

To,

The Registrar  
National Electric Power Regulatory Authority  
NEPRA Tower, Ataturk Avenue, G-5,  
Islamabad, Pakistan

**Subject: Application for Grant of Distributed Generation License for 1 MW Solar Power Plant - Marriott Hotel Islamabad**

I, Maaz Mashkooor, Director, being the duly authorized representative of Burj DG (Private) Limited by virtue of Board Resolution dated 20 September 2021 hereby apply to the National Electric Power Regulatory Authority for the grant of Generation License to Burj DG (Private) Limited pursuant to section 15 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 326,728 (Three hundred and twenty-six thousand and seven hundred twenty eight rupees) 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.

Dated: 28<sup>th</sup> December 2021



Signature:

Maaz Mashkooor  
Director  
Burj DG (Private) Limited

## PPA Agreement



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## ENERGY PURCHASE AGREEMENT

This ENERGY PURCHASE AGREEMENT (this "Agreement") is made on the 16th day of JULY, 2021 (the "Execution Date") between:

Burj DG (Private) Limited, a company incorporated under the laws of Pakistan and having its registered office located at 3<sup>rd</sup> Floor, Faysal Bank Building, 16 Abdullah Haroon Road, Karachi, Pakistan (hereinafter referred to as the "Company" which expression where the context so admits shall mean and include its successors in interest, administrators and permitted assigns) of the FIRST PART; and

Hashwani Hotels Limited, a company incorporated under the laws of Pakistan and having its registered office located at First Floor Nespak House, Attaturk Avenue, Sector G-5/2, Islamabad (hereinafter referred to as the "Client") through its authorized Directors Mr. Shakir Abu Bakar and Mansoor Khan which expression where the context so admits shall mean and include its successors in interest, administrators and permitted assigns), of the SECOND PART.

(The Company and the Client shall hereinafter be collectively referred to as the "Parties" and individually as the Party).


### WHEREAS:

- A. The Client is the owner and operator of a chain of five-star hotels including those mentioned in *Annexure J* (the "Hotels").
- B. The Client is desirous of engaging the services of a reputed company for the installation, operation and maintenance of a solar power system on the Site, to provide electricity exclusively to the Hotels.
- C. The Company is in the renewable energy business and has agreed to install, operate and maintain on the Site, the Project on the basis that Client shall pay the Solar Unit Price for the Solar Power Units.
- D. The Client wishes to purchase all of the Solar Power Units prior to use of any other power sources including the Grid and its generator.
- E. The Client and the Company agree to solarize other hotels owned or operated by the Client as may be feasible.

NOW, THEREFORE, in view of the foregoing and in consideration of the mutual benefits to be derived and the representations and warranties, promises, covenants, undertaking and agreements contained herein and other good and valuable consideration, the sufficiency of which is hereby acknowledged and intending to be legally bound, the Parties hereby agree as follows:

### 1 DEFINITIONS AND INTERPRETATION

#### 1.1. DEFINITIONS

*[Handwritten signature]*  


ANNEXURE A

MAP OF SITE

(Indicative map is appended below)

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00. 7ms



**ANNEXURE J**

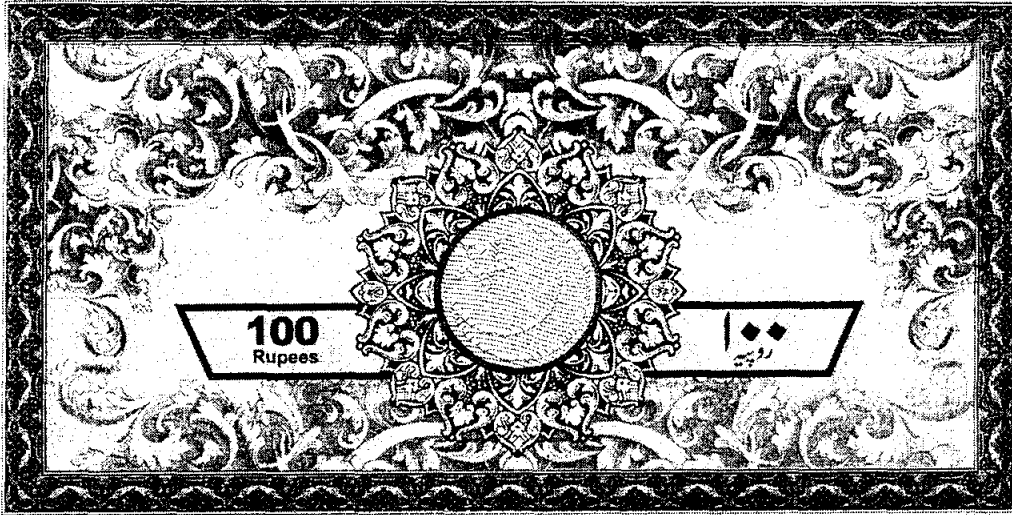
**Site to be Solarized**

Name of Hotel	Address	Size (kWp)	*Estimated Delivered Generation Units
Marriot Hotel Islamabad (MHI)	Agha Khan Rd, F-5/1 F-5, Islamabad, Islamabad Capital Territory 44000, Pakistan	171.72	238 MWh

\*Annual degradation of PV panels is 0.6% which is already incorporated in estimated delivered generation number on annual basis.



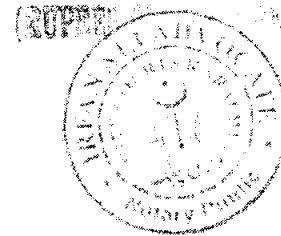
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STAMP OFFICE CITY COURT, KARACHI

Issued to M. J. Khan  
 CNIC/LEG No. 4385  
 V.D.S.R. No. 220 Dr. 12/11/21  
 For the Purpose of \_\_\_\_\_  
 On Cash \_\_\_\_\_

Ex Office Vendor

**AFFIDAVIT**

It is to state that M/S Burj DG (Private) Limited, incorporated under section - 16 of the companies Act, 2017 (XIX of 2017) having Incorporation No: 0157069, dated 03 September 2021 has previously been granted following license under the Act:

Generation License No:	Generation Facility	Installed Capacity	Issuance Date	Expiry Date
No. SGC/155/2021	Pearl Continental Limited, Mall Road, Lahore	923.32 KWp	28 May 2021	30 December 2046

Furthermore, copy of NEPRA License attached for reference and record.

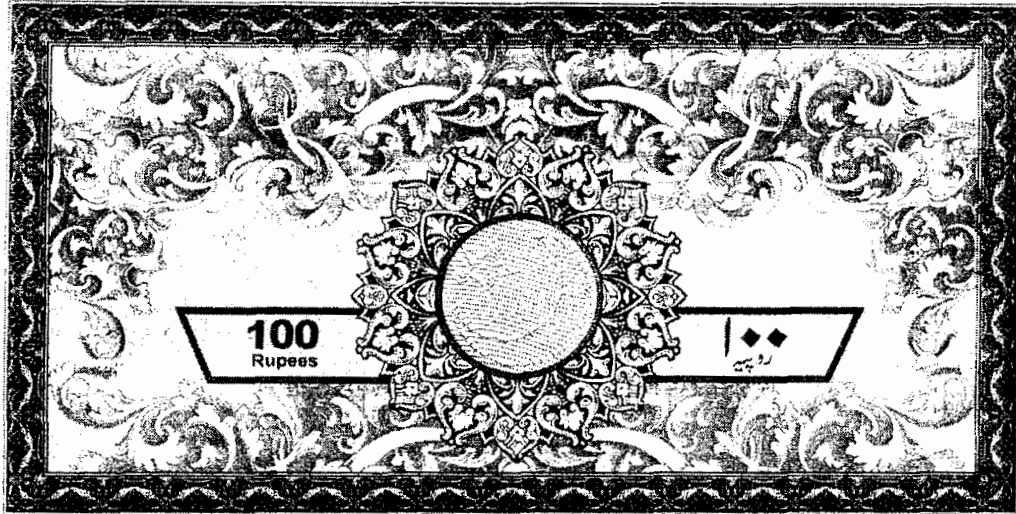
For and on behalf of Burj DG (Private) Limited.

M. J. Khan

Maaz Mashkoor  
 Director  
 Burj DG (Private) Limited  
 CNIC: 42201-4389581-5

**ATTESTED**  
M. J. Khan  
 M. J. KHAN (ADVOCATE)  
 401014 PUBLIC (National Parliament)

U087151



MAAZ MASHKOOOR VENDOR

124773

IRFAN ALI SHAHEED  
Advocate  
Lsg. # 443 KBA

AFFIDAVIT

(RUPEES ONE THOUSAND ONLY)

I, Maaz Mashkooor son of, Mashkooor Ullah holding CNIC No.- 42201-4389581-5, Director of Burj DG (Pvt.) Ltd. hereby solemnly affirm and declare on oath that the contents of the accompanying application for Generation License dated 20<sup>th</sup> September 2021 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

Maaz Mashkooor  
Director  
Burj DG Private Limited  
20<sup>th</sup> September 2021



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**Extracts from  
Resolution Passed by the Board of Directors of  
Of Burj DG (Pvt.) Limited  
On 20th September 2021**

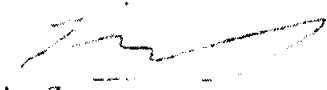
**"RESOLVED** that an application for the Generation License (the "GL Application") be filed by and on behalf of Burj DG Private (Pvt.) Limited (the "Company") with the National Electric Power Regulatory Authority ("NEPRA"), in connection with the GL Application for the Company in respect of the Company's 400 kWp Solar Power Project at Pakistan Services Limited's - Pearl Continental Hotel - Peshawar in the province of Khyber Pakhtunkhwa (the "Project").

**RESOLVED FURTHER** that Mr. Maaz Mashkoor, holding CNIC 42201-4389581-5, the Director of the Company, be and is hereby authorized to sign the GL Application, and any documentation ancillary thereto, pay all filing fees, and provide any information required by NEPRA in respect of the Project, and do all acts and things necessary for the processing, completion and finalization of the GL Application.

**CERTIFICATION**

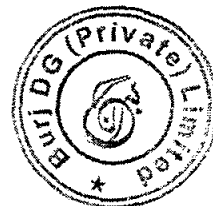
CERTIFIED, that, the above resolution by circulation was duly passed by the Board of Directors of Burj DG (Pvt.) Limited on September 20<sup>th</sup>, 2021 for which the quorum of directors was present.

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

  
Saad uz Zaman

  
Maaz Mashkoor

  
Farid Arshad Masood



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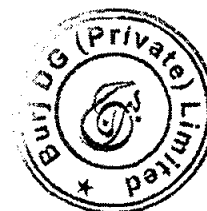


## THE GENERATION LICENSE APPLICATION

### 1. APPLICANT COMPANY'S PROFILE

- 1.1. Burj DG (Private) Limited (the "Applicant Company"), is registered vide Registration No. 0157069 dated 3<sup>rd</sup> September 2020 under the Companies Ordinance, 1984. The copy of certificate of incorporation is attached herewith as **Annexure — A**. The copy of Memorandum & Articles of Association is attached herewith as **Annexure — B**.
- 1.2. The registered office of the Applicant Company is situated at "16, Abdullah Haroon Road, 3rd Floor Faysal Bank Building, Karachi".
- 1.3. The Applicant Company is since not required to submit the annual return to the Registrar of Companies pursuant to Section 156 of the Companies Ordinance, 1984, therefore the information, in as close a form and content as possible, laid down in the third schedule to the Ordinance is being provided. The information, in lieu of annual return, is **Annexure — C**.
- 1.4. The Applicant Company has financial strength to meet with the requirements of the Project. The summarized last five-year financials of the sponsor company Burj Capital is presented as **Annexure — D**. The latest audited balance sheet and income statement for 2019 are also presented in the same annexure.
- 1.5. **Directors**
- 1.5.1. Saad Zaman  
1.5.2. Maaz Mashkoor  
1.5.3. Farid Ahmed Masood
- 1.6. **Auditors**
- The company is newly incorporated so an auditor has not been appointed as of yet. However, the company has received proposals for appointing auditor and will be appointing one shortly.
- 1.7. **Form 1**
- Form 1 of the company is attached herewith as **Annexure — E**
- 1.8. The list of the directors, senior management, key technical and professional staff of the Applicant Company is provided hereunder: -

Name	Designation
Saad Zaman	Director



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<b>Maaz Mashkoor</b>	Director
<b>Farid Ahmed Masood</b>	Director
<b>Bilal Saeed</b>	Sr. Project Manager

**1.9.** Brief introduction of the above-named officials is as follows:

**1.9.1. Saad Zaman**

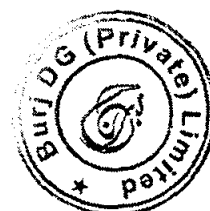
Saad as Chairman and CEO of Burj Energy, has more than 25 years of experience and has held leadership positions in organizations like Citibank, where in his last role, he led the Islamic Investment Banking Business for the Middle East and Levant. Subsequent to Citi, he served as CEO for the Investment Banking Business and International Operations of Dubai Islamic Bank. He was the founder CEO of DIB Pakistan, and led DIB's international expansion into other regional markets. Saad has held various Board and Advisory positions with leading businesses like Citi, DIB, Etisalat International and DP WORLD Group.

