers, Architects & Planners (Lead Firm) Osmani House, 245/2-K; Block 6; PECHS, Karachi-75400, Pakistaning and Archive and a Tel.: +92-21-34536007/2008 Fax: +92-21-34534691 Email: ocl-khi@osmani.com

Formed Consortium with following foreign Specialist Associates

Doxiadis Associates Consultants on Development & Ekistics S.A. 13 Aegidon & Seneka Str., New Kifissia ii) 145 64 Alhens, Greece - Tel.: +30-210 62 46 300 Fax.: +30-210 62 46 399 E-mail: doxiadis@doxiadis.com

> M/s Robert Mathew, Johnson Marshall & Partners (RMJM International Architectural Practice 27th Floor, Monarch Towers

1 Shaikh Zayed Road, P.O. Box. 6126, Dubai, UAE

Thereinafter collectively called the "Consultants" which expression shall include its successors, legal representatives and permitted assigns).

WHEREAS

- (a) the Client has requested the Consultants to provide certain consulting services as defined in the General Conditions of Contract attached to this Contract (hereinafter called the "Services"); and
- the Consultants, having represented to the Client that they have the required professional (b) skills, and personnel and technical resources, have agreed to provide the Services on the terms and conditions set forth in this Contract; DOXIADIS ASSOCIATES

NOW THEREFORE the Parties hereby agree as follows:



Mirming documents attached hereto shall be deemed to form an integral part of this Contract:

the Ceneral Conditions of Contract;

the Special Conditions of Contract; The Contracts in account (h)

the following Appendices:

Appendix A: Description of Services ...

Appendix B: Reporting Requirements

Appendix C: Key Personnel and Sub-consultants

Appendix D: Breakdown of Contract Price in Foreign Currency

Appendix E: Breakdown of Contract Price In Local Currency

Appendix F: Services & Facilities to be Provided By the Client

Appendix G: Integrity Pact (for Services above PKR 10 Million)

The mutual rights and obligations of the Client and the Consultants shall be as set forth in the Contract, in particular:

- where (a) when the Consultants shall carry out the Services in accordance with the provisions of the title Septem Contract; and
 - the Client shall make payments to the Consultants in accordance with the provisions of the Her and Still behalf of \$1

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their itespective names in two identical parts each of which shall be deemed as the original, as of the day, month and year first above written.

Witness

For and on behalf of

PAKISTAN DEFENCE OFFICERS HOUSING AUTHORITY KARACHI (DHA KARACHI)

CLIENT'S NAME

Witness

Name Brig (R) Iftikhar Halder, SI (M) Title Senior Project Director, DHA

-Signature

Name Lt Col (Retd) Almai Rasheed, TI(M)

Secretary DHA

(Seal)

POBERT MATTHEW JOHNSON MARSHALL AND PARTNERS P.O.BOX: 8126, DUBAI - U.

For and on behalf of

OSMANI & COMPANY

-Lead Consultant of Consortium



Wilness

Signature Atif Inam Osmani Name .

Director

Signature

Arif Inam Osmani Director Name

Title :

Page 3

(Seal)

AUDITED FINANCIAL STATEMENTS OF DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

FOR THE YEAR ENDED JUNE 30, 2023



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Piot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail: :info@rsrfr.com

Website: www.rsrir.com
Other Offices at

Lahore - Rawalpindi / Islamabad

INDEPENDENT AUDITORS' REPORT

To the members of DHA Energy Supply Company (Private) Limited

REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS

Opinion

We have audited the annexed financial statements of M/s. DHA Energy Supply Company (Private) Limited ('the Company'), which comprise the statement of financial position as at June 30, 2023, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information ('the financial statements'), and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and, respectively, give a true and fair view of the state of the Company's affairs as at June 30, 2023 and of the profit, total comprehensive income, the changes in equity and its cash flows for the year then ended.

Basis for Opinion

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

Emphasis of matter

We draw attention to note 1.2 to the financial statements, which describes uncertainty about the grant of distribution license to the Company. Our opinion is not modified in respect of this matter.

Responsibilities of Management and Board of Directors for the Financial Statements

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



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Plot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail: info@rsrir.com Website: www.rsrir.com Other Offices at Lahore - Rawalpindi / Islamabad

-:2:-

Responsibilities of Management and Board of Directors for the Financial Statements (continued)

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

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

Auditor's Responsibilities for the Audit of the Financial Statements

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

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

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

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

Cont'd ... P/3



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Plot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail :info@rsrir.com Website: www.rsrir.com

Other Offices at

Lahore - Rawalpindi / Islamabad

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REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

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

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

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

RAHMAN SARFARAZ RAHIM 10BAL RAFIO Chartered Accountants

Karachi

Date:

May 31, 2024

UDIN:

AR202310213ner8wzxc2

Statement of Financial Position

Aa at June 30, 2023

		2023	2022
ASSETS	Note	Rupe	es ———
Current assets		-	
Receivable from holding company	5	400,000	150,000
Taxation - net		3,967,812	4,077,981
Bank balances	6	17,652,189	15,801,415
Total assets	_ =	22,020,001	20,029,396
EQUITY AND LIABILITIES			
Share capital and reserves			
Authorized capital	7 =	100,000,000	100,000,000
Issued, subscribed and paid up capital	7	10,000,000	10,000,000
Revenue reserve			
Unapprorpriated profits	İ	5,815,406	3,846,381
••	_	15,815,406	13,846,381
Current liabilities	•		
Accrued liabilities	8 Г	134,320	112,740
Payable to ultimate parent	9	6,070,275	6,070,275
-	• • • • • • • • • • • • • • • • • • •	6,204,595	6,183,015
Contingencies and commitments	10		
Total equity and liabilities	_	22,020,001	20,029,396
	=		

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive Hand puldus
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Director

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Statement of Profit or Loss

For the year ended June 30, 2023

	Note	2023 Rupe	2022 es
Administrative expenses	11	(85,970)	(83,075)
Other income	12	2,547,252	1,229,386
Profit before taxation	,	2,461,282	1,146,311
Taxation	13	(492,256)	(240,725)
Profit after taxation		1,969,026	905,586

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

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Statement of Comprehensive Income

For the year ended June 30, 2023

	2023 Rupee	2022 s ———
Profit after taxation	1,969,026	905,586
Other comprehensive income	-	-
Total comprehensive income	1,969,026	905,586

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

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Director



Statement of Changes in Equity

For the year ended June 30, 2023

	Issued, subscribed and paid-up capital	Unappropriated profits	Total
		Rupees	
Balance as at June 30, 2021	10,000,000	2,940,795	12,940,795
Total comprehensive income for the year ended June 30, 2022			
- Profit after taxation - Other comprehensive income		905,586	905,586
	-	905,586	905,586
Balance as at June 30, 2022	10,000,000	3,846,381	13,846,381
Total comprehensive income for the year ended June 30, 2023			
- Profit after taxation	-	1,969,026	1,969,026
- Other comprehensive income		1,969,026	1,969,026
Balance as at June 30, 2023	10,000,000	5,815,406	15,815,406

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

CERTIFIED TRUE COPY

Director

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Statement of Cash Flows

For the year ended June 30, 2023

	2023 D	2022
Cash flows from Operating Activities	Rupees	5
Profit before taxation	2,461,282	1,146,311
Working Capital Changes:		
Increase in receivable from holding company	(250,000)	(150,000)
Increase in accrued liabilities	21,580	62,580
- -	2,232,862	1,058,891
Income tax paid	(382,088)	(182,194)
Net cash from operating activities	1,850,774	876,697
Net change in cash and cash equivalents	1,850,774	876,697
Cash and cash equivalents at beginning of the year	15,801,415	14,924,718
Cash and cash equivalents at end of the year	17,652,189	15,801,415

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

CERTIFIED TRUE COPY

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Notes to the Financial Statements

For the year ended June 30, 2023

1. LEGAL STATUS AND NATURE OF BUSINESS

- 1.1 DHA Energy Supply Company (Private) Limited (the Company) was incorporated in Pakistan on March 02, 2017 as a private company limited by shares under the Companies Ordinance, 1984 (now Companies Act, 2017). The registered office of the Company is located at 2-B, East Street, Phase-I, DHA, Karachi, in the province of Sindh. The principal objectives of the Company are to carry out the businesses of generating, purchasing, importing, transforming, converting, distributing, supplying, exporting and dealing in electricity and all other forms of energy and products or services associated therewith and of promoting the conservation and efficient use of electricity and to perform all other acts which are necessary or incidental to the business of electricity generation, transmission, distribution and supply.
- 1.2 The Company had applied for distribution license to supply electric power in DHA Karachi areas. K-Electric (KE) filed a suit in the Sindh High Court (SHC) against the Company, National Electric Power Regulatory Authority (NEPRA) and others challenging the same as KE had been granted "exclusive right" to generate and distribute electric power in that area. However, effective July 2023, the exclusive right of KE has been revoked and other entities are also allowed to supply electric power in Karachi. Therefore, the Company intends to take up its application filed earlier with NEPRA and expects that distribution license will be granted to the Company.
- 1.3 The Company is a wholly owned subsidiary of DHA Energy and Services (Private) Limited. The ultimate parent of the Company is Pakistan Defence Officers Housing Authority.
- 1.4 These financial statements are presented as stand alone financial statements.

2. BASIS OF PREPARATION

2.1 Statement of compliance

These financial statements have been prepared in accordance with the accounting and reporting standards as applicable in Pakistan. The accounting and reporting standards applicable in Pakistan comprise of:

- International Financial Reporting Standard (IFRS) issued by the International Accounting Standards Board (IASB) as notified under the Companies Act, 2017; and
- Provisions of and directives issued under the Companies Act, 2017.

Where provisions of and directives issued under the Companies Act, 2017 differ from the IFRS, the provisions of and directives issued under the Companies Act, 2017 have been followed.

2.2 Basis of measurement

These financial statements have been prepared under the historical cost convention.

2.3 Functional and presentation currency

These financial statements are presented in Pakistani Rupees, which is the Company's functional and presentation currency.

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2.4 Critical accounting estimates and judgments

The preparation of the financial statements in conformity with approved accounting standards, as applicable in Pakistan, requires management to make estimates, assumptions and use judgment that affect the application of accounting policies and the reported amount of assets, liabilities, income and expenses. Estimates, assumptions and judgements are continually evaluated and are based on historical experience and other factors that are believed to be reasonable under the circumstances.

Revisions to accounting estimates are recognized in the period in which the estimates are revised. There are no areas where judgement and estimates have been used in these financial statements.

3. NEW ACCOUNTING PRONOUNCEMENTS

3.1 Amendments to published accounting and reporting standards which became effective during the year;

There were certain amendments to the accounting and reporting standards which became mandatory for the Company during the year. However, the amendments did not have any significant impact on the financial reporting of the Company and, therefore, have not been disclosed in these financial statements.

3.2 Amendments to published accounting and reporting standards that are not yet effective:

There are certain amendments to the accounting and reporting standards that will be mandatory for the Company's annual accounting periods beginning on or after July 1, 2023. However, these amendments will not have any significant impact on the financial reporting of the Company and, therefore, have not been disclosed in these financial statements.

4. SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements have been consistently applied to all the periods presented.

4.1 Provisions

Provisions are recognized when the Company has a present, legal or constructive obligation as a result of past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate of the amount can be made. However, provisions are reviewed at each reporting date and adjusted to reflect the current best estimate.

4.2 Financial assets

4.2.1 Initial recognition, classification and measurement

The Company recognizes a financial asset when and only when it becomes a party to the contractual provisions of the instrument evidencing investment. The Company classifies its financial assets into either of following three categories:

- (a) financial assets measured at amortized cost;
- (b) financial assets at fair value through other comprehensive income (FVOCI); and
- (c) financial assets at fair value through profit or loss (FVTPL).

(a) Financial assets measured at amortized cost

A financial asset is measured at amortized cost if it is held within business model whose objective is to hold assets to collect contractual cash flows, and its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on principal amount outstanding.

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Such financial assets are initially measured at fair value plus transaction costs that are directly attributable to the acquisition or issue thereof.

(b) Financial assets at FVOCI

A financial asset is classified as at fair value through other comprehensive income when it is held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets and its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Such financial assets are initially measured at fair value plus transaction costs that are directly attributable to the acquisition or issue thereof.

(c) Financial assets at FVTPL

A financial asset shall be measured at fair value through profit or loss unless it is measured at amortised cost or at fair value through other comprehensive income, as aforesaid. However, for an investment in equity instrument which is not held for trading, the Company may make an irrevocable election to present in other comprehensive income subsequent changes in the fair value of the investment.

Such financial assets are initially measured at fair value.

4.2.2 Subsequent measurement

(a) Financial assets measured at amortized cost

These assets are subsequently measured at amortized cost (determined using the effective interest method) less accumulated impairment losses.

Interest / markup income, foreign exchange gains and losses and impairment losses arising from such financial assets are recognized in profit or loss.

(b) Financial assets at FVOCI

These are subsequently measured at fair value less accumulated impairment losses.

A gain or loss on a financial asset measured at fair value through other comprehensive income in accordance is recognised in other comprehensive income, except for impairment gains or losses and foreign exchange gains and losses, until the financial asset is derecognised or reclassified. When the financial asset is derecognised the cumulative gain or loss previously recognised in other comprehensive income is reclassified from equity to profit or loss as a reclassification adjustment. Interest is calculated using the effective interest method and is recognised in profit or loss.

(c) Financial assets at FVTPL

These assets are subsequently measured at fair value.