**1.9.2. Farid Ahmed Masood**

Farid currently serves as a Managing Director of Vitol Group, based out of Dubai, and has more than 25 years of experience working for blue chip financial institutions as well commercial enterprises. In his current role, he oversees Vitol's investments in the region including investments in renewable energy space. In his previous role, he was CEO of Kansai Plascon Africa and Global Advisor, Finance and M&A. During this period, he expanded the business both through organic growth and through the with the acquisition of the largest player in East Africa as well as led a corporate restructuring initiative in South Africa and reduced costs by 15%. Before that, he served as a Director in ICD-IDB, where he grew the asset management business from scratch to US\$ 800m under management and expanded the advisory business to work in 12 different countries. Before that, Fareed had leadership positions with KASB and BMA. Fareed is an MBA from Cambridge and BS from University of Virginia

**1.9.3. Maaz Mashkoor**

Maaz currently works in business development at Vitol Group, based out of Dubai, and oversees the group's investments in the region. He was previously working as manager strategy at Engro Corp, one of the largest private sector business houses of the



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country. Before that he worked for large and prestigious business houses in the Middle East such as the National Investor as well as Abu Dhabi Capital Group. Maaz holds a Bachelor's degree from University of Toronto and an Executive Master in Finance from INSEAD.

#### **1.9.4. Bilal Saeed**

Bilal has been a part of the local PV market of Pakistan since 2014. Having almost 8 years of technical and commercial experience he has designed, optimized and developed Megawatt scale projects for both the industrial and commercial sector of Pakistan. Before joining Simple Watt Pakistan, he has been a part of one of the leading Solar EPC firms of Pakistan - Nizam Energy. His area of expertise including design optimization, costing of projects and delivering them. Further to this he has sizeable experience for managing Distributed Generation projects on BOT model.

- 1.10. The curriculum vitae of key personnel is given in **Annexure — F** while the profile showing experience of the Applicant Company, its management staff and its members in the electricity industry is attached as **Annexure - G**.

## **2. RATIONALE & BUSINESS MODEL**

### **2.1. Rationale**

- 2.1.1. It is a common knowledge that availability of electricity in any country has direct effect on its economic and social factors and therefore, in order to measure the affluence of a society, the per capita energy consumption is used as an index to determine its energy sufficiency.
- 2.1.2. Pakistan is a country where more than 144 million people have unreliable power, and the rest have no electricity connection at all. Pakistan's cost of electricity is one of the highest in the region at 12.56 cents per unit as opposed to comparable nations such as Bangladesh and Vietnam where the rate is 5.49 or 6.89 cents per unit respectively.
- 2.1.3. Although Pakistan has set up natural gas plants recently, a large part of these are based on imported LNG which is expensive. In these circumstances, the use of solar power in Pakistan is quite an attractive alternative mode of generation of electric power. Further, its use does not require refining, transporting and conveying fuels and power over long distances. Moreover, solar power does not



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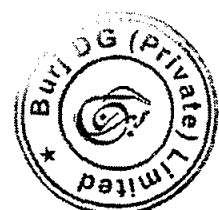
create

pollution.

- 2.1.4. Naturally, Pakistan is located in the Sunny Belt and can take advantage of its ideal situation for utilization of solar energy. The country potential for solar generation is beyond doubt as it has high solar irradiation and enough space for installation of generation system those are ideal for PV and other solar energy applications.
- 2.1.5. Villages and other areas which are away from grid or distribution system of utilities can also benefit from solar power generation which will also save the extra cost of laying the system and the losses.

## **2.2. Business Model**

- 2.2.1. The Applicant Company intends to sell electricity to residential, commercial, industrial and agricultural entities (Buyers) through its owned complete on-grid solution of electricity based on solar power (Generating Facilities) under the long-term Energy Purchase Agreements (EPAs)
- 2.2.2. In this regard, the Applicant Company has conducted financial analysis and found this model to be financially workable if there are long term contracts involved. The Company will therefore, plan, design, procure material, construct, install, operate and maintain Generating Facilities at sites of the Buyers.
- 2.2.3. The Applicant Company shall provide product of the Generation Facilities to the Buyers on terms and conditions as agreed between the Parties so as to recover the cost of investment, working capital, operation and maintenance cost with reasonable rate of return on basis of actual delivery of electricity while taking the risk of shortfall in generation on account of reduction in solar irradiation at its own.
- 2.2.4. The Applicant Company shall install various Generation Facilities at the sites of the Buyers and understands that the activity of generation and sale of electricity shall take place within the same premises without crossing any other property or requiring the use of transmission or distribution lines.
- 2.2.5. The electricity generated through the Generation Facilities of the Applicant Company shall be fed directly into the Distribution Panel of the Buyer and in no case shall be fed or exported to the



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distribution system of a utility company.

- 2.2.6.** The electricity generated through the Generation Facilities of the Applicant Company shall be less than the total demand of the Buyer hence it will not be a replacement for the relevant utility company but only a partial augmentation.

### **3. TECHNICAL OVERVIEW**

#### **3.1. Technology**

- 3.1.1.** The electricity shall be generated by use of PV Panels to be installed at the premises of the Buyer and will be supplied directly to the Distribution Panel of the Buyer(s).
- 3.1.2.** The Solar PV system will operate in grid interactive / grid tied mode. The grid-tie inverter will be used that will convert direct current (DC) electricity into alternating current (AC) with built in ability to synchronize with a utility line to supplement the electricity required by the buyer from the distribution company.
- 3.1.3.** Grid-tie inverters are also designed to quickly disconnect from the grid if the utility grid will go down and it will ensure that in the event of interruption of electricity from utility, the grid tie inverter will shut down to prevent the energy flow back in the distribution system of the utility. Grid interactive system will supplement utility supplied energy to building or facility.
- 3.1.4.** The PV System output will be designed in a manner that it will always be less than the premises load and there will be no export to the utility company's grid.
- 3.1.5.** In case the Buyer, subject to NEPRA's permission and agreement with the utility company, opts to export excess electricity to the distribution system through net metering arrangement, then the Applicant Company, on behalf of the Buyer, may provide requisite services.
- 3.1.6.** The PV Panels shall convert the solar irradiation into DC electricity and by using inverters; DC supply will be converted into AC supply of 220/400V Volts. In the process, the Applicant will use equipment including:
- PV Modules including structure for their installation;
  - Invertors;
  - Surge arrestors;
  - Junction Boxes;



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- PV / AC Electrical Board;
- Main Distribution Panel;
- Safety & Protection devices (Automatic with manual override)
- Fuses;
- Wires;
- Breakers;
- Meters;
- Online monitoring devices/ data loggers for
- remote sensing and monitoring;
- Internet access devices/ connects;
- Water taps for panels washing
- Steel Structure,
- Screws, Nuts/Bolts

List of Equipment with Technical details & the Single Line Diagram is attached herewith as **Annexure — H & Annexure — I**, as well as flow diagram is attached as **Annexure J**.

**3.1.7.** A general overview Annexure H (Single Line Diagram). Grid interconnection and protections required for grid interconnection are in compliance with "NEPRA ARE (Alternative & Renewable Energy) Distributed Generation / Net Metering Rules"

**3.1.8.** Before the Distribution Panel and after the PV AC Electrical Board there shall be installed the Meter for reading of the actual energy delivered through Generation Facilities of the Applicant Company to the Buyer.

### **3.2. Capacity**

**3.2.1.** The Applicant will deploy solar PV facilities totaling 250kWp at Buyer premises – Hashwani Hotels Limited - Marriot Hotel, Islamabad.

### **3.3. Site(s)**

The Generation Facilities to be offered by the Applicant Company shall be at the premises of the Buyer and therefore the Applicant Company does not require purchasing or acquiring a particular site. Moreover, since the electricity generated by the Generation Facilities of the Applicant will not be sold to any electricity utility i.e. DISCO hence it would not require any evacuation by the national grid company (NTDC).



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#### **3.4. Interconnection**

Since the Generation Facilities of the Applicant Company shall be installed at the site of the Buyer and shall provide electricity to that premises in order to supplement the electricity requirement of the Buyer therefore, the interconnection point shall also be within the premises of the Buyer at the point as identified by the Buyer. The Applicant Company shall deliver electricity to the Buyer's distribution box/panel at 400V level.

#### **3.5. Commissioning & Expected Life**

The terms as to commissioning shall be as per terms of EPA. However, the average expected life of the Generation Facilities shall be 25 Years.

#### **3.6. Operation & Maintenance**

The Applicant Company shall also provide the operation and maintenance, including periodical washing of the PV modules, of the Generation Facilities Installed at the site of the Buyer.

#### **3.7. Monitoring Facilities**

The Applicant shall develop, install and maintain a remote monitoring facility at its premises for overall monitoring of the Generation Facilities to be installed at various sites. The Applicant will hire trained staff to carry out maintenance activities on the installed facilities at the Buyer's sites. The Applicant also has a team of qualified engineers to plan and supervise the routine / regular maintenance needs. Detail of Monitoring Facilities is presented as **Annexure K**.

#### **3.8. Eligible Site/Buyer**

The Applicant Company declares the following eligibility criteria for the site/buyer for whom Generation License is required:

- i. Generation Facility to be setup should be within the site of the buyer;
- ii. Electricity generated through the Generation Facility should not be provided to any premises other than the buyer's premises/site where the Generation Facility is installed;
- iii. Electricity from the Generation Facility should be in addition and supplemental to the electricity being obtained from the electric utility company;
- iv. Interconnection point should be within the premises/site where the Generation Facility is installed;



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- v. Generation Facility installed should ensure no back flow of electricity to the distribution system of the utility;
- vi. The delivery of electricity from the PV Modules to the distribution box/panel of the buyer should not require crossing of any public road/area and the distribution network of the electric utility;
- vii. The buyer should not be a defaulter of dues of electricity obtained from electric utility company.

### 3.9. Site Description

1.	<b>Name of Licensee</b>	Burj DG Pvt. Ltd.
2.	<b>Registered/Business</b>	16, Abdullah Haroon Road, 3rd Floor Faysal Bank Building, Karachi
3.	<b>Plant Location</b>	Hashwani Hotels Limited – Marriot Hotel, Islamabad, -- - Latitude: 33.73, Longitude: 73.08
4.	<b>Type of Generation</b>	Solar Photovoltaic (PV)
5.	<b>Type of Technology</b>	Photovoltaic (PV) Cell
6.	<b>System Type</b>	Grid Tied
7.	<b>Plant Capacity</b>	250 kWp

### 3.10. Google image of the site

Marriott Hotel, Islamabad



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#### 4. FINANCIAL OVERVIEW

##### 4.1. Capital Cost

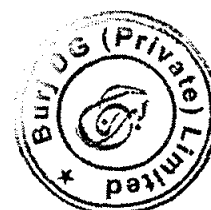
- 4.1.1. Detailed Feasibility Report of the Project is attached as **Annexure L**.
- 4.1.2. The Capital cost shall include the cost borne by the Applicant Company on feasibility studies, planning, designing, material, construction and installation of the Generation Facilities.
- 4.1.3. The cost of land, step-up transformer, interconnection with distribution system of utility are not required in this case.
- 4.1.4. The Applicant Company aims to provide the Generation Facilities up to 250 kWp in a period of about 12 months, with an estimated cost on per Watt basis is worked out by the Applicant Company as below:
- 4.1.5. The expected cost of the installations under has been estimated to be US\$ 0.62/Wp. This cost does not include cost of land as facility shall be installed at the premises of the Buyers.

Description	US\$/Wp
EPC Cost: <ul style="list-style-type: none"><li>• Panels / Inverters / JB's / DC Cables / Freight / Clearing Charge</li><li>• Steel Structure</li><li>• Installation Cost</li></ul>	0.595
Insurance during construction	0.005
Administrative and Development Costs.	0.020
Total Costs	0.62

The expected cost of the installations under has been estimated to be US\$ 0.62/Wp. Based on this, the total project cost is estimated to be USD 155,000. The project is being financed entirely by equity in the beginning and will later on be refinanced from the bank in 80:20 ratio

This cost does not include cost of land as facility shall be installed at the premises of the Buyers.

##### 4.2. Source of funding



4.2.1. The applicant will deploy its projects in Single phase, with total of 250kWp and will be completely equity financed in the beginning and then refinanced with bank debt at a later stage.

## 5. Profile of Subcontractor

5.1.1. Reputed contractor has been selected for the construction of the project. Their profile is attached as **Annexure M**.

## 6. ENVIRONMENTAL

The Generation Facilities by the Applicant, as visualized, will be without emissions and chemical usages. The Applicant Company shall use limited quantity of the tap water available at the premises of Buyer for the purposes of washing the PV modules and shall use the available sewerage for disposal to avoid any negative impact on the environment.