Net gains or losses arising from remeasurement of such financial assets as well as any interest income accruing thereon are recognized in the statement of profit or loss. However, for an investment in equity instrument which is not held for trading and for which the Company has made an irrevocable election to present in other comprehensive income subsequent changes in the fair value of the investment, such gains or losses are recognized in other comprehensive income. Further, when such investment is disposed off, the cumulative gain or loss previously recognised in other comprehensive income is not reclassified from equity to profit or loss.

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4.2.3 Impairment

The Company recognises a loss allowance for expected credit losses in respect of financial assets measured at amortised cost.

For trade receivables, the Company applies the IFRS 9 'Simplified Approach' to measuring expected credit losses which uses a lifetime expected loss allowance.

For other financial assets, the Company applies the IFRS 9 'General Approach' to measuring expected credit losses whereby the Company measures the loss allowance for a financial instrument at an amount equal to the lifetime expected credit losses if the credit risk on that financial instrument has increased significantly since initial recognition. However, if, at the reporting date, the credit risk on a financial instrument has not increased significantly since initial recognition, the Company measures the loss allowance for that financial instrument at an amount equal to 12-month expected credit losses.

The Company measures expected credit losses on financial assets in a way that reflects an unbiased and probability-weighted amount, time value of money and reasonable and supportable information at the reporting date about the past events, current conditions and forecast of future economic conditions. The Company recognises in profit or loss, as an impairment loss, the amount of expected credit losses (or reversal) that is required to adjust the loss allowance at the reporting date.

Loss allowances for financial assets measured at amortised cost are deducted from the gross carrying amount of the assets.

4.2.4 De-recognition

Financial assets are derecognized when the rights to receive cash flows from the financial assets have expired or have been transferred, and the Company has transferred substantially all risks and rewards of ownership.

4.3 Financial liabilities

Financial liabilities are classified as measured at amortized cost or 'at fair value through profit or loss' (FVTPL). A financial liability is classified as at FVTPL if it is classified as held for trading, it is a derivative or it is designated as such on initial recognition. Financial liabilities at FVTPL are measured at fair value and net gains and losses, including any interest expense, are recognized in the statement of profit or loss and other comprehensive income.

Other financial liabilities are subsequently measured at amortized cost using the effective interest method. Interest expense and foreign exchange gains and losses are recognized in the statement of profit or loss. Any gain or loss on de-recognition is also recognized in the statement of profit or loss and other comprehensive income.

Financial liabilities are derecognised when obligation under the liability is discharged, cancelled or expired.

4.4 Cash and cash equivalents

For the purpose of statement of cash flows, cash and cash equivalents comprises balances with banks.

4.5 Taxation

Provision for current taxation is based on the taxable income for the period determined in accordance with the prevailing law for taxation on income. The charge for current tax is calculated using applicable tax rates, based on tax laws enacted or substantively enacted at the end of the reporting period.

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4.6 Accrued expenses

These are carried at cost which is the fair value of the consideration to be paid in the future for goods and services received, whether or not billed to the Company.

4.7 Interest income

Interest income is accrued on a time proportionate basis, by reference to the principal outstanding and at the applicable effective interest rate.

4.8 Foreign currency translation

Transactions in foreign currencies are translated in Pakistan Rupees using the exchange rate prevailing at the dates of transaction. Monetary assets and liabilities in foreign currencies are translated into Pakistan Rupees using the rates of exchange at the reporting date. Exchange gains and losses from the settlement of foreign currency transactions and translation of monetary assets and liabilities denominated in foreign currencies at the reporting date are included in statement of profit or loss account.

4.9 Offsetting financial assets and financial liabilities

A financial asset and a financial liability is offset and the net amount is reported in the statement of financial position, if the Company has a legally enforceable right to set off, and also intends either to settle on a net basis or to realize the asset and settle the liability simultaneously.

4.10 Borrowings and borrowing costs

Borrowings are recognised initially at fair value net of transaction costs, and subsequently at amortised cost using the effective interest method. Borrowings payable within next twelve months are classified as current liability. Borrowing costs are recognized as an expense in the period in which they are incurred except where such costs are directly attributable to the acquisition, construction or production of a qualifying asset in which such costs are capitalized as part of the cost of that asset.

5. RECEIVABLE FROM HOLDING COMPANY

This represents amount due from DHA Energy and Services (Private) Limited (the Holding Company) in respect of funds transferred to them.

2023

2022

15,801,415
2022
00,000,000
10,000,000

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- 7.1 The Company has one class of ordinary shares which carries no right to fixed income. The shareholders are entitled to one vote per share at meetings of the Company. All shares rank equally with regard to the Company's residual assets.
- 7.2 As at June 30, 2023, all shares of the Company were held by DHA Energy and Services (Private) Limited (the Holding Company).

8.	ACCRUED LIABILITIES	Note	2023 Rupees	2022
	Audit fees Professional fee Withholding sales tax payable		106,200 25,000 3,120 134.320	82,600 27,500 2,640 112,740
9.	PAYABLE TO ULTIMATE PARENT			÷ •
	Expenses incurred on behalf of the Company	9.1	6.070,275	6,070,275
0.1	FINE CONTRACTOR OF THE CONTRAC			

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9.1 These amounts were paid by the ultimate parent to the vendors to support working capital.

10. CONTINGENCIES AND COMMITMENTS

There were no contingencies and commitments outstanding as at June 30, 2023 (2022: as disclosed in note 1.2)

11.	ADMINISTRATIVE EXPENSES	Note	2023 Rupe	2022 es
	Professional charges Auditors' remuneration Fees and subscription	11.1	15,000 59,000 11,970 85,970	27,500 47,200 8,375 83.075
11.1	Auditors' remuneration			
	Audit fees Out of pocket expenses		54,000 5,000 59,000	43,200 4,000 47,200
12.	OTHER INCOME			
	Interest on savings account Other income		2,547,252 	1,214,626 14,760 1,229,386
-13.	TAXATION			
	Сштепт		492,256	240,725

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14. TRANSACTIONS WITH RELATED PARTIES

Related parties of the Company comprise of parent entity, companies under common control, key management personnel and directors (as well as their close family members). Details of transactions and balances with related parties, except as disclosed elsewhere in the financial statements are given below:

	Name of Related Party	Relationship with the Company	Nature of transaction		
				2023	2022
				Rupees	
	DHA Energy and Services (Private) Limited	Holding company	Funds transferred	400,000	150,000
				2023	2022
15.	FINANCIAL INSTRUMEN	UMENTS		Rupees	
15.1	Financial instruments by ca				
	Financial assets measured at amortized cost				
	Receivable from holding com	pany		400,000	150,000
	Bank balances	•		17,652,189	15,801,415
				18,052,189	15,951,415
	Financial liabilities measured at amortized cost				
	Accrued liabilities			131,200	110,100
	Payable to ultimate parent			6,070,275	6,070,275
				6,201,475	6.180,375
15.2	Financial risk analysis				

The Company has exposure to the following risks from financial instruments:

- Market risk
- Credit risk
- Liquidity risk

This note presents information about the nature and extent of risk to which the Company is exposed, arising from financial instruments and the risk management framework of the Company.

15.2.1 Market risk

Market risk is the risk that the value of the financial instrument may fluctuate as a result of changes in market interest rates, foreign exchange rates or the equity prices due to a change in credit rating of the issuer or the instrument, change in market sentiments, speculative activities, supply and demand of securities and liquidity in the market. Market risk comprises of three types of risk: currency risk, interest rate risk and other price risk.

(i) Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. The Company's exposure to the risk of changes in foreign exchange rates relates primarily to the Company's operating activities (when revenue or expense are denominated in a different currency from the Company's functional currency). As at June 30, 2023 the Company is not exposed to currency risk.

Rem

(ii) Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Company's interest rate risk arises from saving account with bank amounting to Rs.17.65 million. The effect of changes in interest rates is not considered to have a material effect on the financial statements.

(iii) Other price risk

Price risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. As at June 30, 2023, the Company is not exposed to price risk.

15.2.2 Credit risk and concentration of credit risk

Credit risk is the risk that one party to a financial instrument will fail to discharge an obligation and cause the other party to incur a financial loss, without taking into account the fair value of any collateral. Concentration of credit risk arises when a number of counter parties are engaged in similar business activities or have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic, political or other conditions. Concentration of credit risk indicates the relative sensitivity of the Company's performance to developments affecting a particular industry. As at June 30, 2023, the financial assets which are subject to credit risk amounted to Rs. 17.65 million which constitute bank balances.

The Company is exposed to credit risk on deposits with bank. The credit risk on liquid funds is limited because the counter party is bank with reasonably high credit ratings i.e. A-2 in short term and A- for long term.

15.2.3 Liquidity risk

Liquidity risk represents the risk that the Company will encounter difficulties in meeting obligations associated with financial liabilities that are settled by delivering cash or another financial asset.

The table below summarizes the maturity profile of the Company's financial liabilities based on contractual undiscounted payments.

	Within one year	1 to 5 years	Total
	Rupees		
June 30, 2023			
Payable to ultimate parent	6,070,275		6,070,275
Accrued liabilities	131,200		131,200
	6,201,475		6,201,475
June 30, 2022			
Payable to ultimate parent	6,070,275	-	6,070,275
Accrued liabilities	110,100		110,100
	6,180,375		6,180,375

15.2.4 Risk management policies

Since the Company has not commenced its operations, it has not yet formulated its formal risk management policies.

15.2.5 Capital management

The Company's objectives when managing capital are to safeguard the Company's ability to continue as a going concern in order to provide adequate returns to shareholders, benefit to other stakeholders and to maintain an optimal capital structure to reduce the cost of capital. The Company is not subject to any externally imposed capital requirements.

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16. FAIR VALUE OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable willing parties in an arm's length transaction other than in a forced or liquidation sale.

The carrying values of all financial assets and liabilities reflected in the financial statements approximate their fair values.

Fair value hierarchy

The following table provides an analysis of financial instruments that are measured subsequent to initial recognition at fair value, grouped into Levels 1 to 3 based on the degree to which the fair value is observable.

- Level 1: fair value measurements are those derived from quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: fair value measurements are those derived from inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices).
- Level 3: fair value measurements are those derived from valuation techniques that include inputs for the
 asset or liability that are not based on observable market data (unobservable inputs).

As at reporting date, the Company does not hold any financial instruments which have been carried at fair values.

17. DATE OF AUTHORISATION FOR ISSUE

These financial statements were authorised for issue by the Board of Directors of the Company on 16 maf 2024

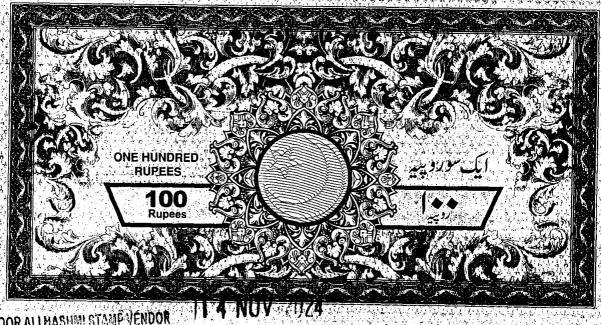
18. GENERAL

- 18.1 Figures have been rounded off to the nearest Rupee.
- 18.2 There was no person in the employment of the Company. The affairs of the Company are managed through the staff of ultimate parent.

Chief Executive

Director

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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique S/O, Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that DESCO applied for a distribution license vide application dated 16.06.2017. The Sindh High Court however issued a stay order against the processing of this application in Suit No. 2259/2017. This application by DESCO has remained pending with NEPRA till date, however, due to the promulgation of the NEPRA Amendment Act, 2018 it may be considered infructuous. DESCO has not been granted any other license, till date, under the NEPRA Act, 1997. DHA Energy Supply Company (Private) Limited has also not been refused the grant of any license under the NEPRA Act, 1997.

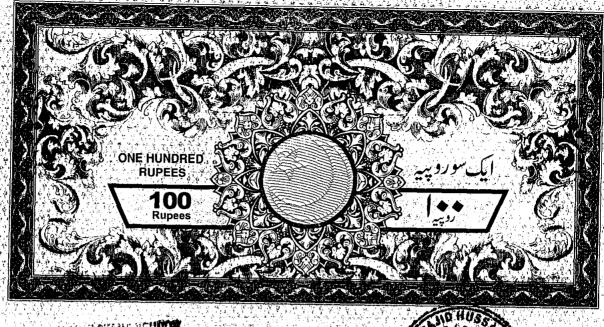
IRFAN ALI ADVOCATE
HOTAPY PUBLIC KARACH, PARISTAN
CELL, USBU-ZELISDU.

5 NOV 2024

(DEPONENT)
Usman Rafique

Director

Dated:



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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that the contents of the accompanying application of DHA Energy Supply Company (Private) Limited for a distribution license, including all attached documents-in-support, are true and correct to the best of my knowledge and belief and that nothing has been concealed.

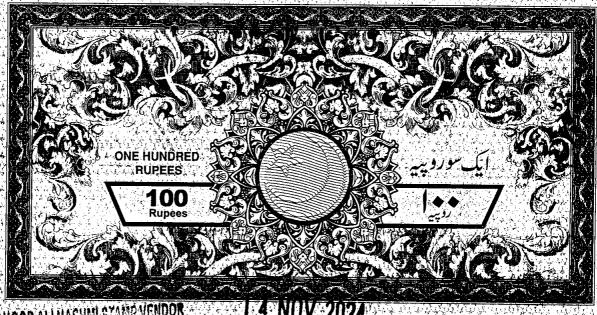
(DEPONENT)
Usman Rafique

Director

Dated: _____

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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, being the duly authorized representative of DHA Energy Supply Company (Private) Limited, duly authorized in this regard by virtue of Board Resolution dated 2nd Sep 2024, hereby solemnly affirm and declare that the Applicant is compliant with and shall always fulfill the obligations imposed on it under the National Electricity Policy and National Electricity Plan made under section 14A of the Act.



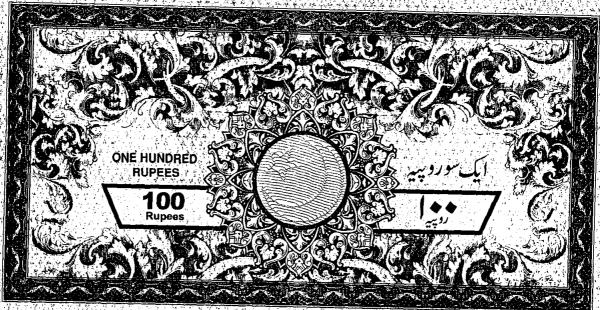
(DEPONENT)

USMAN RAFIQUE

Director

Dated:

2 5 NOV 2024



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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT :

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that DHA Energy Supply Company (Private) Limited has fulfilled all the requirements provided under The Eligibility Criteria (Distribution Licenses) Rules, 2023 for the grant of a distribution license.

ATTESTED

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WANTED THE STATE OF THE

(DEPONENT)
USMAN RAFIQUE
Director

Dated: _____

Qaiser Electric Company

Page No - 12

WHY CHOOSE US?

Choose us because we prioritize your satisfaction. With our exceptional service, expert team, and unwavering commitment, we deliver outstanding results.

We understand your needs and provide tailored solutions, ensuring efficiency and reliability. Trust us to exceed your expectations and build a long-lasting partnership.



Because we've been there and done it.



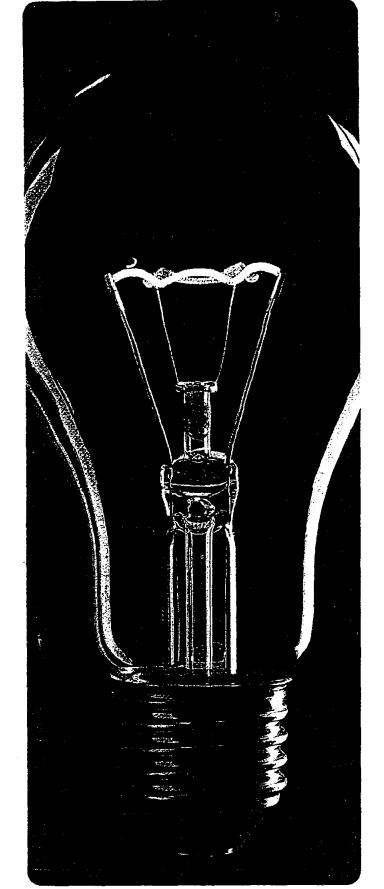
Because we're chosen by professionals.

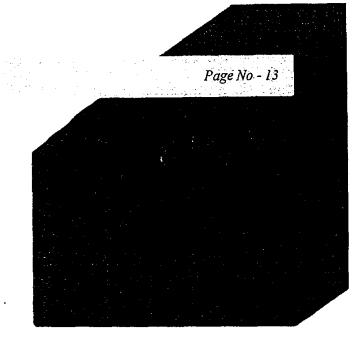


Because we focus on results.



Because we're easy to work with.





Thank You:)

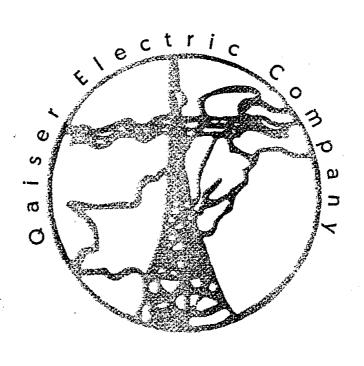
We would like to extend our heartfelt appreciation for taking the time to review our company profile. We are truly grateful for the opportunity to introduce ourselves and showcase the range of services we offer.

Your interest in our company and the trust you have shown in considering us as a potential partner mean a great deal to us. We take immense pride in our commitment to excellence, innovation, and delivering exceptional quality to our clients.

Thank you for considering us as your potential business partner. We look forward to the opportunity to serve you and demonstrate our expertise firsthand.

Best regards,

Qaiser Electric Company



CONTACT US

A-19/2 Block-E Gulshan e Jamal, Karachi Cell: +92 300 2738055, +92 300 0505612 E-mail: qec_01@yahoo.com Website: www.qaiserelectric.com



Pakistan Defence Officers Housing Authority

2/B East Street, Phase-I, DHA, Karachi-75500 (Pakistan)

Phones: 35886401-5 - Fax: 35886406

Date : 16 Jun 2016

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財產組織 Enterprise,

The Fill Phys Phor, Find to 110, 37th Commercial Street, Tanhard Commercial Area, Phase-V, IIIA Karacha
Fel. 021 15835654, 35360640
For

Sobject Electrical Works in Sector-3 (Package-2) at DHA City Karachi.

then Su.

Defence Housing Authority is pleased to award the above work as per scope of search detailed in the Bill of Quantities.

Measurement Contract: The contract shall be measurement contract based out actual quantity of work as executed. The measurement shall be done jointly.

Amount:

- Payment: The payment shall be made through running bills (less retention observ), taxes and deduction on account of mob advance).
- Time: The job will be completed in 12 Months from the date of receipt of Engineer's Notice to commence.
- <u>Defect Liability Period</u>: One year shall be the defect liability period during which defects if any shall be rectified which shall occur due to the use of material or workmanship not in accordance with the contract specifications.
- 7. Rate/Scope of work: As given in Bidding Documents.
- 8. **Specifications**: As given in Bidding Documents.
- 9. <u>Design/Sketch/X-Section</u>: As given in Bidding Documents.
- 10. As Built Drawings: On completion of the works two copies of "As Built" drawings along with tracing copy will be submitted, free of cost.

11. Project Control

a. Controlling Officer :b. Engineer In charge :

Project Director DCK

To be nominated by Project Director DCK



- Documents: Following documents will always be kept at site duly updated and presented on demand by any offr of DHA.
 - a. Inspection Book
 - h. Site Order Book
 - c. Daily Diary
- Performance Bond/Security: You are required to submit the performance security in the prescribed form for the proper performance of this contract within the days of receipt of this letter. The performance security shall be of an amount equal to 10% of the contract price. The performance security may be in the form of either (a) thank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a thank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan or an insurance company having at least AA rating from PACRA/JCR.
- 14. CA No. DHA/DCK/CA/D&C/18/2016 is allotted to this contract which shall invariably be quoted in all correspondence pertaining to this work.
- 15. Please attend this office to sign and complete the contract agreement (as per procedure in vogue), prepared on PEC Documents. You may report to Controlling Officer at Superhighway, DHA City Karachi immediately after receiving this letter.
- 10. Please report in this office within 10 days from issue of this letter to sign the contract documents.

NT COPE

Zarrar Razzaque (TI(M) (Retd) A/Drector D&C

Copy to: 1) DCK Directorate

Together with Schedule-'A' & Drawing/Sketch. Work order will only be issued after receipt of satisfactory work schedule from contractor indicating each activity and %age progress on monthly basis.

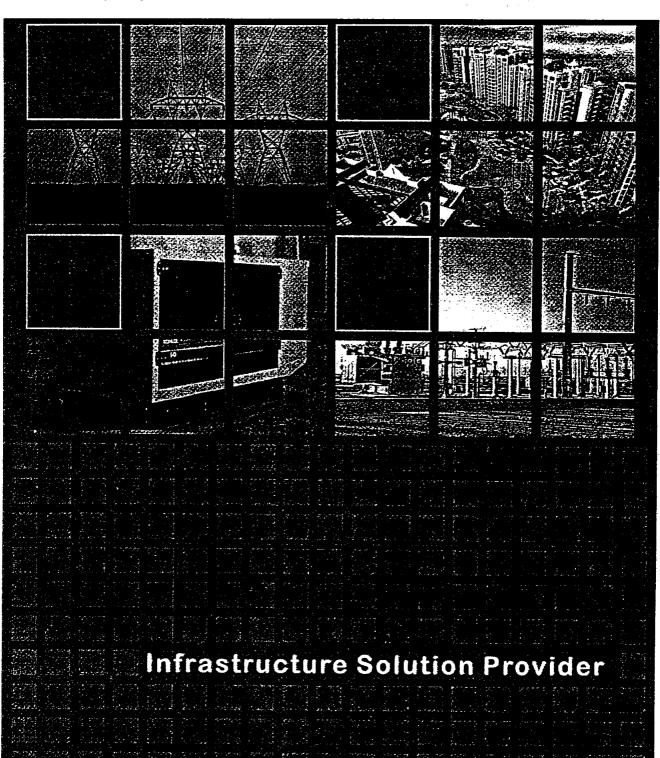
- 2) Finance Directorate
 - 3) Audit Directorate
 - 4) Tech Section DCK5) Site Office DCK
 - 6) ADHA's Inspection Team
 - 7) M/S Osmani & Co (Pvt) Ltd



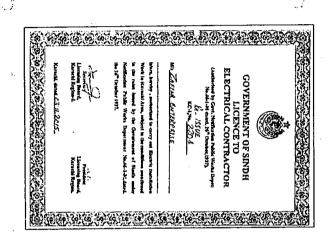


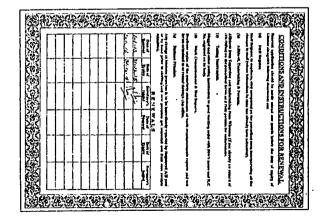
ZAFFAR ENTERPRISE

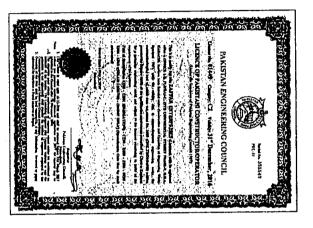
Company Profile

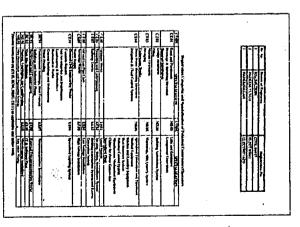












ZE was established in 1984 with the concept to provide infrastructure services in the field of Telecommunication, Power, Civil and General Engineering Services like Designing of Data Centre, External Distribution Network for commercial, residential and Housing Schemes.

Our tremendous depth of professional staff helps to assure completion of projects in minimal response times and includes individuals with highly specialized and unique experience that ensures prompt and qualified responses to any project work.

With the passage of time it has grown significantly since its beginnings and currently employs professional Engineers, Technical Supervisors and Technical staff performing Power infrastructure implementation projects execution work throughout Pakistan with utility companies, government and semi government, multinational, Industrial and commercial organization.

Now ZE offers control integration infrastructure services as well. The ZE has a privilege to work for Multinational, Banks, Companies, Commercial, Residential and Shopping Malls. In the short span of time ZE has earned great reputation in the local market and now emerged as a Leading Company.

OUR MISSION

Our mission and motto of "Engineering with Distinction" is not only meant as a sign of commitment to our clients and valued customers but also serves as a reminder to our staff that distinction comes from being innovative, and innovation combined with quality keeps you at the forefront of the pack.

Our mission is to provide our customers with solutions of Power, Telecommunication, Civil, General Engineering and Control Integration. With its knowledge its expertise in these field, the group has a leading role to play in meeting the customer needs.

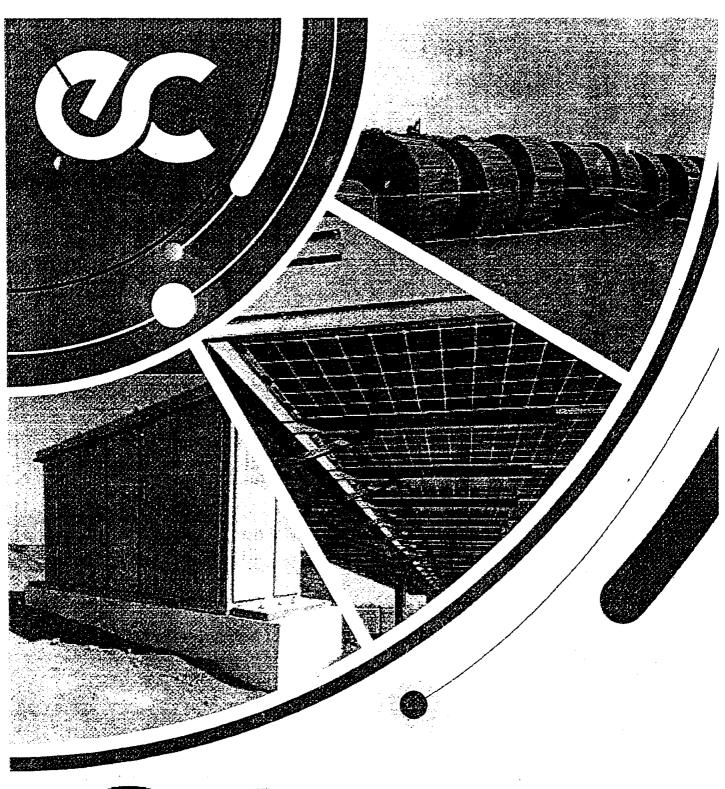
QUALITY ASSURANCE

ZE's Business strategy incorporates a commitment to strive to continually elevate our experience and capabilities. As would be expected, our base of satisfied clients has expanded extensively.

Our senior staff consists of seasoned professionals, all of whom have long careers in the management of Engineering projects for Decades. The management is backed up by a highly capable team of engineers, managers and technical staff. Because of the depth of our professional staff, quality assurance is at the core of every project undertakes. Every project undergoes thorough QA reviews using very detailed checklists to help ensure smooth transitions from the design process, through document production, material procurement.