Our requested generation license is for small-scale solar (PV) generation on site of the consumers who will mainly be in Urban areas where there is little natural flora or fauna to be affected. Moreover, given the nature of the technology, there are no harmful emissions nor any natural fresh water sources are compromised. Only tap-water in small quantities is needed for cleaning on periodic basis. In fact, given the nature of the technology, it is actually beneficial for the environment since it replaces harmful fossil fuel-based power. Detailed Environmental Study of the project is attached as **Annexure N**

## 7. PROJECT TIMELINES

The project timelines are added in Gantt Chart form as **Annexure O**

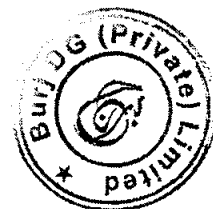
## 8. Proof of Funds

Cash and Balance Certificate of Company is attached as **Annexure P**

## 9. EXECUTIVE SUMMARY & PRAYER

9.1. To supplement the supply of electricity by utilities, the Applicant Company intends to set up small scale solar PV modules (Generation Facilities) at Marriot Hotel Islamabad, for which the Application for grant of Generation License is being submitted before the Authority in terms of Section 15 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 read with the relevant Rules and Regulations.

9.2. For the reasons mentioned above, it is prayed that Application in hand may please be admitted and a Generation License be granted in name of Burj DG (Private)



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Limited for generation of in maximum of 250 kWp through Solar PV Modules, of the prospective buyer who are eligible in terms of the criteria and parameters mentioned above in this application.



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# Applicant Past Experience

	Project 1	Project 2	Project 3
Name of project	Jhimpir Power Limited	PC Hotel Lahore	Other Hashoo Hotels
Project Capacity (MW)	50 MW	0.350 MWp	2.1 MWp
Type of Plant	Wind	Solar	Solar
Location of plant	Jhimpir, Pakistan	Lahore, Pakistan	Karechi, Lahore, Islamabad, Muzaffarabad, Gwadar, Peshawar, Rawalpindi
Nature of Agreement	IPP	PPA	PPA
Year of commissioning of the plant	2018	2021	Under Construction
Applicant's role in this project	sponsor/owner/manager	sponsor/owner/manager	
List of development activities performed by the Applicant	All government approvals (LOI, GL, Tariff, LOS)/Technical Studies and Reports/arranging of financing (debt + equity)/Managing (Construction and EPC Phase)	Development, Regulatory Approvals, GL Submission, Technical Studies, Managing Construction operations, Asset performance evaluation	
Total Project Cost (USD Million)	Total 92m / 126m USD M 1.8/2.5/MW	PKR 35 Million	PKR 300 Million
Contact Person	Imran Javed Technical Manager	Mr Muhammad Hamzan Technical Director	Mr Asim Siddique CEO
Contact Detail	92 300 2351526	+ 92 300 0544133	+92 317 6430000



M/M

To,

The Registrar  
National Electric Power Regulatory Authority  
NEPRA Tower, Ataturk Avenue, G-5,  
Islamabad, Pakistan

**Subject: Application for 1 MW Solar Power Plant- Annual Return of Company submitted in Compliance of Sec-130 of Co. Act.**

Dear Sir,

As per the new rules AMCEPR 2021, there is a requirement of furnishing annual return of the entity submitted in compliance with Section 130 of the Companies Act.

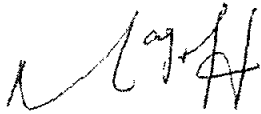
*"The last annual return of the Company submitted in compliance of section 130 of the Companies Act or, in case of an applicant to whom section 130 of the Companies Act does not apply, a return comprising of all such information and particulars as required by the specified form under section 130 of the Companies Act, as the case may be"*

As per Section-130 of Companies Act 2017, "Every company is required to file annual return with the registrar within 30 days of holding AGM"

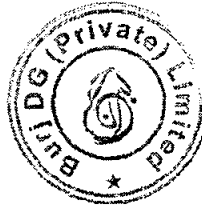
As per the Section-132 & 197, "First AGM should be held within 16 months from incorporation date."

With reference to above-mentioned sections Burj DG (Private) Limited is in process of conducting first AGM in order to comply with Sec-132 & 197 of Companies Act 2017. Subsequent to the AGM, we will be submitting the annual return within 30 days as prescribed in Section-130. Therefore, certified true copy of the same will be furnished once done with all the necessary submission of annual return.

Yours sincerely



**Maaz Mashkoor**  
**Director**  
**Burj DG (Private) Limited**



## Net Worth & Equity/Debt Ratio



MM

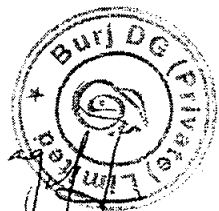
**Burj DG (Private) Limited**  
**Statement of Financial Position**  
**As at 30 September 2021**

	Note	2021 (Rupees)
<b>ASSETS</b>		
<b>Non-current assets</b>		
Property, plant and equipment		215,491,696
		215,491,696
<b>Current assets</b>		
Cash and cash equivalents		21,187,364
Trade receivables		1,845,550
Sales tax-Input		2,681,520
Advance and prepayments		193,175
		25,907,608
<b>Total assets</b>		<b>241,399,304</b>
<b>EQUITY AND LIABILITIES</b>		
<b>Share capital and Reserve</b>		
Issued, Subscribed and paid up capital (03 shares)		30
Advance against Equity		206,370,602
<b>Reserves</b>		
Other reserves		681,501
		207,052,133
<b>Liabilities</b>		
<b>Current liabilities</b>		
Payable to Supplier		-
Loan payable		34,140,000
Sales tax payable		207,172
Other Payable		-
		34,347,172
<b>Total funds and liabilities</b>		<b>241,399,304</b>
<b>Contingencies and commitments</b>		



**Burj DG (Private) Limited**  
**Statement of Profit and Loss**  
**For the Period Ended from 01 January 2021 to 30 September 2021**

	Note	2021 (Rupees )
<b>INCOME</b>		
Income from power distribution		5,185,638
<b>Total income</b>		<b>5,185,638</b>
<b>EXPENDITURE</b>		
Cost of Services		(1,215,036)
Administration Expense		(1,534,667)
<b>Operating expenses</b>		<b>(2,749,703)</b>
<b>Operating profit/(loss)</b>		<b>2,435,935</b>
Bank Charges		(18,485)
Exchange gain/(loss) (Realized)		(407,172)
Exchange gain/(loss) (Unrealized)		(549,415)
		(975,071)
<b>Profit before tax</b>		<b>1,460,864</b>
Taxation		-
<b>Profit after tax</b>		<b>1,460,864</b>





**Annexure A**  
**Certificate of Incorporation**



N/M

A079750



SECURITIES AND EXCHANGE COMMISSION OF PAKISTAN

COMPANY REGISTRATION OFFICE, KARACHI

CERTIFICATE OF INCORPORATION

[Under section 16 of the Companies Act, 2017 (XIX of 2017)]

Corporate Universal Identification No. 0157069

I hereby certify that BURJ DG (PRIVATE) LIMITED is this day incorporated under the Companies Act, 2017 (XIX of 2017) and that the company is limited by shares.

Given under my hand at Karachi this Third day of September, Two Thousand and Twenty

Incorporation fee Rs. 1,000/-



(Muhammad Nasir Khan)  
Additional Joint Registrar



Certified True Copy  
29/12/21  
Secretary, Ministry of Companies

**Annexure B**  
**Memorandum and Articles**



MM

**THE COMPANIES ACT, 2017(XIX of 2017)**

**(PRIVATE COMPANY LIMITED BY SHARES)**

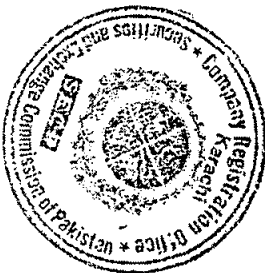
**MEMORANDUM**

**OF**

**ASSOCIATION**

**OF**

**BURJ DG (PRIVATE) LIMITED**



# THE COMPANIES ACT, 2017(XIX of 2017)

(PRIVATE COMPANY LIMITED BY SHARES)

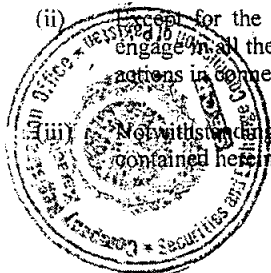
## MEMORANDUM OF ASSOCIATION OF

### “BURJ DG (PRIVATE) LIMITED”

1. The name of the company is **BURJ DG (PRIVATE) LIMITED**
2. The Registered Office of the Company shall be situated in the Province of Sindh, in the Islamic Republic of Pakistan.
3. (i) To carry on, primarily, the business of power generation, distribution and selling power to utility companies, power distribution networks and organizations in the power sector, within and outside the country as independent power producer of solar, thermal, hydel, nuclear, wind, steam, and/or any other alternative / renewable energy sources, and bio-energy. In connection with above to set up, operate and manage one or more Power Plants in order to generate, sell and supply electricity to industrial and other consumers, through distribution networks established, owned and operated by the company itself or by any other person, corporate body, autonomous or semi-autonomous corporation or authority or local body, and for that purpose to acquire land, whether freehold or leasehold, machinery and equipment, and construct, install, operate and maintain thereon power houses, civil and mechanical works and structures, grid stations, transmission towers, power lines, buildings, workshops and other facilities as may from time to time be necessary for the attainment of the objects of the company.

(ii) Except for the businesses mentioned in sub-clause (iii) hereunder, the company may engage in all the lawful businesses and shall be authorized to take all necessary steps and actions in connection therewith and ancillary thereto.

(iii) Notwithstanding anything contained in the foregoing sub-clauses of this clause nothing contained herein shall be construed as empowering the Company to undertake or indulge,



directly or indirectly in the business of a Banking Company, Non-banking Finance Company (Mutual Fund, Leasing, Investment Company, Investment Advisor, Real Estate Investment Trust management company, Housing Finance Company, Venture Capital Company, Discounting Services, Microfinance or Microcredit business), Insurance Business, *Modaraba* management company, Stock Brokerage business, forex, real estate business, managing agency, business of providing the services of security guards or any other business restricted under any law for the time being in force or as may be specified by the Commission.

(iv) It is hereby undertaken that the company shall not:

- (a) engage in any of the business mentioned in sub-clause (iii) above or any unlawful operation;
- (b) launch multi-level marketing (MLM), Pyramid and Ponzi Schemes, or other related activities/businesses or any lottery business;
- (c) engage in any of the permissible business unless the requisite approval, permission, consent or licence is obtained from competent authority as may be required under any law for the time being in force.

4. The liability of the members is limited.

5. The authorized share capital of the company is Rs.100,000/- (Rupees One Hundred Thousand only) divided into 10,000 (Ten Thousand) ordinary shares of Rs.10 (Rupees Ten).



We, the several persons whose names and addresses are subscribed below, 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 as set opposite our respective names:

Name and surname (present & former) in full (in Block Letters)	NIC No. (in case of foreigner, Passport No)	Father's/ Husband's Name in full	Nationality (ies) with any former Nationality	Occupation	Usual residential address in full or the registered/ principal office address for a subscriber other than natural person	Number of shares taken by each subscriber (in figures and words)	Signatures
SAAD UZ ZAMAN	42301-8489997-7	QAMAR UZ ZAMAN	PAKISTANI	Business Executive	House No. F-52/2, Block 7 Clifton, Karachi	1 (One)	
MAAZ MASHKOOR	42201-4389581-5	MASHKOOR ULLAH	PAKISTANI	Business Executive	House No: K-504, Creek Vista, DHA Phase 8, Karachi	1 (One)	
FARID ARSHAD MASOOD	42301-3551103-7	ARSHAD MASOOD	PAKISTANI	Business Executive	B56 Lime Tree Valeey, JGE, Dubai, UAE	1 (One)	
Total number of shares taken (in figures and words)						3 (Three)	

Dated the 20<sup>th</sup> day of August, 2020



**THE COMPANIES ACT, 2017 (XIX of 2017)**

(Private Company Limited by Shares)

**ARTICLES OF ASSOCIATION**

**OF**

**BURJ DG (PRIVATE) LIMITED**

**PRELIMINARY**

1. (1) In these regulations-

- (a) "section" means section of the Act;
- (b) "the Act" means the Companies Act, 2017; and
- (c) "the seal" means the common seal or official seal of the company as the case may be.

(2) Unless the context otherwise requires, words or expressions contained in these regulations shall have the same meaning as in this Act; and words importing the singular shall include the plural, and *vice versa*, and words importing the masculine gender shall include feminine, and words importing persons shall include bodies corporate.

**PRIVATE COMPANY**

2. The Company is a "Private Company" within the meaning of Section 2(1)(49) of the Act and accordingly:

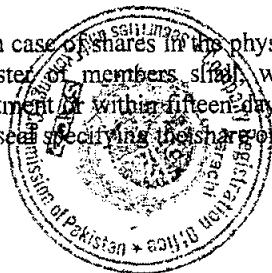
- (1) No invitation shall be made to the public to subscribe for the shares or debentures of the Company.
- (2) The number of the members of the Company (exclusive of persons in the employment of the Company), shall be limited to fifty, provided that for the purpose of this provision, where two or more 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 herein appearing.