Our employees understand that professionalism means more than technical ability. This attitude is displayed through the helpful and supportive attitude of every employee, from our reception & secretarial staff to senior management.

We believe that our ability to form successful working relationships with clients, material suppliers and consultants is at the heart of our business. We have an enviable record of maintaining our client relationships, a testament to the personal commitment of our management and staff. It is our goal to furnish a greater level of quality and detail than our competitors. The quality of our work has always been and will always be a core value and will never be compromised by growth.





EXPERT CONTRACTING

Landline: 021-34694894 EXT. 801 Mobile: 0321-3622568, 0333-3343244

Visit @ expertcontracting.com.pk

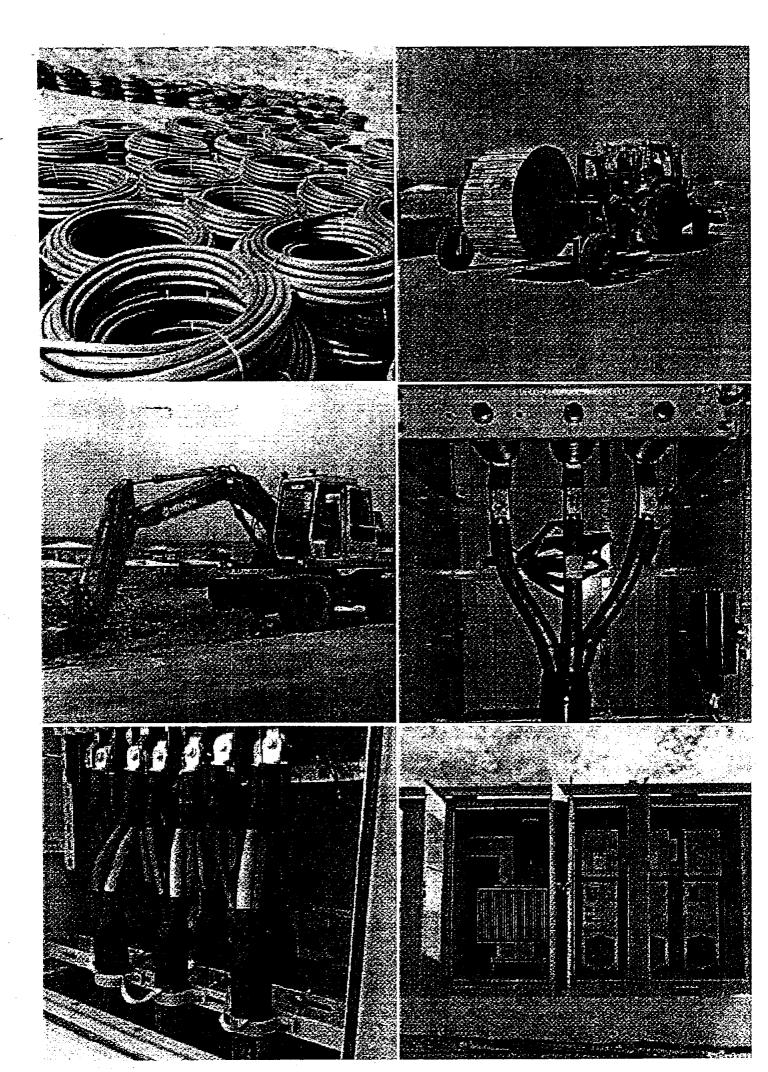


PROFILE

COMPANY

E-mail: sales@expertcontracting.com.pk expertcontracting 114@gmail.com

(R.C.H.S) Phase 2, Scheme 33, Sector 34/A, Opp. Kiran Hospital, Karachi.



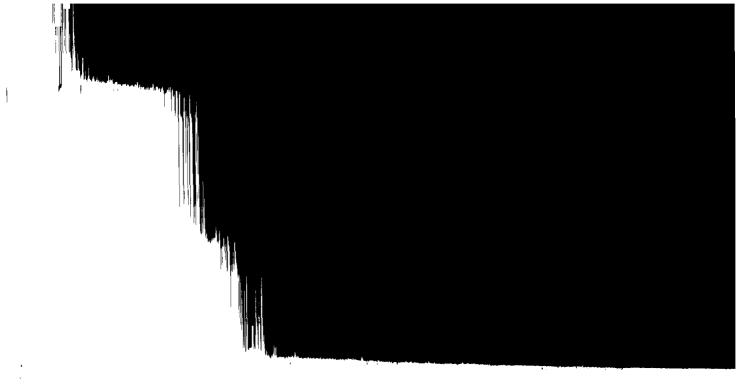


Introduction

Expert Contracting is a team of Engineers capable to undertake diversified assignment related to Electrical Power, Electronics, Computer Engineering and Renewable Energy. Brief introduction of our key team members is appended below:

Engr. Syed Riffat Ali Rizvi, has vast and diversified experience of Power Sector with over 33 Years. His last assignment was Head of Network Management in Port Harcourt Electricity Distribution Company (PHED) Nigeria.

Engr. S. M. Mustafa, Has over 6 Years of experience of MV/LV Network. He is working as Electrical Engineer in our DCK Karachi Project. He has also worked on Agha Khan Grid Station of 132 KV through M/S SIEMENS (ECR).



Engr. S. Ali Murtaza, has over 3 Years of experience as Project Manager and has successfully completed numerous MV/LV Electrification Projects in DCK and other Clients.

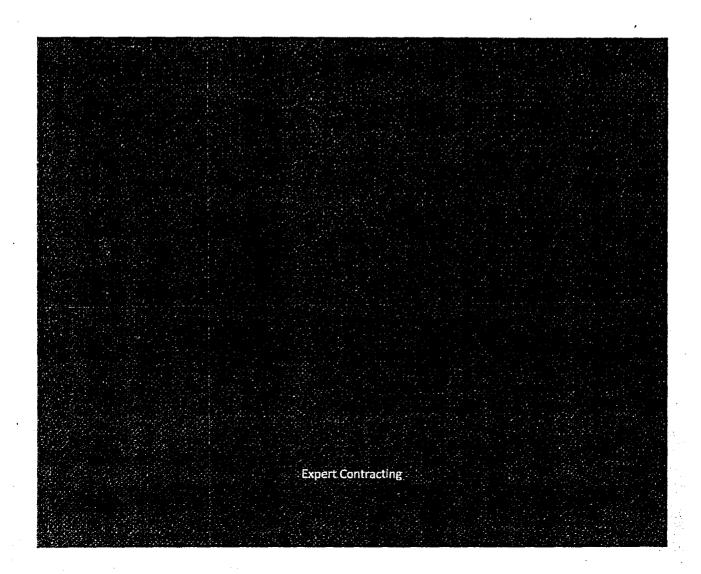
Controlling and Supervisory staff plays important role in success of every project. As such, pool of supervisory staff is also deployed in Project of DHA City, Karachi and for upcoming assignments with in jurisdiction of k-Electric.

Experienced supervisory staff is hired to work on installation testing and commissioning of MV/LV and Renewable Energy Projects. Our supervisors and team are capable to work in other Discos like HESCO, SESCO and QESCO.

Petty Contractors and Unskilled labour is also hired as per requirement of Project and to meet local conditions.

HSEQ is responsibility of everyone, as such, it will be ensured that everyone is capable of professionally discharging HSEQ responsibility. Use of proper PPEs & SPEs will be ensured. Training & Development of staff & officers is integral part of HSEQ plan.





Company Details

marin of the

1. Name of Firm: EXPERT CONTRACTING

2. Income Tax No.: 3794223-9

3. **GST No.:** 32-77-8761-503-93

4. PEC Registration No: C4/E-10903

5. **PEC CODES:** BC-01, BC-02, BC-04, CE-01, CE-04, C E-08, CE-09, CE-10, CE-11, EE-01, EE-02, EE-03, EE-04, EE-05, EE-06, EE-07, EE-08, EE-09, EE-10, EE-11, ME-01, ME-02, ME-04, ME-05, ME-06, ME-07

6. Bank Account:

Bank Name: Habib Bank Ltd

Account Title: EXPERT CONTRACTING

Account# 03697901199855

Contact Details:

Contact Person: Syed Ali Murtaza

Contact No. 0321-3622568, 0336-3477466

Email: sales@expertcontracting.com.pk,

expertcontracting114@gmail.com, expertcontracting@hotmail.com

Office Address: D-4, R.C.H.S-II, Sector 34/A Scheme

33, Near Kiran Hospital, Karachi.

COMPANY'S STAFF DETAILS

Expert Contracting

COMPANY'S STAFF DETAILS

1. Syed Riffat Ali Rizvi

Designation: CEO/Owner

Qualification: B.E (Electrical), M.Sc (Electrical), MAS

Experience: 32 Years in Power Sector

2. Muhammad Farid Mumtaz

Designation: Chief Engineer (Civil)

Qualification: B.E (Civil)

Experience: 28 Years

3. Syed Ali Murtaza

Designation: Head Sales and Execution

Qualification: B.E (Electronic Engineering)

Experience: 7 Years

4. Syed Muhammad Mustafa

Designation: Executive Engineer (Planing, Testing and Commissioning)

Qualification: B.E (Electrical Engineering), M.E (Computer Science)

Experience: 6 Years

5. Daniyal Igbal Khan

Designation: Executive Engineer (Mechanical, HVAC Works)

Qualification: B.E (Mechanical Engineering)

Experience: 6 Years

6. Fatima Ali

Designation: Executive Engineer (Designing and Planning)

Qualification: B.E (Electronic Engineering)

Experience: 5 Years

7. Murtaza Zaidi

Designation: Civil Engineer

Qualification: B.S (Civil Tech.)

Experience: 5 Years

8. Om Parkash Sanjo

Designation: Lab Technician

Qualification: D.A.E

Experience: 7 Years

9. Muhammad Musharaf

Designation: Technician (Electrical & Generators)

Qualification: Intermediate

Experience: 3 Years

10. Riaz Niazi

Designation: Civil Surveyor

Qualification: D.A.E
Experience: 5 Years

11. Syed Muhammad Raza Naqvi

Designation: Accounts and Commercial Officer

Qualification: B.S Acturial Sciences

Experience: 4 Years

12. Shakoor Jokhio

Designation: Site Supervisor

Qualification: D.A.E Experience: 4 Years

13. Qamar Hussain

Designation: Supervisor (IT & CCTV)

Qualification: Intermediate

Experience: 3 Years

14. M Rashid

Designation: Electrician

Qualification: Matric

Experience: 5 Years

15. Kashif Kaim Khani

Designation: Plumber

---Qualification: Intermediate

Experience: 5 Years

16. Subhan Ali

Designation: Driver

Qualification: -

Experience: 7 Years

17. Contractor Staff

Designation: Labour / Skilled Workers / Foremen

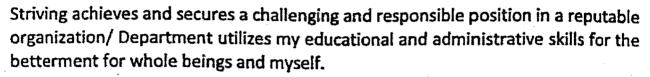
60 Nos. Of staff deployed at DHA City Project

MUHAMMAD HASNAIN

Address: Urya Khel Village & PO Marghuz Tehsil & District Swabi. Cell No. +92-318-9054073

Email # hasnaink98761234@gmail.com

OBJECTIVES



PERSONAL APPEARANCE.

Name : Muhammad Hasnain

Father's Name : Muhammad Igbal

• Date of Birth : 04-04-2000

• NIC No. : 16202-3937277-9

Domicile : Swabi (KPK)

Nationality Asset : Pakistani

Religion : Islam

AGADENIC OUALIFICATION

S.No	Cert./Degree	Year	Marks/GPA	Division	Board/University
1.	S.S.C. (Science)	2016	779/1100	1 st	BISE Mardan
2.	Diploma (Electrical)	2020	2376/3550	1 st	KPBTE Peshawar

Experiences

- Worked as a Internship Power House Old Tarbila Dam for One Month.
- Worked as a Electrician at Private Pakistan for 2 years.

កែពីសំណែនានេះចេញ

- Commitment to organization
- Communication Skills
- Ability to handle problem under pressure
- Very intelligent and hard worker.
- Leadership Skills.

Languages:

- English (Read, Write, Speak)
- Urdu (Read, Write, Speak)
 - Pashto (Read, Write, Speak)

MOHAMMAD SALEEM

+92 333-7841435

A-149 K.E.S.C Staff Colony Gulshan-e-Hadid, Karachi.



OBJECTIVE

Seeking a challenging position in a progressive organization offering opportunities for professional growth and personal development that may prove to be very effective for corporate wealth as well.

ACADEMIC QUALIFICATIONS

B.Tech (Electrical)

2014

New Port Institute of Technology Karachi.

CGPA/Grade

: Waiting for result

D.A.E (Electrical)

2009

Swedish College of Technology Karachi

Division: First

SAFETY TRAINING: Indus Motor Company Ltd. Karachi.

Working Experience

DESIGNATION	EMPLOYER NAME	FROM	ТО
Supervisor (Electrical)	D.H.A Karachi	17 June 2013	Still To Date
Electrician	Indus Motor Company	1 Feb 2011	30 May 2013

> RESPONSIBILITIES

> WIRING

- o Site Supervision
- o Site Inspection
- Estimating & Billing
- o Monitoring of Projects as per Specification / Drawing
- o Inspection of Conduting, Wiring, Lighting Circuits, Power Circuits, Distribution Boards, Three Phase, Distribution and Underground Cables.
- Inspection of Accessories (Inventory) as per BOQ and Approvals.

> 3 PHASE GENERATORS

- o Operation of Generators
- o Maintenance and Record of Generators
- o Fuel record of Generators
- o Wiring LV panel to generators
- o Wiring Main DB to LV panels
- o Manage Generator Operators and Electricians Duties

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error of the table table become

COMPUTER SKILLS

- ➤ Ms Office
- > Internet Surfing

PERSONAL DATA

Passport no

EU5750061

Father's Name:

Gulshan Soomro

Date of Birth

02-10-1985

CNIC

42501-2414006-3

Religion

Islam

Marital Status :

Married

LANGUAGE CAPABILITY

English

Spoken-Fluent; Written-Fluent; reading-Fluent

Urdu :

Spoken-Fluent; Written-Fluent; reading-Fluent

REFERENCE

Reference will be furnished on request.

Page: 2 of 2

1. 10 中国工产工程的基础工作工作



Mubashir Ali Shah

+92 300-2323615

House No 3, Street No 27, Area "B" Qayyumabad Korangi Road Karachi Pakistan

OBJECTIVE

Seeking a challenging position in a progressive organization offering opportunities for professional growth and development that may prove to be very effective for corporate wealth as well.

ACADEMIC QUALIFICATIONS

B.Tech Pass (Electrical)

2012

New Port Institute of Technology Karachi.

CGPA: 3.02

D.A.E (Electrical)

2007

YMCA Poly Technic Institute Karachi

Division: First

Working Experience: 18 years months

DESIGNATION	EMPLOYER NAME	FROM	то
Electrician	D.H.A Karachi	14 Dec 2006	till To Date

> RESPONSIBILITIES

> SOLAR ENERGY SYSTEM

o Operating of 01 Mega watt Solar energy system (Renewable Energy)

> WIRING

- Site Supervision
- o, Site Inspection
- o Monitoring of Projects as per Specification / Drawing

and introducer as at.

- o Inspection of Conduting, Wiring, Lighting Circuits, Power Circuits, Distribution Boards, Three Phase, Distribution and Underground Cables.
 - Inspection of Accessories (Inventory) as per BOQ and Approvals.

> 3 PHASE GENERATORS

- o Wiring LV panel to generators Charles
- o Wiring Main DB to LV panels : 1
- Manage Generator Operators and Electricians Duties

angertwister

HOES

inspection

Thering of Projects as par Specification / - - ming

ection of Condutted, Wiring, Lighting Circ. 13, Power Circuits, Distribute a

Useen Phase, distribution and United

on of Accessories (Towerlory) as one

COMPUTER SKILES

- > Ms Office
- > Internet Surfing

PERSONALDATA

Father's Name: Syed Muslim Shah

Date of Birth : 09-08-1985

CNIC : 42501-2414006-3

Religion : Islam
Marital Status : Married

LANGUAGE CAPABILITY 34

English : Spoken-Fluent; Written-Fluent; reading-Fluent
Urdu : Spoken-Fluent; Written-Fluent; reading-Fluent

REFERENCE

Reference will be furnished on request.

Page: 2 of 2

MUHAMMAD NOMAN SULEMAN

Address

Gulshan Sikandarabad.

Keamari, Karachi.

Mobile

0312 - 0215181

Email

nomansuleman159@gmail.com

Objective

To work in an environment where appreciation and satisfaction furnishes my skills and progress of the corporate values my appreciation. The company's objective is my objective. Flexibility of adopting different environment uplifts me to take any new challenges.

Personal Information

Father Name

Muhammad Suleman

Date of Birth

07 - 06 - 1995

CNIC No

42401 - 2790827 - 9

Nationality

Pakistani Single

Marital Status Religion

Islam

Language

Urdu, Pashto

Domicile / PRC

Sindh (Karachi West)

Educational Background

> Matric (Science)

Karachi Board

Professional Education

> Three year Diploma of D.A.E (Mechanical) From Government College of Technology (SITE Area, Karachi)

42-01 - 2/80827 -

Suppression Easing Conscent Box (Conserved)

a Korpa

Working Experience

> Two year as Electrician

With Contractor in Emar Crescent Bay (DHA, Karachi) Julia Pashin

> Two & Half year as Electrician With (A-C-L) in Emar Crescent Bay (DHA, Karachi)

Reference

i Varama - Tience

> Reference will be furnished on request ...

om ta Electricisti



WAQAR AHMED

Address: Village Khair Muhammad Solangi Tehsil Sadiqabad Distt Rahim Yar Khan Cell # 0305-7634092 #03498842934

OBJECTIVES

Seeking for job related to my qualification I performance oriented organization and to become an active part on an organization that offers a challenging position in a good working environment where I can share my professional qualification, knowledge, skills and ability.

PERSONAL

INFORMATION

Father's Name : Hafiz Manzoor Ahmed

> Surname : Solangi

> Date OF Birth : 15-05-2001

> C. N.I.C No. : 31304-8235373-9

> Domicile District : Rahim Yar Khan (Rural)

> Religion : Islam

> Martial Status : Single

> Nationality : Pakistani

QUALIFICATION

Tixyyrec	Gade Diamor	Burnike massarile	Page of Passing
Matriculation	"A" Grade	BISE Larkana	2018
Electrical Diploma 03 Years	"A" Grade	Karachi Board	2020
C.I.T (06 Months)	"A" Grade	Future Computer	2019

EXPERIENCE

Frontier work organization Lahore Faisalabad 11 Engineer Unit Battalian Camp Shaikhupura

ingling & other of a property of \$1 1 more of the

College Arran Same

terragriquee in tradium Corple a ac-

- Solar Project FWO Three Years Experience as a Helper
- 06 Years' Experience in Electrical Shop
- 02 Months Solar Experience in Gadoon Textile Karachi.

HOBBIES

Pray of Almighty Allah, Reading Books, Reading Newspapers

LANGUAGES

• English, Sindhi, Urdu & Saraiki

REFERANCE

• Will be furnished upon request.

AHSAN ALI JOKHLO

S/O IMAM BAKHSH

- 12 Oct, 1989
- Male
- 03233370723
- pak123@gmail.com
- Walidad Salar Jokhio Goth, Malir Karachi
- : Pakistani

OBJECTIVE

Want to explore my career in the dynamic, team oriented, competitive, and cooperative environment in a reputable organization, where I can get maximum chance of learning and grow as a proficient, innovative, and committed person. To work hard with complete devotion for the better development of the organization, like to take challenging tasks so as to assess my own capabilities and want, to provide benefits to my organization.

SKILLS

MS Office

Computer Literacy

Communication and teamwork

Electric work

Leadership and Management

Problem-solving and analytical thinking

Attention to detail and accuracy

Critical thinking

Decision-making.

Public speaking and presentation

Writing and Editing



EDUCATION

INTERMEDIATE

BISE Hyderabad

MATRICULATION (SCIENCE)

BISE Karachi



WORK EXPERIENCE

TECHNICIAN	3 YEARS
------------	---------

Coal Fire Power Plant Lucky Marwat

TECHNICIAN

Coal Fire Power Plant Lucky Marwat

TECHNICIAN 2 YEARS

2 YEARS

Bahria Town Karachi

TECHNICIAN 1 YEAR

Roots Millennium School, DHA City Karachi

PROFESSIONAL EDUCATION

DAE IN ELECTRICAL 3 YEARS

BISE Karachi

DAE IN ELECTRICAL 1 YEAR

City & Guilds (UK)

COMPUTER INFORMATION TECHNOLOGY 6 MONTHS

SMB Karachi

COMPUTER INFORMATION TECHNOLOGY 6 MONTHS

Askari Gulshan E Hadeed

ELECTRICAL 6 MONTHS

Razzakabad Karachi

ELECTRICAL 6 MONTHS

Karachi

INTERESTS

Technology • Sports and Games • Nature and Galaxy



LANGUAGES

· Urdu · English · Sindhi



REFERENCES

Reference will be furnished on demand

ZAKIR ALI ARAIN



Contact. louse No.: B=224 - Labour Colony SIJIBAtea, Hydlambadk, z Phone: 1923113300190+1923073229339 zakiraliarain1984@emaikeom Skill Highlights Extensive knowledge of relectrical. ysiems --Sugardeolashipanduan management abilities Proficiental marcoles explanators executions and controls Skilled in troubleshooting and problem-solving- Excellent communication and न्युक्ताविनाम्यातम्बद्धियस्य । न्युक्ताविनाम्बद्धारस्य । equipment

Summary

Experience of working on multiple electrical projects, Project Progress Monitoring & Control in order to overcome the delays in project completion by continuous reviewing the progress/plans & developing/implementing recovery plans.

Developed & maintained detail project plan that includes: Work packages, schedule, cost tracking, material management, and resource plan and issued month end/status reports.

Experience

Defence Housing Authority – DCK–Aug 2022 - To Date **MV/LV Network Supervisor**, D.H.A City Karachi

- Overseeing the operation and maintenance of electrical distribution networks.
- Developing maintenance plans and schedules for MV/LV equipment.
- Diagnosing and troubleshooting faults in the network to ensure reliability.
- Ensuring compliance with regulatory requirements and safety standards.
- Monitoring network performance and optimizing efficiency.
- Managing a team of technicians and coordinating with stakeholders.
- Identifying opportunities for improvement in network operations.

Zaffar Enterprise – ZE—Oct 2020 - To Date Site Engineer, D.H.A City Karachi

- Managing the installation, testing, and maintenance of MV/LV and maintenance of MV/LV and the electrical distribution networks.
 - Coordinating with contractors and stakeholders to ensure timely project completion.
 - Conducting tests, inspections, and quality control measures to ensure compliance and proper functioning of the systems.
 - Providing technical support and troubleshooting for MV/LV systems and components.
 - Identifying opportunities for process optimization and recommending innovative solutions.

Expert Contracting – EC- Jan 2018 – Sep 2020 Assistant Electrical Engineer, D.H.A City Karachi

production of stage in

Association of the

- Assisting in the design and development of electrical systems and components.
- Providing technical support in project planning, execution, and
 control
- Section Conducting tests, troubleshooting, and ensuring proper
 - functioning of electrical systems.
 - Ensuring compliance with codes, regulations, and standards.
 - · Assisting in procurement and material management.
 - Implementing quality control measures and participating in
 - inspections, texts. or, or other chart quality control of pages as
 - Continuous professional development and staying updated with
 - industry-trends: on the many of subjections of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the constraint control of the control of the constraint control of the constraint control of the

Technical Aspects

Electrical Network:

regulations.

Extensive knowledge of MV/LV
electrical systems and standards.
Expertise in network design
equipment selection and planning
Proficiency in fault analysis
troubleshooting and resolutions
Experience in testing commissioning,
and compliance checks
Adherence to safety.

Adherence to safety protocols and

Skill in metering, monitoring, and roptimizing network performance. c Understanding of energy efficiency described and power quality considerations

Awareness of emerging technologies and industry trends
Ability to adapt and apply new advancements in network operations.

Concepts: Manageria Skills Dismantling Network Planning Meter installation Fault Deduction Troubleshooting, Testing & Commissioning Installation of Electrical Pole Service connection MS-Office

the energization and installation of the electrical network from LCL to DCK in Sector-3

Sector-03: Led the installation, testing and commissioning of the Sector-38 electrical network.

Sector-3B electrical network
Ensured Uninterrupted MV
network Supply during
collaboration with DCK minimizing
downtime:
Sector-01 & 07-Supervised the
installation of PMU and Switching
Stations in Sector-7 & Sector-1
Successfully activated the live
hetwork in Sector-7 and Sector-1
ABC Network Coordinate the
installation process of ABC
lequipment, conducting tests &

equipment, conducting tests &

Sigma Ventures-Aug 2016 - Dec 2017 Site Supervisor with KE, Karachi

Installation of ABC Special Project of K-Electric.

132KV Underground Cable Project of K-Electric for Xian Electric Engineering.

General Electro-Mecanique (Pvt.) Ltd. – May 2013 – July 2016 Electrical Supervisor with HESCO, in Hyderabad

ADB HESCO ABC Project ADB-LCB-ELR-09 Lot-I, Matli, Kotri, TM Khan, Thatta.

World Bank HESCO ABC Project WB-HESCO-ELR-05 (TYCO) Lot-III, Phuleli.

Education

Bachelor of Commerce: B.COM (2013) University of Sindh, Jamshoro

Diploma of Associate Engineer: Electronics (2006) Government College of Technology, Hyderabad

Higher Secondary Certificate: Pre-Engineering (2004)

Government Degree College & PG Unit No. 11, Latifabad Hyderabad

Secondary School Certificate: Science (2001) Board of Intermediate & Secondary Education, Hyderabad

enable of QRAP (et al. in the ed) ADREYSON ACCOUNT Technical Training

1- Trade Testing Board: One Year Diploma

(Refrigeration & Air Conditioning)

2- Trade Testing Board: One Year Diploma

(General Electrician)

3- Trade Testing Board: One Year Diplorna (Information Technology)

Skill Progresses

- Installation Of Solar System
- Refrigeration & Air Conditioning
- Skilled in leading teams, coordinating projects, and achieving objectives.
- Dedicated to continuous learning and staying updated with industry advancements.

Other Activities & Hobbies

- Reading E-books, Poetry, Novel, Magazines, Net surfing
- Coaching for Electrical Studies

Personal Details

Father's Name D.O.B

Sadaquat Ali

Gender

28-Jan-1984 Male

Relationship Nationality

Married Pakistani

Dilshad Ahmed

Cell: 0331-3787327, 0346-2235145.

Objectives:

Looking for an environment twh ereI can contribute my Services, Knowledge& Experience+ Enhance my skills for exponential careergrowth.