**BUSINESS**

3. The directors shall have regard to the restrictions on the commencement of business imposed by section 19 if, and so far as, those restrictions are binding upon the company.

**SHARES**

4. In case of shares in the physical form, every person whose name is entered as a member in the register of members shall, without payment, be entitled to receive, within thirty days after allotment or within fifteen days of the application for registration of transfer, a certificate under the seal specifying the share or shares held by him and the amount paid up thereon:





Provided that if the shares are in book entry form or in case of conversion of physical shares and other transferable securities into book-entry form, the company shall, within ten days after an application is made for the registration of the transfer of any shares or other securities to a central depository, register such transfer in the name of the central depository.

5. The company shall not be bound to issue more than one certificate in respect of a share or shares in the physical form, held jointly by several persons and delivery of a certificate for a share to one of several joint holders shall be sufficient delivery to all.

6. If a share certificate in physical form is defaced, lost or destroyed, it may be renewed on payment of such fee, if any, not exceeding one hundred rupees, and on such terms, if any, as to evidence and indemnity and payment of expenses incurred by the company in investigating title as the directors think fit.

7. Except to the extent and in the manner allowed by section 86, no part of the funds of the company shall be employed in the purchase of, or in loans upon the security of, the company's shares.

#### TRANSFER AND TRANSMISSION OF SHARES

8. The instrument of transfer of any share in physical form in the company shall be executed both by the transferor and transferee, and the transferor shall be deemed to remain holder of the share until the name of the transferee is entered in the register of members in respect thereof.

9. Shares in physical form in the company shall be transferred in the following form, or in any usual or common form which the directors shall approve: -

##### Form for Transfer of Shares

(First Schedule to the Companies Act, 2017)

I..... s/o ..... r/o..... (hereinafter called "the transferor") in consideration of the sum of rupees ..... paid to me by..... s/o ..... r/o..... (hereinafter called "the transferee"), do hereby transfer to the said transferee..... the share (or shares) with distinctive numbers from ..... to..... inclusive, in the..... Limited, to hold unto the said transferee, his executors, administrators and assigns, subject to the several conditions on which I held the same at the time of the execution hereof, and I, the said transferee, do hereby agree to take the said share (or shares) subject to the conditions aforesaid.  
As witness our hands this..... day of....., 20.....

Signature .....  
**Transferor**  
Full Name, Father's / Husband's Name  
CNIC Number (in case of foreigner,  
Passport Number)  
Nationality  
Occupation and usual Residential Address



Witness 1:

Signature..... date .....  
Name, CNIC Number and Full Address

Signature .....

**Transferee**

Full Name, Father's / Husband's Name

CNIC Number (in case of foreigner,

Passport Number)

Nationality

Occupation and usual Residential Address

Cell number

Landline number, if any

Email address

**Witness 2:**

Signature.....date .....

Name, CNIC Number and Full Address



**Bank Account Details of Transferee for Payment of Cash Dividend**  
(Mandatory in case of a listed company or optional for any other company)

It is requested that all my cash dividend amounts declared by the company, may be credited into the following bank account:

Title of Bank Account	
Bank Account Number	
Bank's Name	
Branch Name and Address	

It is stated that the above mentioned information is correct and that I will intimate the changes in the above-mentioned information to the company and the concerned Share Registrar as soon as these occur.

.....  
Signature of the Transferee(s)

10. (1) Subject to the restrictions contained in regulation 10 and 11, the directors shall not refuse to transfer any share unless the transfer deed is defective or invalid. The directors may also suspend the registration of transfers during the ten days immediately preceding a general meeting or prior to the determination of entitlement or rights of the shareholders by giving seven days' previous notice in the manner provided in the Act. The directors may, in case of shares in physical form, decline to recognise any instrument of transfer unless—

- a) a fee not exceeding fifty rupees as may be determined by the directors is paid to the company in respect thereof; and
- b) the duly stamped instrument of transfer is accompanied by the certificate of the shares to which it relates, and such other evidence as the directors may reasonably require to show the right of the transferor to make the transfer.

(2) If the directors refuse to register a transfer of shares, they shall within fifteen days after the date on which the transfer deed was lodged with the company send to the transferee and the transferor notice of the refusal indicating 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.

Provided that the company shall, where the transferee is a central depository the refusal shall be conveyed within five 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 the removal of such defect or invalidity, be entitled to re-lodge the transfer deed with the company.

**TRANSMISSION OF SHARES**

11. The ~~executors, administrators, heirs, or nominees, as the case may be, of a deceased sole holder of a share shall be the only persons recognised by the company to deal with the share in accordance with the law. In the case of a share registered in the names of two or more holders, the survivors or survivors of the executors or administrators of the deceased survivor, shall be the~~

only persons recognised by the company to deal with the share in accordance with the law.

12. The shares or other securities of a deceased member shall be transferred on application duly supported by succession certificate or by lawful award, as the case may be, in favour of the successors to the extent of their interests and their names shall be entered to the register of members.

13. A person may on acquiring interest in a company as member, represented by shares, at any time after acquisition of such interest deposit with the company a nomination conferring on a person, being the relatives of the member, namely, a spouse, father, mother, brother, sister and son or daughter, the right to protect the interest of the legal heirs in the shares of the deceased in the event of his death, as a trustee and to facilitate the transfer of shares to the legal heirs of the deceased subject to succession to be determined under the Islamic law of inheritance and in case of non-Muslim members, as per their respective law.

14. The person nominated under regulation 12 shall, after the death of the member, be deemed as a member of company till the shares are transferred to the legal heirs and if the deceased was a director of the company, not being a listed company, the nominee shall also act as director of the company to protect the interest of the legal heirs.

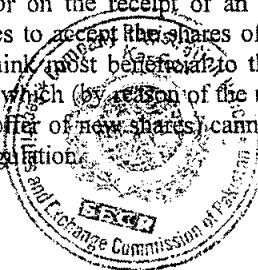
15. A person to be deemed as a member under regulation 11, 12 and 13 to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would be entitled if he were the registered holder of the share and exercise any right conferred by membership in relation to meetings of the company.

#### ALTERATION OF CAPITAL

16. The company may, by special resolution-

- (a) increase its authorised capital by such amount as it thinks expedient;
- (b) consolidate and divide the whole or any part of its share capital into shares of larger amount than its existing shares;
- (c) sub-divide its shares, or any of them, into shares of smaller amount than is fixed by the memorandum;
- (d) cancel shares which, at the date of the passing of the resolution in that behalf, have not been taken or agreed to be taken by any person, and diminish the amount of its share capital by the amount of the share so cancelled.

17. Subject to the provisions of the Act, all new shares shall at the first instance be offered to such persons as at the date of the offer are entitled to such issue in proportion, as nearly as the circumstances admit, to the amount of the existing shares to which they are entitled. The offer shall be made by letter of offer specifying the number of shares offered, and limiting a time within which the offer, if not accepted, will deem to be declined, and after the expiration of that time, or on the receipt of an intimation from the person to whom the offer is made that he declines to accept the shares offered, the directors may dispose of the same in such manner as they think most beneficial to the company. The directors may likewise so dispose of any new shares which (by reason of the ratio which the new shares bear to shares held by persons entitled to an offer of new shares) cannot, in the opinion of the directors, be conveniently offered under this regulation.



18. 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.

19. The company may, by special resolution-

(a) consolidate and divide its share capital into shares of larger amount than its existing shares;

(b) sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the memorandum of association, subject, nevertheless, to the provisions of section 85;

(c) cancel any shares which, at the date of the passing of the resolution, have not been taken or agreed to be taken by any person.

20. The company may, by special resolution, reduce its share capital in any manner and with, and subject to confirmation by the Court and any incident authorised and consent required, by law.

#### GENERAL MEETINGS

21. The statutory general meeting of the company shall be held within the period required by section 131.

22. A general meeting, to be called annual general meeting, shall be held, in accordance with the provisions of section 132, within sixteen months from the date of incorporation of the company and thereafter once at least in every year within a period of one hundred and twenty days following the close of its financial year.

23. All general meetings of a company other than the statutory meeting or an annual general meeting mentioned in sections 131 and 132 respectively shall be called extraordinary general meetings.

24. The directors may, whenever they think fit, call an extraordinary general meeting, and extraordinary general meetings shall also be called on such requisition, or in default, may be called by such requisitionists, as provided by section 133. If at any time there are not within Pakistan sufficient directors capable of acting to form a quorum, any director of the company may call an extraordinary general meeting in the same manner as nearly as possible as that in which meetings may be called by the directors.

25. The company may provide video-link facility to its members for attending general meeting at places other than the town in which general meeting is taking place after considering the geographical dispersal of its members:

Provided that in case of listed companies if the members holding ten percent of the total paid up capital or such other percentage of the paid up capital as may be specified, are resident in any other city, the company shall provide the facility of video-link to such members for attending annual general meeting of the company, if so required by such members in writing to the company at least seven days before the date of the meeting.

## NOTICE AND PROCEEDINGS OF GENERAL MEETINGS

26. Twenty-one days' notice at the least (exclusive of the day on which the notice is served or deemed to be served, but inclusive of the day for which notice is given) specifying the place, the day and the hour of meeting and, in case of special business, the general nature of that business, shall be given in manner provided by the Act for the general meeting, to such persons as are, under the Act or the regulations of the company, entitled to receive such notice 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.

27. All the business transacted at a general meeting shall be deemed special other than the business stated in sub-section (2) of section 134 namely; the consideration of financial statements and the reports of the board and auditors, the declaration of any dividend, the election and appointment of directors in place of those retiring, and the appointment of the auditors and fixing of their remuneration.

28. No business shall be transacted at any general meeting unless a quorum of members is present at that time when the meeting proceeds to business. The quorum of the general meeting shall be-

- (a) in the case of a public listed company, not less than ten members present personally, or through video-link who represent not less than twenty-five percent of the total voting power, either of their own account or as proxies;
- (b) in the case of any other company having share capital, two members present personally, or through video-link who represent not less than twenty-five percent of the total voting power, either of their own account or as proxies.

29. If within half an hour from the time appointed for the meeting a quorum is not present, the meeting, if called upon the requisition of members, shall be dissolved; in any other case, it shall stand adjourned to the same day in the next week at the same time and place, and, if at the adjourned meeting a quorum is not present within half an hour from the time appointed for the meeting, the members present, being not less than two, shall be a quorum.

30. The chairman of the board of directors, if any, shall preside as chairman at every general meeting of the company, but if there is no such chairman, or if at any meeting he is not present within fifteen minutes after the time appointed for the meeting, or is unwilling to act as chairman, any one of the directors present may be elected to be chairman, and if none of the directors is present or willing to act as chairman, the members present shall choose one of their number to be chairman.

31. The chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting), adjourn the meeting from time to time but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for fifteen days or more, notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid, it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.

32. (1) At any general meeting a resolution put to the vote of the meeting shall 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 resolution.

(2) At any general meeting, the company shall transact such businesses as may be notified by the Commission, only through postal ballot.

33. A poll may be demanded only in accordance with the provisions of section 143.

34. If a poll is duly demanded, it shall be taken in accordance with the manner laid down in sections 144 and 145 and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

35. A poll demanded on the election of chairman or on a question of adjournment shall be taken at once.

36. In the case of an equality of votes, whether on a show of hands or on a poll, the chairman of the meeting at which the show of hands takes place, or at which the poll is demanded, shall have and exercise a second or casting vote.

37. Except for the businesses specified under sub-section (2) of section 134 to be conducted in the annual general meeting, the members of a private company or a public unlisted company (having not more than fifty members), may pass a resolution (ordinary or special) by circulation signed by all the members for the time being entitled to receive notice of a meeting. The resolution by circulation shall be deemed to be passed on the date of signing by the last of the signatory member to such resolution.

#### VOTES OF MEMBERS

38. Subject to any rights or restrictions for the time being attached to any class or classes of shares, on a show of hands every member present in person shall have one vote except for election of directors in which case the provisions of section 159 shall apply. On a poll every member shall have voting rights as laid down in section 134.

39. In case of joint-holders, the vote of the senior who tenders a vote, whether in person or by proxy or through video-link 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 of members.

40. A member of unsound mind, or in respect of whom an order has been made by any court having jurisdiction in lunacy, may vote, whether on show of hands or on a poll or through video link, by his committee or other legal guardian, and any such committee or guardian may, on a poll, vote by proxy.

41. On a poll votes may be given either personally or through video-link, by proxy or through postal ballot:

Provided that nobody corporate shall vote by proxy as long as a resolution of its directors

in accordance with the provisions of section 138 is in force.

42. (1) The instrument appointing a proxy shall be in writing under the hand of the appointer or of his attorney duly authorised in writing.