Education:

- Metric Science with 1st div from Karachi Board (2015).
- > DAE (Electrical Technology) fromSt. Patrick's Institute (2018)

Experiences:

- > 2 Year Experience as a Elect cum Gen Operator at DHAC.
 - Oct 2022 to Till todate
- > 3 Month Internship at Pakistan Defence Housing Authority.
 - Aug 9 2021 till Nov 9 2021
- > 3 Year Experience as a Site Supervisor at Muhammad Samad & Co.
 - July 2018 to July 2021

Other Related Skills/ Works:

- > Work place & Human Safety management.
- > Office work flow management.
- > Computer based office System & Emailingetc.

Personal Bio-Data:

Domicile

>	Father'sName:	IrshadAhmed
>	Date of Birth	Similario 01-03-1999 Marko
>	Nationality	Pakistan · · · · · · · ·
>	CNIC No.	42301-9106650-5

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Sindh

distriction of

IMRAN IQBAL

Email: imraniqbalkk@gmail.com Cell: 0345-3612811, 0315-5669220

EXPERIENCE:

ORGANIZATION

Pakistan Defence Officers Housing Authority Karachi

PROJECT

Infrastructure & Area Development at DHA City Karachi.

DURATION

(Feb 2015 to till date) Sub Engineer (Electrical)

DESIGNATION

RESPONSIBILTIES

- Working as a Sub Engineer (Electrical) in DHA City Karachi. Install, connect, and maintain wiring, lighting, meters, Pole, electromechanical fixtures, and electronic machinery.
- Repair and replace damaged electrical components in generators, storage batteries, switchboards, motors controllers, and related electrical equipment.
- Use testing tools to diagnose electrical problems and faults.
- Inspect electrical appliances like circuit's breakers and transformers.

ORGANIZATION

Kalson Company

PROJECT DURATION DESIGNATION Regional Office Hyderabad. (Nov 2013 to Feb 2014) Transporter Supervisor

RESPONSIBILTIES

- Working as a Transporter Supervisor in Kalson Company Regional Office Hyderabad
- Loading and unloading products, from trucks
- Assign delivery routes
- Update driver information of the rest and the first and provide
- Assist with the hiring process for new drivers
- Maintain records of vehicle use and maintenance

ACADEMIC QUALIFICATION:

- DAE Diploma of Associate Engineer (Electrical) complete from (SBTE) Karachi.
- Matriculation (Science)

SKILLS & ABILITY:

- Basic Electricity & Electrical Circuits.
- Transmission & Distribution of Electricity.
- Control & Monitor Turbines & Generators Auxiliary Equipment.
- Monitor & Troubleshoot Operating Equipment.

PERSONAL DETAILS:

Father Name:

Muhammad Iqbalan saara

CNIC No: Date of Birth: 23-Mar-1995

Religion:

Islam

Nationality: Address:

Pakistani PO Hathungo Taluka Khipro District Sanghar

> trical Circuits. to represent the commen

See As Come to be see to An aguage Equapment

USAMA

MOBILE: 0335-2024280

ADDRESS: Ward No# 03 Kot Ghulam Muhammad District Mirpurkhas

ACADEMIC QUALIFICATION:

- > 3 Year Diploma in (Electrical Engineering) from (SBTE) Karachi.
- > Matriculation (Science) from (BISE) Mirpurkhas.
- > BSC

EXPERIENCE:

ORGANIZATION:

DHA Defence Officers Housing Authority. (CLIENT)

PROJECT:

Infrastructure & Area Development at DHA City DCK

DURATION:

(Feb 2017 to Current)

RESPONSIBILITIES:

ELECTRICAIN / GEN OPERATOR

- > Street Light Pole Maintenance Work.
- > Operation, repair & maint of solar sys.
- > Control & Monitor Turbines & Generators Auxiliary Equipment.
- > Distribute Power Among Generators.
- > Regulate Output from Generators.
- > Start & Stop Generators.
- > Oversee Plant Operations.
- > Monitor & Troubleshoot Operating Equipment.

SOFTWERE & INSTRUMENTS USED:

- > Internet Browsing
- > Ampere Meter
- > Instrument Electricity

PERSONAL DETAILS:

Father Name: Muhammad Younas CNIC No: 44102-9625359-1 Date of Birth: 29-Mar-1996

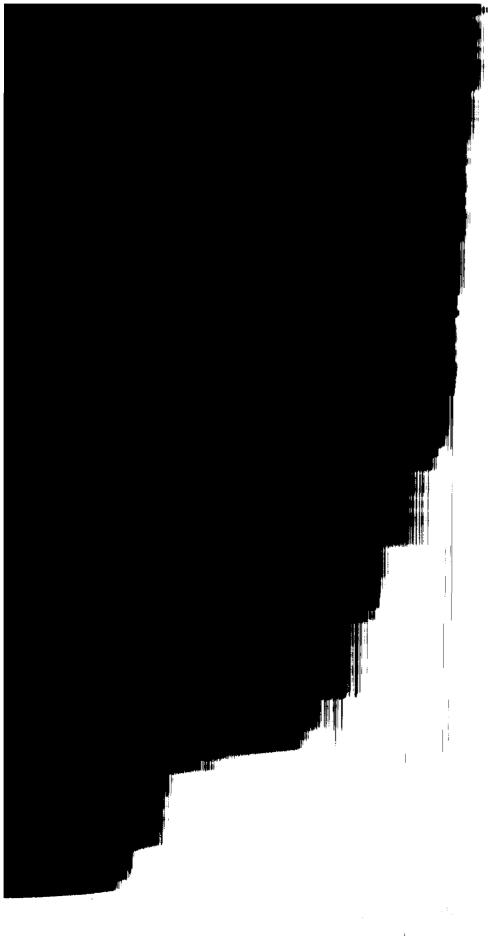
Religion:

Islam

Nationality: Pakistan

Languages:

English, Urdu, & Sindhi,





MOBILE: 0333-0248575

ADDRESS: Ward No# 02 Kot Ghulam Muhammad District Mirpurkhas

ACADEMIC QUALIFICATION:

- DAE Diploma of Associate Engineer (Electrical) Continue From (Polytechnical Instituta) (SBTE) Karachi in Process.
- Intermediate (Pre-Engineering) Complete from (BISE) Mirpurkhas.
- Matriculation (Science) Complete From (BISE) Mirpurkhas.

EXPERIENCE:

ORGANIZATION:

DHA Defence Officers Housing Authority. (CLIENT)

PROJECT:

Infrastructure & Area Development at DHA City DCK M9 Karachi.

DURATION:

(Aug 2018 to Current) **RESPONSIBILITIES:**

ELECTRICAIN/GEN OPERATOR

- Control & Monitor Turbines & Generators Auxiliary Equipment.
- Distribute Power Among Generators.
- Regulate Output from Generators.
- Start & Stop Generators.
- Oversee Plant Operations.
- Monitor & Troubleshoot Operating Equipment.

SOFTWERE & INSTRUMENTS USED:

- MS Office
- > Internet Browsing
- > Instrument Electricity

OTHER QUALIFICATIONS & KNOWLEDGE SKILLS:

> 6 Months Course in (ELECTRICIAN) from (Fauji Foundation Welfare Division Technical Training Centre)

the CMC Constant and Empression Steel

1127 16 14

of the state of th

- > 6 Months Course in (MOTOR WINDING) from (Fauji Foundation Welfare Division Technical Training Centre)
- > 6 Months Course in (MS OFFICE)

PERSONAL DETAILS:

Father Name: Muhammad Mushtaque 44102-7324999-9 12113 PARTIES (1820) CNIC No:

Date of Birth: 03-Mar-1999 Religion: Islam Nationality: Pakistan

English, Urdu, & Sindhi, Languages:

Curriculum Vitae

MUHAMMAD FAHEEM

Contact:

+92-300-2069292

E-mail:

Muhammadfahim968@gmail.com

OBJECTIVES

I am in a constant search of an environment where I can apply my skills with immense professionalism and precision, I want to prove my self worthy & express my skills in my field, if a chance is given to me in your well reputable organization.

EXPERIENCE

- ❖ Working Experience as a Electrician/ Gen Opt in E&M Br DHAC from 1st March 2019 to Til To date
- ❖ Working Experience as a <u>site Inspector</u> in A.K builders in project renovation of Boundary wall K-Electric Colony Since 1st November 2017 to 2019
- * Working Experience as a Site <u>Inspector</u> in AA Quality Builders, in project DHA City main entrance gate. Since 1st August 2016 to 1st August 2017.
- ❖ Working Experience as Site Supervisor In Pak Consultant Pvt. Hyderabad Since 2-2-2015 to July-2016.
- * working Experience as "O.A / O.C Inspector" in Quality Control Department at ALSONS Auto Parts (Pvt) Limited Karachi, since 01-08-2010 To30-1-2015.
- ♦ 1 Year Working Experience in Agility Logistics P&G as a Q.C Inspector

Working Responsibilities & Knowledge:

- · Good interpersonal and communication skills.
- Able to work both independently and as a Team Leader
- Good planning and time management skills.
- Good knowledge of MS Office products.
- Daily back up.
- Data reporting.
- Maintain Databases.
- Document Writing.

COMPULER SKILLS

- MS-Office
- · Computerized Accounting
- Software "Ms Tally"
- Internet
- **Browsing**

EDUCATIONAL RECORD

Diploma of Associate Engineer CIVIL

Board:

SBTE

Grade:

o Year of passing:

2016

• Secondary School Certificate Part-I and II

Board: :

BISE Karachi

Grade:

"C"

o Year of passing:

2006

PERSONAL INFORMATION & A

Father's Name : Gulshan Soomro

Date of birth

20-11-1988

N.I.C. No.

42501-6652147-1

Nationality

Pakistani

Marital Status

married

Dómicile

Malir, Karachi

MUHAMMAD DANISH

Pirhar Sharqi, P/O & Tehsil Kot Addu, Muzaffargarh

Cell #: 03061398790



To join a dynamic and progressive organization, offering ample opportunities for diversified experience and growth with a commitment to perform quality work through application of professional knowledge. I am a fully confident individual who believes that if one has a solid belief in God and some talent in oneself, there is almost nothing impossible through the zeal and aspiration for progress.

PERSONAL INFORMATION

Father's Name

Abdul Ghafar

Date of Birth

04-06-1998

CNIC No.

32303-6466929-1

Nationality

Pakistani

Religion

Islam

QUALIFICATION

Degree	Result		Board / University
Middle	80%	2008	PEC

SKILLS

Ms Office

Internet surfing & browsing

EXPERIENCE

- Worked with Badar Engineering as a Cable Jointer at DHA City Karachi from 2019 to 2023
- Worked with Bahria Town Karachi as a Cable Jointer at Karachi from Feb-2018 to Oct-2018
- Worked with QAVI Engineering as a Cable Jointer at Bulari Air Base, near Karachi from 2017 to 2018

TECHNICAL ASPECTS

MV / LV Cable proper Joint & Termination.

LANGUAGES

- English
- Urdu
- Saraiki

REFERENCE

Will be provided on demand.

GENERATOR OPERATOR

Summary Of Experience Years +

MOBILE: 0335-0320377

ADDRESS: Haji Allah Dad Jokhio Village Kathore Gaddap Town District: Malir Karachi

Eight years of training and experience in the safe operation and maintenance of pumps, generators. Performed multiple successful startups and shut downs of generators and auxiliary equipment along with several other testing and operations.

ACADEMIC QUALIFICATION:

- > Intermediate Complete From (Board Of Secondary Education Karachi)
- Matriculation Complete From (Board Of Secondary Education Karachi)

EXPERIENCE:

ORGANIZATION: DHA Defence Officers Housing Authority. (CLIENT)

PROJECT:

Infrastructure & Area Development at DHA City DCK M9 Karachi.

DURATION:

(12 Jun 2014 to Current)

RESPONSIBILITIES: **GEN OPERATOR**

- Control & Monitor Turbines & Generators Auxiliary Equipment.
- Distribute Power Among Generators.
- Regulate Output from Generators.
- > Start & Stop Generators.
- Oversee Plant Operations.
- Monitor & Troubleshoot Operating Equipment.

SOFTWERE & INSTRUMENTS USED:

- Instrument Electricity
- Ampere Meter
- Operating Generator: Generator 650 KVA, Generator 400 KVA, Generator 350 KVA, Generator 250 KVA, Generator 100 KVA, Generator 60 KVA & Generator 30 KVA

PERSONAL DETAILS:

Father Name: Mehboob Jokhio CNIC No: 42501-9026894-3 Date of Birth: 04-Feb-1995

Religion: Islam Nationality: Pakistan

Languages: Urdu, & Sindhi,



Nabi bux Contact No. 03212899637

Address: Baig jokhio goth

OBJECTIVE

> To work in a growth oriented professional environment as a highly motivated professional team player, which results in organization success as well as personal development.

PERSONAL INFORMATION

Father's Name

Theryo

Date of Birth

1965

NIC No.

41207.9844133.9

Nationality

Pakistani

Religion

Muslim

LANGUAGE

- Urdu
- Sindhi

QUALIFICATION

Middle pass

WORKING EXPERIENCE

01. 11 years experience generator operator DHA city

REFERENCE

4 Reference will be furnished upon request.



BARKAT ULLAH

Contact No. 03213452650 0331-3179146

Address: Haji Allah Dad Jokhio, District Malir Karachi



OR JACKETY S

> To work in a growth oriented professional environment as a highly motivated professional team player, which results in organization success as well as personal development.

PERSONAL INFORMATION

Father's Name

Gohar Khan

Date of Birth

06-03-1993

NIC No.