(2) The instrument appointing a proxy and the power-of-attorney or other authority (if any) under which it is signed, or a notarially certified copy of that power or authority, shall be deposited at the registered office of the company not less than forty-eight hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid.

43. An instrument appointing a proxy may be in the following form, or a form as near thereto as may be:

#### INSTRUMENT OF PROXY

..... Limited

"I ..... s/o ..... r/o ..... being a member of the ..... Limited, hereby appoint ..... s/o ..... r/o ..... as my proxy to attend and vote on my behalf at the (statutory, annual, extraordinary, as the case may be) general meeting of the company to be held on the ..... day of ....., 20..... and at any adjournment thereof."

44. A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, or the transfer of the share in respect of which the proxy is given, provided that no intimation in writing of such death, insanity, revocation or transfer as aforesaid shall have been received by the company at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

#### DIRECTORS

45. The following subscribers of the memorandum of association shall be the first directors of the company, so, however, that the number of directors shall not in any case be less than that specified in section 154 and they shall hold office until the election of directors in the first annual general meeting:

1. SAAD UZ ZAMAN
2. MAAZ MASHKOOR
3. FARID ARSHAD MASOOD

46. The remuneration of the directors shall from time to time be determined by the company in general meeting subject to the provisions of the Act.

47. Save as provided in section 153, no person shall be appointed as a director unless he is a member of the company.





## POWERS AND DUTIES OF DIRECTORS

48. 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 Act or any statutory modification thereof for the time being in force, or by these regulations, required to be exercised by the company in general meeting, subject nevertheless to the provisions of the Act or to any of these regulations, and such regulations being not inconsistent with the aforesaid provisions, as may be prescribed by the company in general meeting but no regulation made by the company in general meeting shall invalidate any prior act of the directors which would have been valid if that regulation had not been made.

49. The directors shall appoint a chief executive in accordance with the provisions of sections 186 and 187.

50. The amount for the time being remaining undischarged of moneys borrowed or raised by the directors for the purposes of the company (otherwise than by the issue of share capital) shall not at any time, without the sanction of the company in general meeting, exceed the issued share capital of the company.

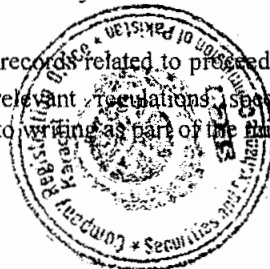
51. The directors shall duly comply with the provisions of the Act, or any statutory modification thereof for the time being in force, and in particular with the provisions in regard to the registration of the particulars of mortgages, charges and pledge affecting the property of the company or created by it, to the keeping of a register of the directors, and to the sending to the registrar of an annual list of members, and a summary of particulars relating thereto and notice of any consolidation or increase of share capital, or sub-division of shares, and copies of special resolutions and a copy of the register of directors and notifications of any changes therein.

## MINUTE BOOKS

52. The directors shall cause records to be kept and minutes to be made in book or books with regard to ☐

- (a) all resolutions and proceedings of general meeting(s) and the meeting(s) of directors and Committee(s) of directors, and every member present at any general meeting and every director present at any meeting of directors or Committee of directors shall put his signature in a book to be kept for that purpose;
- (b) recording the names of the persons present at each meeting of the directors and of any committee of the directors, and the general meeting; and
- (c) all orders made by the directors and Committee(s) of directors:

Provided that all records related to proceedings through video-link shall be maintained in accordance with the relevant regulations specified by the Commission which shall be appropriately rendered into writing as part of the minute books according to the said regulations.



## THE SEAL

53. The directors shall provide for the safe custody of the seal and the seal shall not be affixed to any instrument except by the authority of a resolution of the board of directors or by a committee of directors authorized in that behalf by the directors and in the presence of at least two directors and of the secretary or such other person as the directors may appoint for the purpose; and those two directors and secretary or other person as aforesaid shall sign every instrument to which the seal of the company is so affixed in their presence.

## DISQUALIFICATION OF DIRECTORS

54. No person shall become the director of a company if he suffers from any of the disabilities or disqualifications mentioned in section 153 or disqualified or debarred from holding such office under any of the provisions of the Act as the case may be and, if already a director, shall cease to hold such office from the date he so becomes disqualified or disabled:

Provided, however, that no director shall vacate his office by reason only of his being a member of any company which has entered into contracts with, or done any work for, the company of which he is director, but such director shall not vote in respect of any such contract or work, and if he does so vote, his vote shall not be counted.

## PROCEEDINGS OF DIRECTORS

55. The directors may meet together for the dispatch of business, adjourn and otherwise regulate their meetings, as they think fit. A director may, and the secretary on the requisition of a director shall, at any time, summon a meeting of directors. Notice sent to a director through email whether such director is in Pakistan or outside Pakistan shall be a valid notice.

56. The directors may elect a chairman of their meetings and determine the period for which he is to hold office: but, if no such chairman is elected, or if at any meeting the chairman is not present within ten minutes after the time appointed for holding the same or is unwilling to act as chairman, the directors present may choose one of their number to be chairman of the meeting.

57. At least one-third ( $\frac{1}{3}^{\text{rd}}$ ) of the total number of directors or two (2) directors whichever is higher, for the time being of the company, present personally or through video-link, shall constitute a quorum.

58. Save as otherwise expressly provided in the Act, every question at meetings of the board shall be determined by a majority of votes of the directors present in person or through video-link, each director having one vote. In case of an equality of votes or tie, the chairman shall have a casting vote in addition to his original vote as a director.

59. The directors may delegate any of their powers not required to be exercised in their meeting to committees consisting of such member or members of their body as they think fit; any committee so formed shall, in the exercise of the powers so delegated, conform to any restrictions that may be imposed on them by the directors.

60. (1) A committee may elect a chairman of its meetings; but, if no such chairman is elected, or if at any meeting the chairman is not present within ten minutes after the time appointed for holding the same or is unwilling to act as chairman, the members present may choose one of

their number to be chairman of the meeting.

(2) A committee may meet and adjourn as it thinks proper. Questions arising at any meeting shall be determined by a majority of votes of the members present. In case of an equality of votes, the chairman shall have and exercise a second or casting vote.

61. All acts done by any meeting of the directors or of a committee of directors, or by any person acting as a director, shall, notwithstanding that it be afterwards discovered that there was some defect in the appointment of any such directors or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a director.

62. A copy of the draft minutes of meeting of the board of directors shall be furnished to every director within seven working days of the date of meeting.

63. A resolution in writing signed by all the directors for the time being entitled to receive notice of a meeting of the directors shall be as valid and effectual as if it had been passed at a meeting of the directors duly convened and held.

#### FILLING OF VACANCIES

64. 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 159 for a term of three years.

65. A retiring director shall be eligible for re-election.

66. The directors shall comply with the provisions of sections 154 to 159 and sections 161, 162 and 167 relating to the election of directors and matters ancillary thereto.

67. Any casual vacancy occurring on the board of directors may be filled up by the directors, but the person so chosen shall be subject to retirement at the same time as if he had become a director on the day on which the director in whose place he is chosen was last elected as director.

68. The company may remove a director but only in accordance with the provisions of the Act.

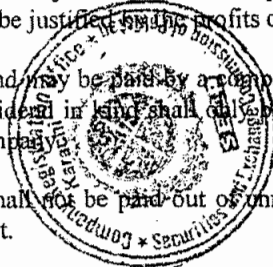
#### DIVIDENDS AND RESERVE

69. The company in general meeting may declare dividends but no dividend shall exceed the amount recommended by the directors.

70. The directors may from time to time pay to the members such interim dividends as appear to the directors to be justified by the profits of the company.

71. Any dividend may be paid by a company either in cash or in kind only out of its profits. The payment of dividend in kind shall only be in the shape of shares of listed company held by the distributing company.

72. Dividend shall not be paid out of unrealized gain on investment property credited to profit and loss account.



73. Subject to the rights of persons (if any) entitled to shares with special rights as to dividends, all dividends shall be declared and paid according to the amounts paid on the shares.

74. (1) The directors 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 directors, 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, either be employed in the business of company or be invested in such investments (other than shares of the company) as the directors may, subject to the provisions of the Act, from time to time think fit.

(2) The directors may carry forward any profits which they may think prudent not to distribute, without setting them aside as a reserve.

75. If several persons are registered as joint-holders of any share, any one of them may give effectual receipt for any dividend payable on the share.

76. (1) Notice of any dividend that may have been declared shall be given in manner hereinafter mentioned to the persons entitled to share therein but, in the case of a public company, the company may give such notice by advertisement in a newspaper circulating in the Province in which the registered office of the company is situate.

(2) Any dividend declared by the company shall be paid to its registered shareholders or to their order. The dividend payable in cash may be paid by cheque or warrant or in any electronic mode to the shareholders entitled to the payment of the dividend, as per their direction.

(3) In case of a listed company, any dividend payable in cash shall only be paid through electronic mode directly into the bank account designated by the entitled shareholders.

77. The dividend shall be paid within the period laid down under the Act.

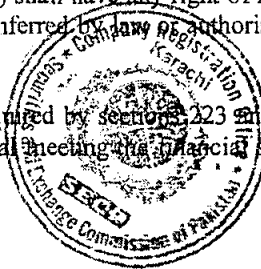
## ACCOUNTS

78. The directors shall cause to be kept proper books of account as required under section 220.

79. The books of account shall be kept at the registered office of the company or at such other place as the directors shall think fit and shall be open to inspection by the directors during business hours.

80. The directors shall from time to time determine whether and to what extent and at what time and places and under what conditions or regulations the accounts and books or papers of the company or any of them shall be open to the inspection of members not being directors, and no member (not being a director) shall have any right of inspecting any account and book or papers of the company except as conferred by law or authorised by the directors or by the company in general meeting.

81. The directors shall as required by sections 223 and 226 cause to be prepared and to be laid before the company in general meeting the financial statements duly audited and reports as are referred to in those sections.



82. The financial statements and other reports referred to in regulation 80 shall be made out in every year and laid before the company in the annual general meeting in accordance with sections 132 and 223.

83. A copy of the financial statements and reports of directors and auditors shall, at least twenty-one days preceding the meeting, be sent to the persons entitled to receive notices of general meetings in the manner in which notices are to be given hereunder.

84. The directors shall in all respect comply with the provisions of sections 220 to 227.

85. Auditors shall be appointed and their duties regulated in accordance with sections 246 to 249.

### NOTICES

86. (1) A notice may be given by the company to any member to his registered address or if he has no registered address in Pakistan to the address, if any, supplied by him to the company for the giving of notices to him against an acknowledgement or by post or courier service or through electronic means or in any other manner as may be specified by the Commission.

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

87. 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 share.

88. 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 in the manner provided under regulation 85 addressed to them by name, or by the title or representatives of the deceased, or assignees of the insolvent, or by any like description, at the address, supplied for the purpose by the person claiming to be so entitled.

89. Notice of every general meeting shall be given in the manner hereinbefore authorised to (a) every member of the company and also to (b) every person entitled to a share in consequence of the death or insolvency of a member, who but for his death or insolvency would be entitled to receive notice of the meeting, and (c) to the auditors of the company for the time being and every person who is entitled to receive notice of general meetings.

### WINDING UP

90. (1) In the case of members' voluntary winding up, with the sanction of a special resolution of the company, and, in the case of creditors' voluntary winding up, of a meeting of the creditors, the liquidator shall exercise any of the powers given by sub-section (1) of section 337 of the Act to a liquidator in a winding up by the court including *inter-alia* divide amongst the members, in specie or kind, the whole or any part of the assets of the company, whether they consist of property of the same kind or not.

(2) For the purpose aforesaid, the liquidator may set such value as he 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.

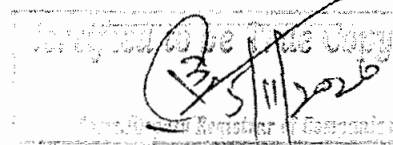
## INDEMNITY

91. Every officer 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 in defending any proceedings, whether civil or criminal, arising out of his dealings in relation to the affairs of the company, except those brought by the company against him, in which judgment is given in his favour or in which he is acquitted, or in connection with any application under section 492 in which relief is granted to him by the Court.