42501-2726284-3

Nationality

Pakistani

Religion

Muslim

LANGUAGE

- Urdu
- Sindhi
- English

QUALIFICATION

Intermediate

WORKING EXPERIENCE

2 Years DHA Generator Operator

PRESENTER

▲ REFERENCE WILL BE FURNISHED UPON REQUEST.

AUDITED FINANCIAL STATEMENTS OF DHA ENERGY SUPPLY COMPANY (PRIVATE) LIMITED

FOR THE YEAR ENDED JUNE 30, 2023



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Piot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail: :info@rsrfr.com

Website: www.rsrir.com
Other Offices at

Lahore - Rawalpindi / Islamabad

INDEPENDENT AUDITORS' REPORT

To the members of DHA Energy Supply Company (Private) Limited

REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS

Opinion

We have audited the annexed financial statements of M/s. DHA Energy Supply Company (Private) Limited ('the Company'), which comprise the statement of financial position as at June 30, 2023, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information ('the financial statements'), and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and, respectively, give a true and fair view of the state of the Company's affairs as at June 30, 2023 and of the profit, total comprehensive income, the changes in equity and its cash flows for the year then ended.

Basis for Opinion

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

Emphasis of matter

We draw attention to note 1.2 to the financial statements, which describes uncertainty about the grant of distribution license to the Company. Our opinion is not modified in respect of this matter.

Responsibilities of Management and Board of Directors for the Financial Statements

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



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Plot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail: info@rsrir.com Website: www.rsrir.com Other Offices at Lahore - Rawalpindi / Islamabad

-:2:-

Responsibilities of Management and Board of Directors for the Financial Statements (continued)

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

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

Auditor's Responsibilities for the Audit of the Financial Statements

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

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

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

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

Cont'd... P/3



Rahman Sarfaraz Rahim Iqbal Rafiq

CHARTERED ACCOUNTANTS

Piot No. 180, Block-A, S.M.C.H.S. Karachi-74400, PAKISTAN. Tel. No.: (021) 34549345-7 E-Mail: info@rsrir.com Website: www.rsrir.com

Lahore - Rawalpindi / Islamabad

Other Offices at

- : 3: -

REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

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

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

The engagement partner on the audit resulting in this independent auditor's report is Mr. Muhammad Waseem.

RAHMAN SARFARAZ RAHIM IQBAL RAFIQ Chartered Accountants

Karachi

Date:

May 31, 2024

UDIN:

AR202310213ner8wzxc2

Statement of Financial Position

Aa at June 30, 2023

		2023	2022
ASSETS	Note	Rupe	es ———
Current assets		÷ .	
Receivable from holding company	5	400,000	150,000
Taxation - net		3,967,812	4,077,981
Bank balances	6	17,652,189	15,801,415
Total assets	_ =	22,020,001	20,029,396
EQUITY AND LIABILITIES			
Share capital and reserves			
Authorized capital	7 =	100,000,000	100,000,000
Issued, subscribed and paid up capital	7	10,000,000	10,000,000
Revenue reserve			
Unapprorpriated profits		5,815,406	3,846,381
••	_	15,815,406	13,846,381
Current liabilities	•		• •
Accrued liabilities	8 Г	134,320	112,740
Payable to ultimate parent	9	6,070,275	6,070,275
• · · · · · · · · · · · · · · · · · · ·	<u>.</u>	6,204,595	6,183,015
Contingencies and commitments	10	• • • • • • • • • • • • • • • • • • •	
Total equity and liabilities	_	22,020,001	20,029,396
	=		

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

Director



Statement of Profit or Loss

For the year ended June 30, 2023

	Note	2023 Rupe	2022 es
Administrative expenses	11	(85,970)	(83,075)
Other income	12	2,547,252	1,229,386
Profit before taxation	•	2,461,282	1,146,311
Taxation	13	(492,256)	(240,725)
Profit after taxation		1,969,026	905,586

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

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Statement of Comprehensive Income

For the year ended June 30, 2023

	2023 Rupee	2022 s ———
Profit after taxation	1,969,026	905,586
Other comprehensive income	-	-
Total comprehensive income	1,969,026	905,586

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

CERTIFIED TRUE COPY

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Director



Statement of Changes in Equity

For the year ended June 30, 2023

	Issued, subscribed and paid-up capital	Unappropriated profits	Total
		Rupees	ويون والمائدة المائدة
Balance as at June 30, 2021	10,000,000	2,940,795	12,940,795
Total comprehensive income for the year ended June 30, 2022			
- Profit after taxation - Other comprehensive income		905,586	905,586
Balance as at June 30, 2022	10,000,000	3,846,381	13,846,381
Total comprehensive income for the year ended June 30, 2023			
- Profit after taxation - Other comprehensive income		1,969,026 - 1,969,026	1,969,026
Balance as at June 30, 2023	10,000,000	5,815,406	15,815,406

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

CERTIFIED TRUE COPY

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Director

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Statement of Cash Flows

For the year ended June 30, 2023

	2023	2022
Cash flows from Operating Activities	Rupee	S
Profit before taxation	2,461,282	1,146,311
Working Capital Changes:		
Increase in receivable from holding company	(250,000)	(150,000)
Increase in accrued liabilities	21,580	62,580
	2,232,862	1,058,891
Income tax paid	(382,088)	(182,194)
Net cash from operating activities	1,850,774	876,697
Net change in cash and cash equivalents	1,850,774	876,697
Cash and cash equivalents at beginning of the year	15,801,415	14,924,718
Cash and cash equivalents at end of the year	17,652,189	15,801,415

The annexed notes from 1 to 18 form an integral part of these financial statements.

Chief Executive

CERTIFIED TRUE COPY

Director

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Notes to the Financial Statements

For the year ended June 30, 2023

1. LEGAL STATUS AND NATURE OF BUSINESS

- 1.1 DHA Energy Supply Company (Private) Limited (the Company) was incorporated in Pakistan on March 02, 2017 as a private company limited by shares under the Companies Ordinance, 1984 (now Companies Act, 2017). The registered office of the Company is located at 2-B, East Street, Phase-I, DHA, Karachi, in the province of Sindh. The principal objectives of the Company are to carry out the businesses of generating, purchasing, importing, transforming, converting, distributing, supplying, exporting and dealing in electricity and all other forms of energy and products or services associated therewith and of promoting the conservation and efficient use of electricity and to perform all other acts which are necessary or incidental to the business of electricity generation, transmission, distribution and supply.
- 1.2 The Company had applied for distribution license to supply electric power in DHA Karachi areas. K-Electric (KE) filed a suit in the Sindh High Court (SHC) against the Company, National Electric Power Regulatory Authority (NEPRA) and others challenging the same as KE had been granted "exclusive right" to generate and distribute electric power in that area. However, effective July 2023, the exclusive right of KE has been revoked and other entities are also allowed to supply electric power in Karachi. Therefore, the Company intends to take up its application filed earlier with NEPRA and expects that distribution license will be granted to the Company.
- 1.3 The Company is a wholly owned subsidiary of DHA Energy and Services (Private) Limited. The ultimate parent of the Company is Pakistan Defence Officers Housing Authority.
- 1.4 These financial statements are presented as stand alone financial statements.

2. BASIS OF PREPARATION

2.1 Statement of compliance

These financial statements have been prepared in accordance with the accounting and reporting standards as applicable in Pakistan. The accounting and reporting standards applicable in Pakistan comprise of:

- International Financial Reporting Standard (IFRS) issued by the International Accounting Standards Board (IASB) as notified under the Companies Act, 2017; and
- Provisions of and directives issued under the Companies Act, 2017.

Where provisions of and directives issued under the Companies Act, 2017 differ from the IFRS, the provisions of and directives issued under the Companies Act, 2017 have been followed.

2.2 Basis of measurement

These financial statements have been prepared under the historical cost convention.

2.3 Functional and presentation currency

These financial statements are presented in Pakistani Rupees, which is the Company's functional and presentation currency.

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2.4 Critical accounting estimates and judgments

The preparation of the financial statements in conformity with approved accounting standards, as applicable in Pakistan, requires management to make estimates, assumptions and use judgment that affect the application of accounting policies and the reported amount of assets, liabilities, income and expenses. Estimates, assumptions and judgements are continually evaluated and are based on historical experience and other factors that are believed to be reasonable under the circumstances.

Revisions to accounting estimates are recognized in the period in which the estimates are revised. There are no areas where judgement and estimates have been used in these financial statements.

3. NEW ACCOUNTING PRONOUNCEMENTS

3.1 Amendments to published accounting and reporting standards which became effective during the year;

There were certain amendments to the accounting and reporting standards which became mandatory for the Company during the year. However, the amendments did not have any significant impact on the financial reporting of the Company and, therefore, have not been disclosed in these financial statements.

3.2 Amendments to published accounting and reporting standards that are not yet effective:

There are certain amendments to the accounting and reporting standards that will be mandatory for the Company's annual accounting periods beginning on or after July 1, 2023. However, these amendments will not have any significant impact on the financial reporting of the Company and, therefore, have not been disclosed in these financial statements.

4. SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements have been consistently applied to all the periods presented.

4.1 Provisions

Provisions are recognized when the Company has a present, legal or constructive obligation as a result of past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate of the amount can be made. However, provisions are reviewed at each reporting date and adjusted to reflect the current best estimate.

4.2 Financial assets

4.2.1 Initial recognition, classification and measurement

The Company recognizes a financial asset when and only when it becomes a party to the contractual provisions of the instrument evidencing investment. The Company classifies its financial assets into either of following three categories:

- (a) financial assets measured at amortized cost;
- (b) financial assets at fair value through other comprehensive income (FVOCI); and
- (c) financial assets at fair value through profit or loss (FVTPL).

(a) Financial assets measured at amortized cost

A financial asset is measured at amortized cost if it is held within business model whose objective is to hold assets to collect contractual cash flows, and its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on principal amount outstanding.

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Such financial assets are initially measured at fair value plus transaction costs that are directly attributable to the acquisition or issue thereof.

(b) Financial assets at FVOCI

A financial asset is classified as at fair value through other comprehensive income when it is held within a business model whose objective is achieved by both collecting contractual cash flows and selling financial assets and its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Such financial assets are initially measured at fair value plus transaction costs that are directly attributable to the acquisition or issue thereof.

(c) Financial assets at FVTPL

A financial asset shall be measured at fair value through profit or loss unless it is measured at amortised cost or at fair value through other comprehensive income, as aforesaid. However, for an investment in equity instrument which is not held for trading, the Company may make an irrevocable election to present in other comprehensive income subsequent changes in the fair value of the investment.

Such financial assets are initially measured at fair value.

4.2.2 Subsequent measurement

(a) Financial assets measured at amortized cost

These assets are subsequently measured at amortized cost (determined using the effective interest method) less accumulated impairment losses.

Interest / markup income, foreign exchange gains and losses and impairment losses arising from such financial assets are recognized in profit or loss.

(b) Financial assets at FVOCI

These are subsequently measured at fair value less accumulated impairment losses.

A gain or loss on a financial asset measured at fair value through other comprehensive income in accordance is recognised in other comprehensive income, except for impairment gains or losses and foreign exchange gains and losses, until the financial asset is derecognised or reclassified. When the financial asset is derecognised the cumulative gain or loss previously recognised in other comprehensive income is reclassified from equity to profit or loss as a reclassification adjustment. Interest is calculated using the effective interest method and is recognised in profit or loss.

(c) Financial assets at FVTPL

These assets are subsequently measured at fair value.

Net gains or losses arising from remeasurement of such financial assets as well as any interest income accruing thereon are recognized in the statement of profit or loss. However, for an investment in equity instrument which is not held for trading and for which the Company has made an irrevocable election to present in other comprehensive income subsequent changes in the fair value of the investment, such gains or losses are recognized in other comprehensive income. Further, when such investment is disposed off, the cumulative gain or loss previously recognised in other comprehensive income is not reclassified from equity to profit or loss.

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4.2.3 Impairment

The Company recognises a loss allowance for expected credit losses in respect of financial assets measured at amortised cost.

For trade receivables, the Company applies the IFRS 9 'Simplified Approach' to measuring expected credit losses which uses a lifetime expected loss allowance.

For other financial assets, the Company applies the IFRS 9 'General Approach' to measuring expected credit losses whereby the Company measures the loss allowance for a financial instrument at an amount equal to the lifetime expected credit losses if the credit risk on that financial instrument has increased significantly since initial recognition. However, if, at the reporting date, the credit risk on a financial instrument has not increased significantly since initial recognition, the Company measures the loss allowance for that financial instrument at an amount equal to 12-month expected credit losses.

The Company measures expected credit losses on financial assets in a way that reflects an unbiased and probability-weighted amount, time value of money and reasonable and supportable information at the reporting date about the past events, current conditions and forecast of future economic conditions. The Company recognises in profit or loss, as an impairment loss, the amount of expected credit losses (or reversal) that is required to adjust the loss allowance at the reporting date.

Loss allowances for financial assets measured at amortised cost are deducted from the gross carrying amount of the assets.

4.2.4 De-recognition

Financial assets are derecognized when the rights to receive cash flows from the financial assets have expired or have been transferred, and the Company has transferred substantially all risks and rewards of ownership.

4.3 Financial liabilities

Financial liabilities are classified as measured at amortized cost or 'at fair value through profit or loss' (FVTPL). A financial liability is classified as at FVTPL if it is classified as held for trading, it is a derivative or it is designated as such on initial recognition. Financial liabilities at FVTPL are measured at fair value and net gains and losses, including any interest expense, are recognized in the statement of profit or loss and other comprehensive income.

Other financial liabilities are subsequently measured at amortized cost using the effective interest method. Interest expense and foreign exchange gains and losses are recognized in the statement of profit or loss. Any gain or loss on de-recognition is also recognized in the statement of profit or loss and other comprehensive income.