We, the several persons whose names and addresses are subscribed below, 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 our respective names:

Name and surname (present & former) in full (in Block Letters)	NIC No. (in case of foreigner, Passport No)	Father's/ Husband's Name in full	Nationality (ies) with any former Nationality	Occupation	Usual residential address in full or the registered/ principal office address for a subscriber other than natural person	Number of shares taken by each subscriber (in figures and words)	Signatures
SAAD UZ ZAMAN	42301-8489997-7	QAMAR UZ ZAMAN	PAKISTANI	Business Executive	House No. F-52/2, Block 7 Clifton, Karachi	1 (One)	
MAAZ MASHKOOR	42201-4389581-5	MASHKOOR ULLAH	PAKISTANI	Business Executive	House No: K-504, Creek Vista, DHA Phase 8, Karachi	1 (One)	
FARID ARSHAD MASOOD	42301-3551103-7	ARSHAD MASOOD	PAKISTANI	Business Executive	B56 Lime Tree Valeey, JGE, Dubai, UAE	1 (One)	
						3 (Three)	

Dated the 20th day of August 2020





**Annexure C**

**Form 1**



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Inc. Form - II

COMPANIES (INCORPORATION) REGULATIONS, 2017  
[See Section 16 of the Act and Regulation 5]

## APPLICATION FOR COMPANY INCORPORATION

## PART - I

1.1 Name of the Company	BURJ DG (PRIVATE) LIMITED	
1.2 Fee Payment Details	1.2.1 Challan No	E-2020-142655
	1.2.2 Challan Amount (Rs.)	250.0

## PART - II

## Section - A - Company Information

2.1 Correspondence Address*				
City	District	Province		
Telephone Number	Email Address			
Mobile Number				
* Information regarding Correspondence address is to be provided only if company does not have a place at its registered office at the time of incorporation of the company				
2.2 Registered Office Address, if any	3rd Floor., Faysal Bank Building, 16 Abdullah Haroon Road, Karachi, Karachi, Saddar Town, KARACHI SOUTH, Sindh			
City	Saddar Town	District	KARACHI SOUTH	Province Sindh
Telephone Number	02135631537	Website (if any)		
Mobile Number	03343077630	Email Address		salaem.zaman@burjcap.com
2.3 Principal line of business (Brief object as per clause 3(i) of the Memorandum may be mentioned)	--ALTERNATE ENERGY			

## Section - B - Capital Structure

	Class / Kind	Face Value	No of Shares	Total Amount
2.4 Authorised Capital	Ordinary	10	10000	100000
2.5 Paid Up Capital	Ordinary	10	3	30

## Section - C - Special Business Information\*

(Applicable in case of Banking Company, Non-banking Finance Company, Insurance company, Modaraba management company, Stock Brokerage business, forex, real estate business, managing agency, business of providing the services of security guards and any other business restricted under any other law or as may be notified by the commission)

2.6 Nature of business in case of specialized business requiring licence / permission / approval (please specify and also attach NOC / approval of the relevant authority)

N/A
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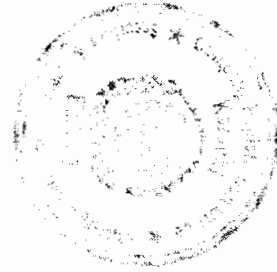
(Additional documents will be required by the registrar)







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Section - E - If the company intends to adopt tables contained in First Schedule to the Companies Act, 2017 (XIX of 2017) as its articles of association

- ☒ Table A- Part I (Articles of association of company limited by shares)  
☐ Table A- Part II (Articles of association of single member company limited by shares)

Section - F - The company limited by shares in case it has not adopted articles contained in First Schedule to the Act company limited by guarantee and unlimited company shall attach the articles of association.

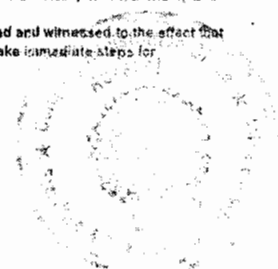
## PART- III

## Declaration under section 16

3.1 Declarant's Name	Mr Saad Uz Zaman
3.2 Declarant Profession / Designation	<input type="checkbox"/> Authorized Intermediary <input checked="" type="checkbox"/> a person named in the articles as Director of the proposed company
3.3 Declaration	<p>I do hereby solemnly and sincerely declare that:</p> <p>a) I have been authorized as declarant by the subscribers;  b) all the requirements of the Companies Act, 2017, and the regulations made there under in respect of matters precedent to the registration of the said Company and incidental thereto have been complied with  c) I make this solemn declaration conscientiously believing the same to be true.</p>
3.4 Declarant Signature	
3.5 Registration No of authorized intermediary, if applicable	
3.6 Date(dd/mm/yyyy)	24/08/2020

## ENCLOSURES

- (i) Original paid bank challan evidencing payment of fee;
- (ii) Memorandum of Association;
- (iii) Articles of Association, where applicable;
- (iv) Copies of valid CNIC/NICOP of the subscribers/directors/chief executive officer or copy of Passport in case of a foreigner;
- (v) Copy of valid CNIC/NICOP of Nominee only in case of single member company or copy of Passport in case of a foreigner;
- (vi) Copy of valid CNIC of witness in case of physical filing;
- (vii) NOC/Letter of Intent/ License (if any) of the relevant regulatory authority in case of specialized business;
- (viii) Authority letter for filing of documents for the proposed company on behalf of the subscribers as per requirement of clause (vi) of sub-regulation (2) of regulation 5.
- (ix) Copy of valid CNIC/Passport of person duly authorized by the Board of directors of a body corporate which is a subscriber. Further, along with copy of Board resolution along with and attendance sheet duly authorizing the representative. In case of a subscriber which is a limited liability partnership, copy of valid NIC/ Passport of designated partner empowered to act as such, along with copy of instrument empowering him;
- (x) In case the subscriber is a foreign company or a foreign body corporate, the profile of the company, detail of its directors, their nationality and country of origin, certified copy of its charter, statute or memorandum and articles etc.
- (xi) In case of foreign subscriber/ officer, an undertaking on stamp paper of requisite value duly signed, notarized and witnessed to the effect that in case name of subscriber/officer is not security cleared by MoI, the subscriber/officer and the company, shall take immediate steps for replacement and shall transfer shares if any, held by the subscriber.



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**Annexure D**  
**Applicant Financials**



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Burj Capital (USD '000)					
Year	2015	2016	2017	2018	2019
<b>Balance Sheet</b>					
Current Assets	3,979	5,109	11,855	22,750	26,853
Non-Current Assets	12,752	14,398	114,000	119,935	107,555
Total Assets	16,731	19,507	125,855	142,685	134,408
Current Liabilities	2,425	2,380	21,552	11,151	3,541
Non-Current Liabilities	7,425	10,435	75,041	91,647	91,751
Equity	6,881	6,693	29,267	39,887	39,115
<b>Income Statement</b>					
Revenue	0	0	0	16,145	17,989
Cost of Revenue	0	0	0	6,215	9,698
Gross Profit	0	0	0	9,930	8,291
Admin and General expenses	14	41	4,199	1,718	1,986
Operating Profit	(14)	(41)	(4,199)	8,212	6,305
Financial Charges	376	378	366	4,808	6,243
Other Income	874	968	194	916	1,092
Other Expenses	2	737	0	0	0
Profit / (Loss) before taxation	482	(188)	(4,371)	4,320	1,154
Taxation	0			101	44
Profit / (Loss) after taxation	482	(188)	(4,371)	4,219	1,110
Other Income - Gain/Loss on Translation	0		6,785	1,229	(1,083)
Total Comprehensive Profit	482	(188)	2,414	2,990	2,193
<b>Cashflow Statement</b>					
Cashflow from Operating Activities	452	-832	13,380	(5,890)	(9,708)
Cashflow from Investing Activities	-1290	-1645	(62,540)	(10,125)	6,574
Cashflow from Financing Activities	587	2699	49,632	24,235	(2,862)
Net Cashflow	-251	222	472	8,220	(5,996)



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**BURJ CAPITAL**  
**CONSOLIDATED STATEMENT OF FINANCIAL POSITION**  
**AS AT DECEMBER 31, 2019**

	Note	Dec 31, 2019 USD	Dec 31, 2018 USD
<b>Assets</b>			
<b>Non-current assets</b>			
Capital work in progress	4	10,004,030	9,043,216
Property plant and equipment	5	97,529,848	103,311,996
Advances and deposits	6	20,789	10,392
Investment in associate	7	-	7,569,107
		107,554,667	119,934,711
<b>Current assets</b>			
Trade receivables	8	13,553,638	4,340,571
Advances, deposits and prepayments	9	2,593,189	1,709,825
Cash and bank balances	10	10,706,104	16,699,493
		26,852,931	22,749,889
<b>Total assets</b>		<b>134,407,598</b>	<b>142,684,600</b>
<b>Equity and liabilities</b>			
<b>Share capital and reserves</b>			
Issued, subscribed and paid up capital	11	7,259,571	7,259,571
Accumulated profit		6,866,628	4,672,408
Other shareholder's interests		24,988,986	23,849,518
<b>Total equity</b>		<b>39,115,185</b>	<b>35,781,497</b>
<b>Non-current liabilities</b>			
Subordinated loans	12	7,742,160	4,105,468
Long term loans	13	84,008,811	91,646,639
		91,750,971	95,752,107
<b>Current liabilities</b>			
Trade and other payables	14	2,904,310	4,268,016
Due to related party	15	-	5,825,954
Interest payable	16	637,132	1,057,026
		3,541,442	11,150,996
Contingencies and commitments	17	-	-
<b>Total equity and liabilities</b>		<b>134,407,598</b>	<b>142,684,600.00</b>

The annexed notes form an integral part of these financial statements.

Chief Executive



Director


NIM

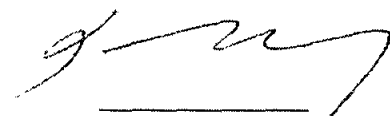
**BURJ CAPITAL**  
**CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME**  
**FOR THE YEAR ENDED DECEMBER 31, 2019**

	Note	Dec 31, 2019 USD	Dec 31, 2018 USD
Revenue		17,989,624	16,145,233
Cost of Revenue	18	(9,697,840)	(6,215,268)
Gross Profit		8,291,784	9,929,965
Administrative and general expenses	19	(1,986,308)	(1,717,620)
Operating (loss) for the year		6,305,476	8,212,345
Financial charges	20	(6,242,809)	(4,807,791)
Other income	21	1,092,435	915,946
Profit before taxation		1,155,102	4,320,500
Tax expense		(44,413)	(100,589)
Profit after taxation		1,110,689	4,219,911
Other comprehensive income- Gain/(Loss) on translation		1,083,531	(1,229,459)
Total comprehensive (loss) for the year		2,194,220	2,990,452

The annexed notes form an integral part of these financial statements.



  
 Chief Executive

  
 Director

NIM

**Annexure E**

**Form 1**



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Inc. Form - II

**COMPANIES (INCORPORATION) REGULATIONS, 2017**  
[See Section 18 of the Act and Regulation 5]

**APPLICATION FOR COMPANY INCORPORATION**

**PART - I**

1.1 Name of the Company	BURJ DG (PRIVATE) LIMITED	
1.2 Fee Payment Details	1.2.1 Challan No	E-2020-142858
	1.2.2. Challan Amount (Rs.)	250.0

**PART - II**

**Section - A - Company Information**

2.1 Correspondence Address*				
City	District	Province		
Telephone Number	Email Address			
Mobile Number				

\* Information regarding Correspondence address is to be provided only if company does not have a place at its registered office at the time of incorporation of the company

2.2 Registered office Address, if any	3rd Floor, Faysal Bank Building, 16 Abdullah Haroon Road, Karachi, Karachi, Saddar Town, KARACHI SOUTH, Sindh			
City	Saddar Town	District	KARACHI SOUTH	Province Sindh
Telephone Number	02135631537	Website (if any)		
Mobile Number	03343077830	Email Address		saleem.zaman@burjcap.com

2.3 Principal line of business (Brief object as per clause 3(f) of the Memorandum may be mentioned)	ALTERNATE ENERGY
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**Section - B - Capital Structure**

	Class / Kind	Face Value	No of Shares	Total Amount
2.4 Authorised Capital	Ordinary	10	10000	100000
2.5 Paid Up Capital	Ordinary	10	3	30

**Section - C - Special Business Information\***

(Applicable in case of Banking Company, Non-banking Finance Company, Insurance company, Moderaba management company, Stock Brokerage business, forex, real estate business, managing agency, business of providing the services of security guards and any other business restricted under any other law or as may be notified by the commission)

2.6 Nature of business in case of specialized business requiring licence / permission / approval (please specify and also attach NOC / approval of the relevant authority)

N/A
-----

\*(Additional documents will be required by the registrar)



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**Section - D - Company subscribers, directors, chief executive officer and in case of single member company, nominee****2.7 State Number of directors fixed by subscribers:***[Please note that as per law a company must have minimum director as follows:]*

Kind of company	Minimum number of directors required by law	No. of proposed directors
Single Member Company	01	
Private Limited Company	02	3
Public Limited Company	03	

**2.8 Details of subscribers, directors and chief executive officer \***

Name	Father/Husband Name	NIC/Passport No/NICOP	**Incorporation/Registration No	Nationality	***Occupation	Residential/Registered office address	NTN	Designation (Director/Subscriber/CEO) Please specify	No of shares subscribed (for subscriber)	****Signatures
Saad Uz Zaman	S/O Qamar Uz Zaman	4230184899977		Pakistan		House No: F 522, Kehkashan Block 7, Clifton, Karachi Karachi Sindh Pakistan		Director And Subscriber	1	Electronically signed by Saad Uz Zaman
Saad Uz Zaman	S/O Qamar Uz Zaman	4230184899977		Pakistan		House No: F 522, Kehkashan Block 7, Clifton, Karachi Karachi Sindh Pakistan		Chief Executive		
Maaz Mashkoor	S/O Mashkoor Ullah	4220143895615		Pakistan		House No: K-504, Creek Vista, DHA Phase 8, Karachi Karachi Sindh Pakistan		Director And Subscriber	1	Electronically signed by Maaz Mashkoor
Farid Arshad Masood	S/O Arshad Masood	4230135511037		Pakistan		856 Lime Tree Valley, JCE Dubai, UAE Karachi Sindh Pakistan		Director And Subscriber	1	Electronically signed by Farid Arshad Masood

\*Add details as applicable

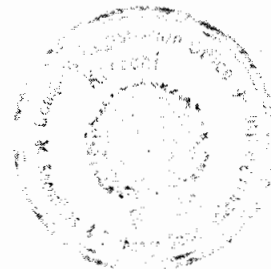
\*\* Applicable on subscribers other than natural persons

\*\*\*Please also mention names of other companies where directorship is held.

\*\*\*\* Signature of subscribers and consent to act as director or chief executive as the case may be. In case of online submission, the document will be signed electronically

**2.9 Details of Nominee (only in case of single member company- Nominee shall not be a person other than relatives of the member- namely, a spouse, father, mother, brother, sister and son or daughter)**

Name of Nominee	
NIC of Nominee	
Residential address of Nominee	
Telephone number of Nominee	
Email address of Nominee	
Relationship of Nominee with subscriber	
Signature of nominee	



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Section - E - If the company intends to adopt tables contained in First Schedule to the Companies Act, 2017 (XX of 2017) as its articles of association

- ☒ Table A- Part I (Articles of association of company limited by shares)  
☐ Table A- Part II (Articles of association of single member company limited by shares)

Section - F - The company limited by shares in case it has not adopted articles contained in First Schedule to the Act company limited by guarantee and unlimited company shall attach the articles of association.

#### PART- III

#### Declaration under section 16

3.1 Declarant's Name	Mr Saad Uz Zaman
3.2 Declarant Profession / Designation	<input type="checkbox"/> Authorized Intermediary <input checked="" type="checkbox"/> a person named in the articles as Director of the proposed company
3.3 Declaration	I do hereby solemnly and sincerely declare that: a) I have been authorized as declarant by the subscribers; b) all the requirements of the Companies Act, 2017, and the regulations made there under in respect of matters precedent to the registration of the said Company and incidental thereto have been complied with; c) I make this solemn declaration conscientiously believing the same to be true.
3.4 Declarant Signature	
3.5 Registration No of authorized intermediary, if applicable	
3.6 Date(dd/mm/yyyy)	24/08/2020

#### ENCLOSURES

- (i) Original paid bank challan evidencing payment of fee;
- (ii) Memorandum of Association;
- (iii) Articles of Association, where applicable;
- (iv) Copies of valid CNIC/NICOP of the subscribers/directors/chief executive officer or copy of Passport in case of a foreigner;
- (v) Copy of valid CNIC/NICOP of Nominee only in case of single member company or copy of Passport in case of a foreigner;
- (vi) Copy of valid CNIC of witness in case of physical filing;
- (vii) NOC/Letter of Intent/ License (if any) of the relevant regulatory authority in case of specialized business;
- (viii) Authority letter for filing of documents for the proposed company on behalf of the subscribers as per requirement of clause (vi) of sub-regulation (2) of regulation 5.
- (ix) Copy of valid CNIC/Passport of person duly authorized by the Board of directors of a body corporate which is a subscriber. Further, along with copy of Board resolution along with and attendance sheet duly authorizing the representative. In case of a subscriber which is a limited liability partnership, copy of valid NIC/ Passport of designated partner empowered to act as such, along with copy of instrument empowering him;
- (x) In case the subscriber is a foreign company or a foreign body corporate, the profile of the company, detail of its directors, their nationality and country of origin, certified copy of its charter, statutes or memorandum and articles etc.
- (xi) In case of foreign subscriber/ officer, an undertaking on stamp paper of requisite value duly signed, notarized and witnessed to the effect that in case name of subscriber/officer is not security cleared by MoI, the subscriber/officer and the company, shall take immediate steps for replacement and shall transfer shares if any, held by the subscriber.

*[Handwritten signature]*

*[Handwritten text]*



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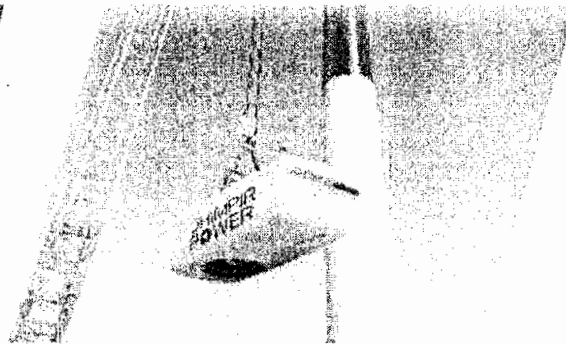
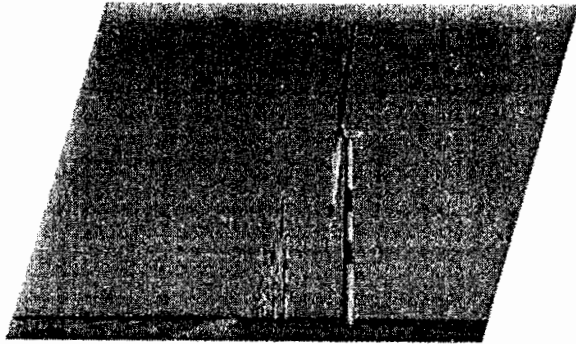


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**Annexure F**  
**Resumes**



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# **BURJ CAPITAL**

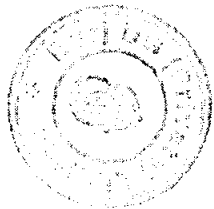
## **RESPONSIBLE POWER**



**BURJ**  
Capital

## VISION & MISSION

*Burj Capital is an investment firm focusing on renewable power development. Meeting the need for cheaper and cleaner power, technologies like wind and solar represent a paradigm shift in how developing markets can source and generate electricity in the future. Given this opportunity, it is our goal to support more widespread uptake of renewable power by leveraging our expertise, experience and partnerships with some of the leading global institutional investors and technology providers to create market leading independent clean power platforms across select markets while delivering attractive stable returns to our investors.*



## EXECUTIVE SUMMARY

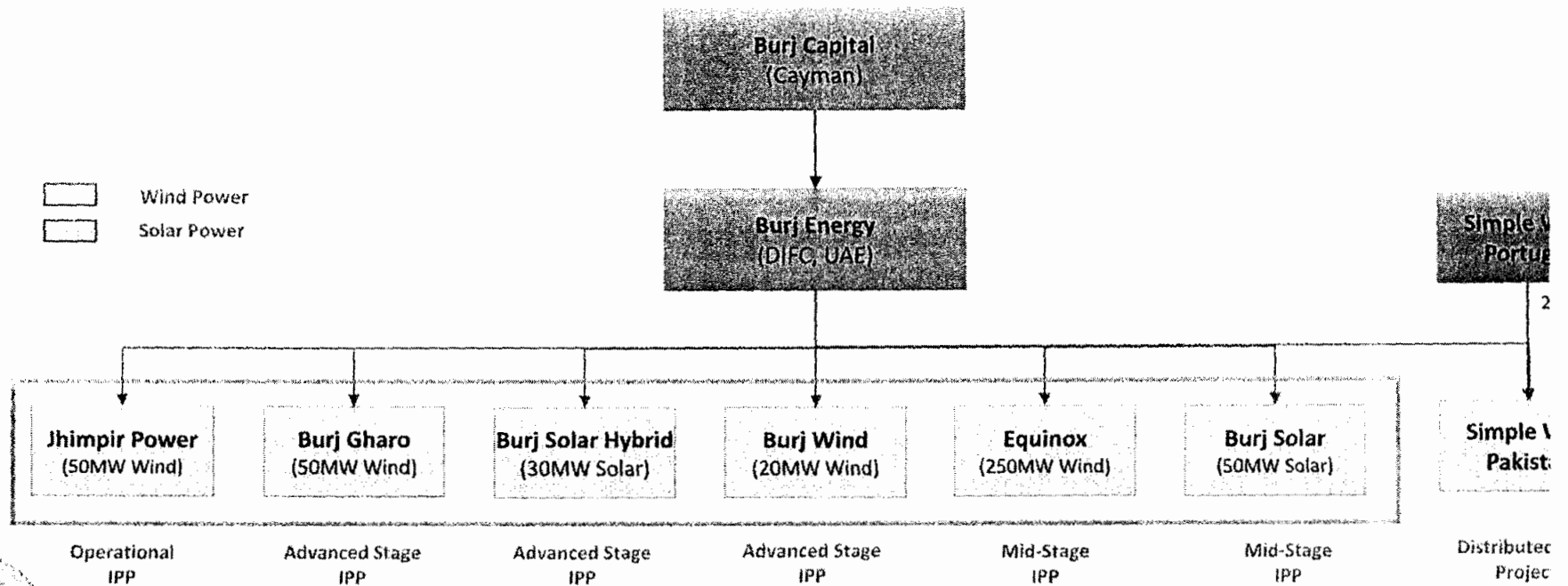
- Burj Capital is a Dubai, UAE based investment firm engaged in renewable power development focusing on both utility scale and distributed strategies. We originate, develop and construct power projects, thereby managing assets end-to-end and in the process ensuring project delivery and delivering attractive returns for our investors and partners. Burj typically targets assets that have potential to offer returns in the range of 15% US
- We focus on select markets within Asia which offer attractive risk-adjusted returns and the potential to scale. Working alongside leading investors, development finance institutions and technology providers, our aim is to gain significant foothold in our chosen markets and create leading platforms to deliver clean power.
- Our first foray has been in Pakistan where we are targeting a platform of 500MW of renewable assets and have already deployed \$130 million. We are the leading independent renewables player in the market with over 450MW of proprietary wind and solar assets under development. A 50MW wind project has achieved Commercial Operations as of March 2018. It carries a 20 year sovereign guaranteed PPA, a 10.44 US cents per kWh and uses GE's 1.7MW turbine platform customized to provide high yields in the Jhimpir-Gharo wind corridor. Burj completed this project with the Private Investment Corporation (OPIC) as the sole debt provider, PowerChina as the EPC contractor and GE as the O&M operator. The Abu Dhabi Government participated as the equity investor.
- Leveraging the strong foothold in Pakistan, Burj aims to replicate its offering in upcoming Asian markets conducive to renewables.
- Aside from utility assets, Burj is also developing a distributed generation business (private power) taking advantage of falling cost of technology for solar and targeting the unmet power and efficiency needs of credible commercial and industrial consumers.
- Burj is led by investment and industry professionals with experience in developing and financing renewable energy assets and supported by a strong engineering and project management team with expertise in the design, construction, and operation of power projects. The team has previously developed platforms targeting over 2.5GW of clean energy deployment across South Asia, Africa, and Latin America in partnership with the likes of Engie, IFC, Finance Corporation and Aditya Birla Group, and have worked alongside leading technology providers and construction companies including GE, Siemens, Nordex, Wartsila, PowerChina, and Harbin.



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## PLATFORM STRUCTURE

Burj is creating a **500MW clean power platform** in Pakistan backed by a proprietary pipeline of assets that have been matured in house. We have : operational asset, 100MW in advance development, and 300MW mid-stage IPP projects. Combined with our distributed solar business, where we do small scale solar projects, we are well on our way to becoming a leading clean power generation company in the country.