Financial liabilities are derecognised when obligation under the liability is discharged, cancelled or expired.

4.4 Cash and cash equivalents

For the purpose of statement of cash flows, cash and cash equivalents comprises balances with banks.

4.5 Taxation

Provision for current taxation is based on the taxable income for the period determined in accordance with the prevailing law for taxation on income. The charge for current tax is calculated using applicable tax rates, based on tax laws enacted or substantively enacted at the end of the reporting period.

Peri

4.6 Accrued expenses

These are carried at cost which is the fair value of the consideration to be paid in the future for goods and services received, whether or not billed to the Company.

4.7 Interest income

Interest income is accrued on a time proportionate basis, by reference to the principal outstanding and at the applicable effective interest rate.

4.8 Foreign currency translation

Transactions in foreign currencies are translated in Pakistan Rupees using the exchange rate prevailing at the dates of transaction. Monetary assets and liabilities in foreign currencies are translated into Pakistan Rupees using the rates of exchange at the reporting date. Exchange gains and losses from the settlement of foreign currency transactions and translation of monetary assets and liabilities denominated in foreign currencies at the reporting date are included in statement of profit or loss account.

4.9 Offsetting financial assets and financial liabilities

A financial asset and a financial liability is offset and the net amount is reported in the statement of financial position, if the Company has a legally enforceable right to set off, and also intends either to settle on a net basis or to realize the asset and settle the liability simultaneously.

4.10 Borrowings and borrowing costs

Borrowings are recognised initially at fair value net of transaction costs, and subsequently at amortised cost using the effective interest method. Borrowings payable within next twelve months are classified as current liability. Borrowing costs are recognized as an expense in the period in which they are incurred except where such costs are directly attributable to the acquisition, construction or production of a qualifying asset in which such costs are capitalized as part of the cost of that asset.

5. RECEIVABLE FROM HOLDING COMPANY

This represents amount due from DHA Energy and Services (Private) Limited (the Holding Company) in respect of funds transferred to them.

2023

2022

6.	BANK BALA	ANCES		Note	Rupees	
	Cash at bank -	saving acco	unt.	6.1	17,652,189	15,801,415
6.1	It carries inter	est at an aver	age rate of 14.5% (2022: 9.75%) per annu	m.		
7.	SHARE CAP	ITAL				
	2023	2022			2023	2022
	Number o	fshares			Rupe	es
			Authorised capital		•	
	10,000,000	10,000,000	Ordinary shares of Rs.10 each		100,000,000	100,000,000
			Issued, subscribed and paid-up capital			
	1,000,000	1,000.000	Ordinary shares of Rs. 10 each fully paid in	cash	10,000,000	10,000,000

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- 7.1 The Company has one class of ordinary shares which carries no right to fixed income. The shareholders are entitled to one vote per share at meetings of the Company. All shares rank equally with regard to the Company's residual assets.
- 7.2 As at June 30, 2023, all shares of the Company were held by DHA Energy and Services (Private) Limited (the Holding Company).

8.	ACCRUED LIABILITIES	Note	2023 Rupees	2022
	Audit fees Professional fee Withholding sales tax payable		106,200 25,000 3,120 134,320	82,600 27,500 2,640 112,740
9.	PAYABLE TO ULTIMATE PARENT			÷
	Expenses incurred on behalf of the Company	9.1	6.070,275	6,070,275

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9.1 These amounts were paid by the ultimate parent to the vendors to support working capital.

10. CONTINGENCIES AND COMMITMENTS

There were no contingencies and commitments outstanding as at June 30, 2023 (2022: as disclosed in note 1.2)

		Note	2023 Rupe	2022 es
11.	ADMINISTRATIVE EXPENSES			
	Professional charges		15,000	27,500
	Auditors' remuneration	11.1	59,000	47,200
	Fees and subscription	_	11,970	8,375
		:	85,970	83,075
11.1	Auditors' remuneration			
	Audit fees		54,000	43,200
	Out of pocket expenses		5,000	4,000
		•	59,000	47,200
12.	OTHER INCOME			
	Interest on savings account		2,547,252	1,214,626
	Other income		-	14,760
			2,547,252	1,229,386
-13.	TAXATION			
	Current	:	492,256	240,725
-13.		:	492,256	240,

Rene

14. TRANSACTIONS WITH RELATED PARTIES

Related parties of the Company comprise of parent entity, companies under common control, key management personnel and directors (as well as their close family members). Details of transactions and balances with related parties, except as disclosed elsewhere in the financial statements are given below:

	Name of Related Party	Relationship with the Company	Nature of transaction		
				2023	2022
				Rupe	es
	DHA Energy and Services (Private) Limited	Holding company	Funds transferred	400,000	150,000
				2023	2022
15.	FINANCIAL INSTRUMENTS			Rup	ees
15.1	Financial instruments by category				
	Financial assets measured at	amortized cost			
	Receivable from holding com	pany		400,000	150,000
	Bank balances	•		17,652,189	15,801,415
				18,052,189	15,951,415
	Financial liabilities measure	d at amortized cost			
	Accrued liabilities			131,200	110,100
	Payable to ultimate parent			6,070,275	6,070,275
				6,201,475	6.180,375
15.2	Financial risk analysis				

The Company has exposure to the following risks from financial instruments:

- Market risk
- Credit risk
- Liquidity risk

This note presents information about the nature and extent of risk to which the Company is exposed, arising from financial instruments and the risk management framework of the Company.

15.2.1 Market risk

Market risk is the risk that the value of the financial instrument may fluctuate as a result of changes in market interest rates, foreign exchange rates or the equity prices due to a change in credit rating of the issuer or the instrument, change in market sentiments, speculative activities, supply and demand of securities and liquidity in the market. Market risk comprises of three types of risk: currency risk, interest rate risk and other price risk.

(i) Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. The Company's exposure to the risk of changes in foreign exchange rates relates primarily to the Company's operating activities (when revenue or expense are denominated in a different currency from the Company's functional currency). As at June 30, 2023 the Company is not exposed to currency risk.

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(ii) Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Company's interest rate risk arises from saving account with bank amounting to Rs.17.65 million. The effect of changes in interest rates is not considered to have a material effect on the financial statements.

(iii) Other price risk

Price risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. As at June 30, 2023, the Company is not exposed to price risk.

15.2.2 Credit risk and concentration of credit risk

Credit risk is the risk that one party to a financial instrument will fail to discharge an obligation and cause the other party to incur a financial loss, without taking into account the fair value of any collateral. Concentration of credit risk arises when a number of counter parties are engaged in similar business activities or have similar economic features that would cause their ability to meet contractual obligations to be similarly affected by changes in economic, political or other conditions. Concentration of credit risk indicates the relative sensitivity of the Company's performance to developments affecting a particular industry. As at June 30, 2023, the financial assets which are subject to credit risk amounted to Rs. 17.65 million which constitute bank balances.

The Company is exposed to credit risk on deposits with bank. The credit risk on liquid funds is limited because the counter party is bank with reasonably high credit ratings i.e. A-2 in short term and A- for long term.

15.2.3 Liquidity risk

Liquidity risk represents the risk that the Company will encounter difficulties in meeting obligations associated with financial liabilities that are settled by delivering cash or another financial asset.

The table below summarizes the maturity profile of the Company's financial liabilities based on contractual undiscounted payments.

	Within one year	1 to 5 years	Total
		Rupees	
June 30, 2023			
Payable to ultimate parent	6,070,275	-	6,070,275
Accrued liabilities	131,200	_	131,200
	6,201,475		6,201,475
June 30, 2022			
Payable to ultimate parent	6,070,275	_	6,070,275
Accrued liabilities	110,100		110,100
	6,180,375		6,180,375

15.2.4 Risk management policies

Since the Company has not commenced its operations, it has not yet formulated its formal risk management policies.

15.2.5 Capital management

The Company's objectives when managing capital are to safeguard the Company's ability to continue as a going concern in order to provide adequate returns to shareholders, benefit to other stakeholders and to maintain an optimal capital structure to reduce the cost of capital. The Company is not subject to any externally imposed capital requirements.

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16. FAIR VALUE OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable willing parties in an arm's length transaction other than in a forced or liquidation sale.

The carrying values of all financial assets and liabilities reflected in the financial statements approximate their fair values.

Fair value hierarchy

The following table provides an analysis of financial instruments that are measured subsequent to initial recognition at fair value, grouped into Levels 1 to 3 based on the degree to which the fair value is observable.

- Level 1: fair value measurements are those derived from quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: fair value measurements are those derived from inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices).
- Level 3: fair value measurements are those derived from valuation techniques that include inputs for the
 asset or liability that are not based on observable market data (unobservable inputs).

As at reporting date, the Company does not hold any financial instruments which have been carried at fair values.

17. DATE OF AUTHORISATION FOR ISSUE

These financial statements were authorised for issue by the Board of Directors of the Company on 16 maf 2024

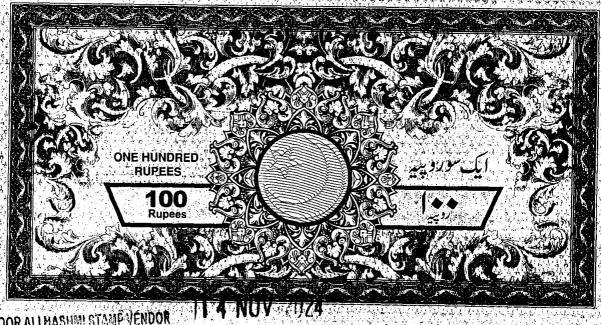
18. GENERAL

- 18.1 Figures have been rounded off to the nearest Rupee.
- 18.2 There was no person in the employment of the Company. The affairs of the Company are managed through the staff of ultimate parent.

Chief Executive

Director

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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique S/O, Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that DESCO applied for a distribution license vide application dated 16.06.2017. The Sindh High Court however issued a stay order against the processing of this application in Suit No. 2259/2017. This application by DESCO has remained pending with NEPRA till date, however, due to the promulgation of the NEPRA Amendment Act, 2018 it may be considered infructuous. DESCO has not been granted any other license, till date, under the NEPRA Act, 1997. DHA Energy Supply Company (Private) Limited has also not been refused the grant of any license under the NEPRA Act, 1997.

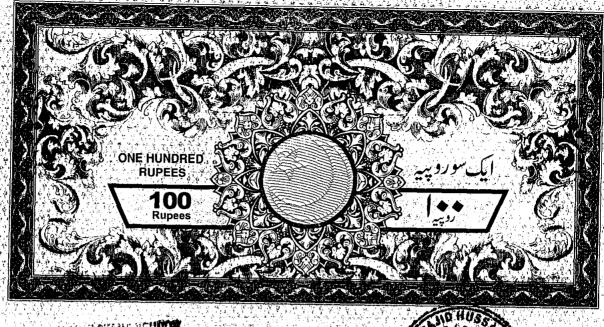
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5 NOV 2024

(DEPONENT)
Usman Rafique

Director

Dated:



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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, Director, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that the contents of the accompanying application of DHA Energy Supply Company (Private) Limited for a distribution license, including all attached documents-in-support, are true and correct to the best of my knowledge and belief and that nothing has been concealed.

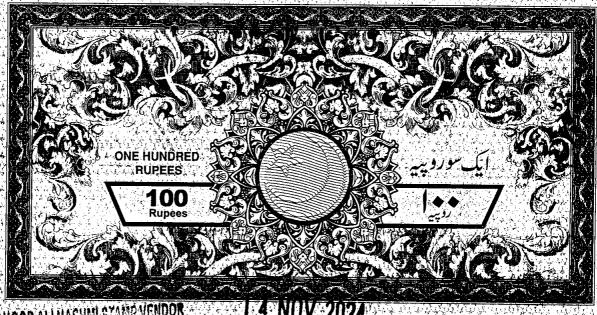
(DEPONENT)
Usman Rafique

Director

Dated: _____

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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, being the duly authorized representative of DHA Energy Supply Company (Private) Limited, duly authorized in this regard by virtue of Board Resolution dated 2nd Sep 2024, hereby solemnly affirm and declare that the Applicant is compliant with and shall always fulfill the obligations imposed on it under the National Electricity Policy and National Electricity Plan made under section 14A of the Act.



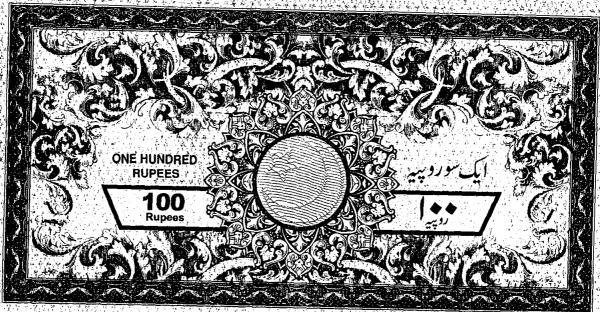
(DEPONENT)

USMAN RAFIQUE

Director

Dated:

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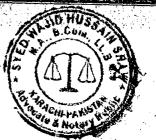


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BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

I, Usman Rafique s/o Ghulam Rafique Ahmed bearing CNIC No. 42501-8808302-7, being duly authorized by DHA Energy Supply Company (Private) Limited, hereby solemnly affirm and declare on oath that DHA Energy Supply Company (Private) Limited has fulfilled all the requirements provided under The Eligibility Criteria (Distribution Licenses) Rules, 2023 for the grant of a distribution license.

> ATTESTED MACEL PARTSTAN

(DEPONENT) **USMAN RAFIQUE**

Director Dated: ___