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## ASSET PORTFOLIO

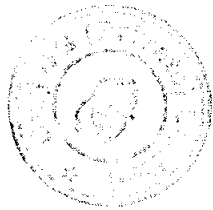
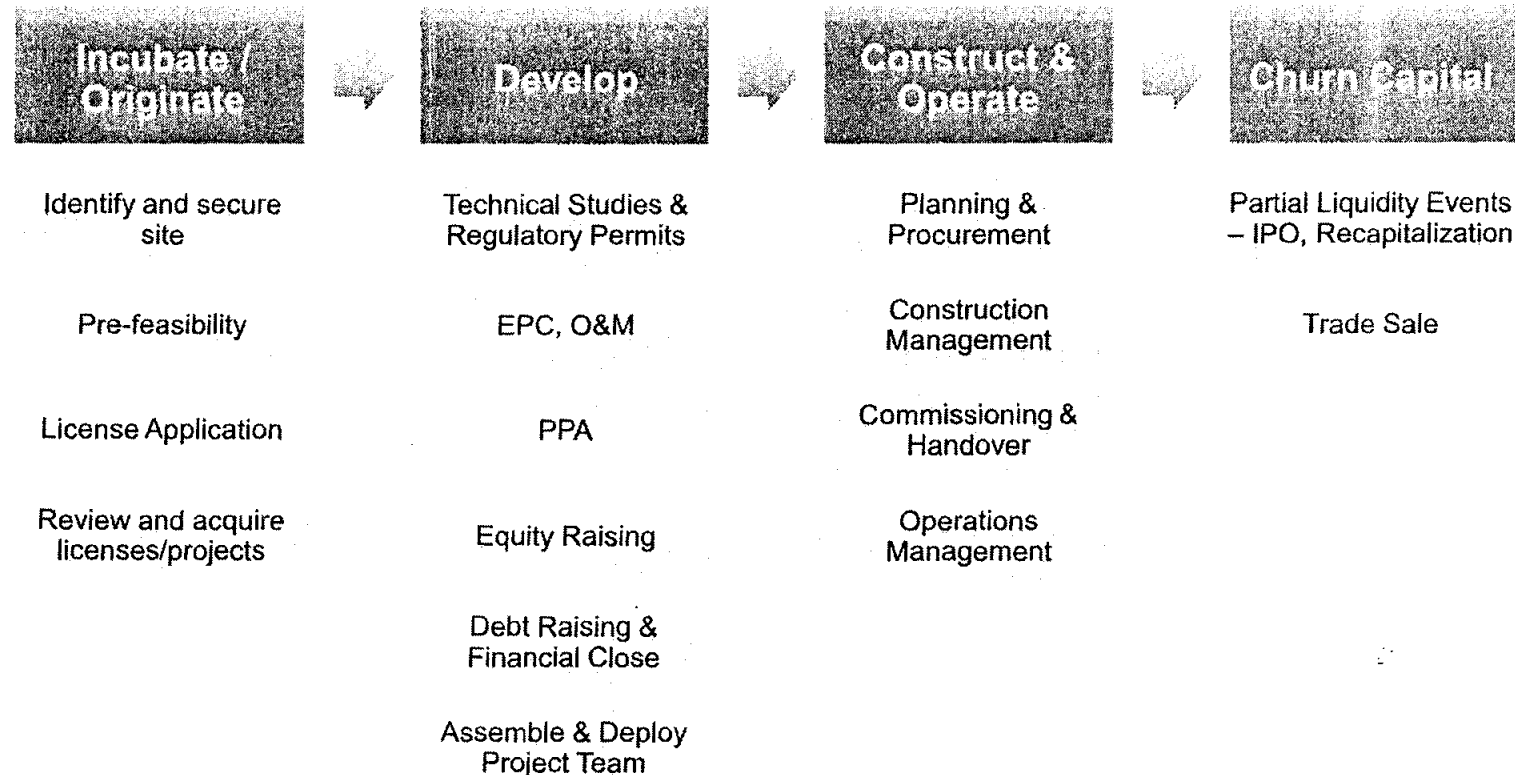
The below pipeline only represents proprietary opportunities. In-house development provides us growth certainty and a runway to our 500MW target follow a phased approach to development, seeking to redeploy returns from completed projects, use resources efficiently and thus deliver superior returns to investors.

PROJECTS	SIZE (MW)	TYPE	STATUS
<b>IPP - Operational</b>			
Jhimpir Power	50	Wind	<ul style="list-style-type: none"> <li>Commercial operations commenced, March 2018</li> <li>Deployed \$130+ million capital into the project</li> <li>High performance asset, <b>first year revenue c.\$23m &amp; EBITDA c. \$15m</b></li> </ul>
<b>IPP - Advanced Stage Development</b>			
Burj Wind Energy	Up to 20	Wind	<ul style="list-style-type: none"> <li>Fully developed, with offtake from national grid</li> <li>Tariff awarded on February 20<sup>th</sup>, 2019. Financial close to be achieved on February 20<sup>th</sup>, 2020.</li> </ul>
Burj Gharo Energy	50	Wind	<ul style="list-style-type: none"> <li>Fully developed, with offtake from K-Electric</li> <li>Processing tariff application</li> </ul>
Burj Power Hybrid	30	PV Solar	<ul style="list-style-type: none"> <li>Licensed, co-located with Jhimpir Power</li> <li>Offtake to national grid already available, fast-track tariff preparation in process</li> </ul>
<b>IPP - Mid Stage Development</b>			
Equinox	250	Wind	<ul style="list-style-type: none"> <li>Mid-stage asset, licensed for 250MW offtake</li> <li>Feasibility in process together with technical assessment</li> </ul>
Burj Solar	2 x 25	PV Solar	<ul style="list-style-type: none"> <li>Mid-stage asset for national grid offtake, being co-develop with Voltalia, a leading French IPP</li> <li>Project land has been locked, proximate to national grid</li> </ul>
<b>Distributed Solar</b>			
Distributed Generation	50	PV Solar	<ul style="list-style-type: none"> <li>10MW projects in development and execution with leading commercial and industrial consumers</li> <li>50MW target by 2020</li> </ul>
<b>Total</b>	<b>500 MW</b>		

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## ABOUT US – CAPABILITIES

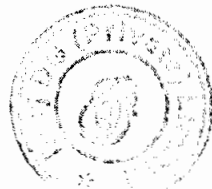
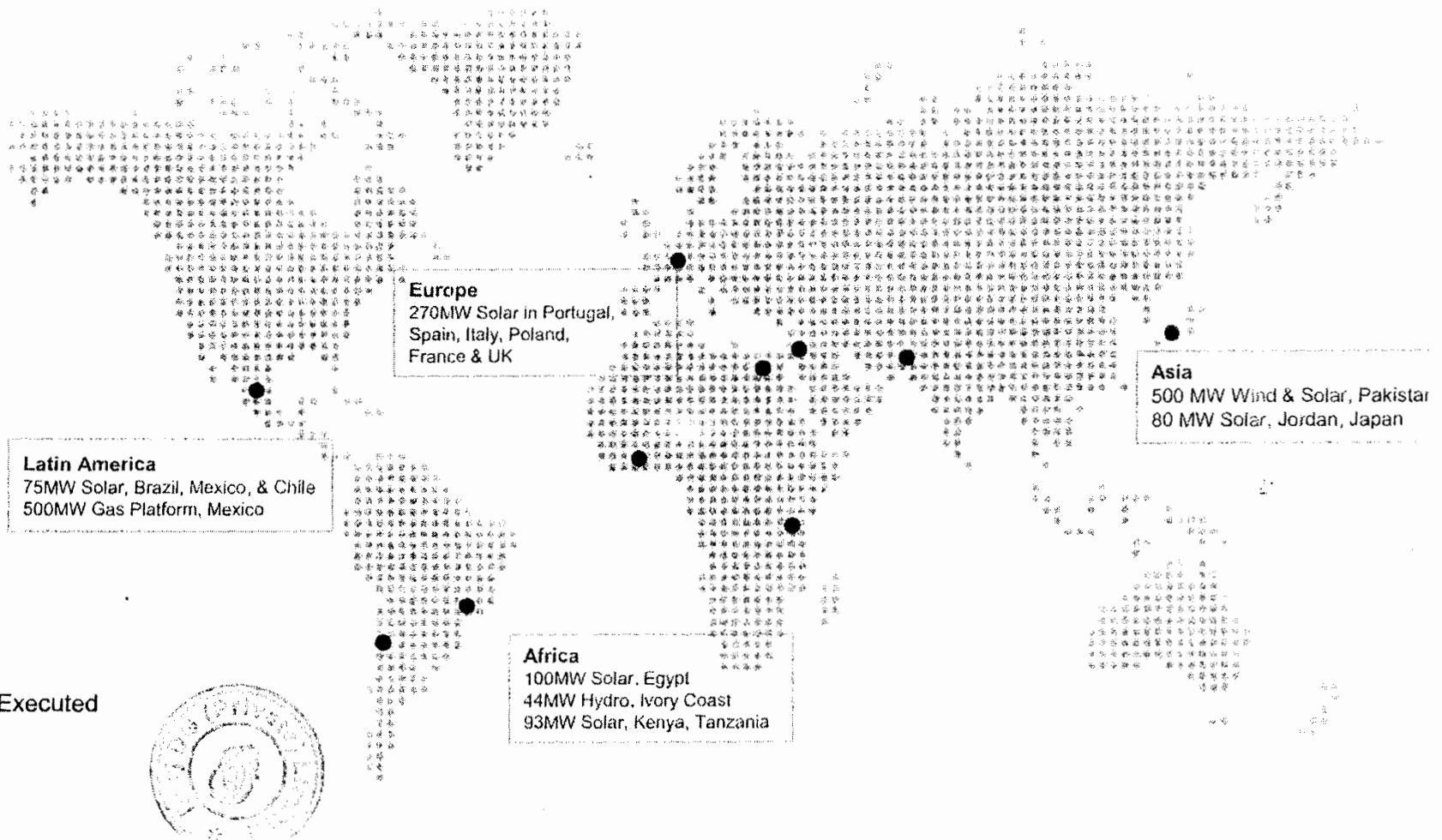
Our investment management orientation and in-house development & technical capabilities are core value creators. Expertise, experience and on-g networks allow us to lock value early on during project development. This value is maintained by closely managing the construction and commissior phases, and as assets stabilize post operations, we are able to create capital churn opportunities



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# MANAGEMENT TRACK RECORD 3GW OF DEALS EXECUTED, IN-DEPTH KNOWLEDGE OF CLEAN ENERGY LA



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## MANAGEMENT TEAM

Burj Capital is led and managed by seasoned Investment professionals based out of Dubai, UAE. Established in 2011, Burj Capital is now a leading Renewable Energy Company in Pakistan. The Group and Management team is led by Saad Zaman, Founder and Group CEO of Burj Capital.

Saad has more than 25 years of experience, he has held leadership positions in organizations like Citibank, where in his last role, he led the Investment Banking Business for the Middle East and Levant. He also served as a Managing Director and Global Islamic Finance Head for Citi. Subsequent to that, he was associated with Dubai Islamic Bank (Government of Dubai) where he served as CEO for the Investment Banking Business and International Operations. He was the founder CEO of DIB Pakistan, he led DIB's international expansion into a number of other regional markets. Saad has held various Board and Advisory positions with leading businesses like Citi, DIB, Etisalat International and DP WORLD Group.



**Saad Zaman**  
Group Chairman & CEO Jhimpir Power  
• 25 years experience  
• President, DIB Pakistan and CEO, DIB Capital, UAE  
• Managing Director, Islamic Banking and Corporate Finance Head Middle East & Levant at Citi



**Omar Masrur**  
Development Lead  
• 20 years experience  
• Energy sector project development, Investment management



**Umar Mirza**  
Investment Lead  
• 14 years experience  
• Private equity, energy sector investment & project development



**Eduardo Pereira**  
Solar Commercial Lead  
• 10 years experience  
• Solar power development & EPC, origination



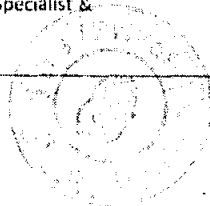
**Aamer Chishti**  
Corporate Finance Lead  
• 20 years experience  
• Energy sector project development, Investment management



**Bilal Azhar, CFA**  
Senior Associate Investments  
• 10 years experience  
• Private Equity, Management Consulting



**Nabeel Malik**  
Senior Advisor, Distributed Solar  
• 25 years experience  
• Consumer Banking Specialist & Technology Innovation



## PROJECT EXECUTION TEAM

Burj has assembled one of the most experienced teams in Pakistan having built over 5 wind projects in Pakistan previously including the first 3 in the Skilled at construction management, design and engineering, the team has delivered Jhimpir Power on budget and on time. The team is also leading monitoring, community liaison and CSR activities. Senior members have worked together for over 8+ years



**Yousaf Malik**  
Project Manager & ESG Lead  
• 10 years experience  
• Project management, engineering, wind and thermal EPC specialist



**Imran Javed**  
Technical Manager  
• 10 years experience  
• Engineering design & construction; wind and nuclear O&M specialist



**Col (R) Imtiaz Khan**  
Project Administration & CSR  
• 20 years experience  
• General administration, Security & Stakeholder Engagement, CSR



**Azam Farooq**  
Finance Manager  
• 10 years experience  
• Accounts, budgeting and financial control



**Sanaulah Memon**  
Plant Administration & Community Liaison  
• 10 years experience  
• Plant administration, community liaison & local government engagement



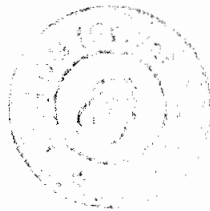
**Shabbir Ahmed**  
Corporate Compliance  
• 20 years experience  
• Corporate affairs and compliance



**Daniyal Aziz**  
Plant Electrical Engineer  
• 5 years experience  
• EPC electrical works, O&M



**M. Babar**  
Plant Electrical Engineer  
• 5 years experience  
• EPC electrical works, O&M



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## DEVELOPMENT TEAM

The team comprises on-ground resources leading the day-to-day affairs of all development projects including leading engagement with regulators, pr consultants, vendors/contractors, and local government bodies. They are supported by an engineering and design team based out of Portugal who w previously part of one of the leading European IPPs. Integration with this team is ongoing at present. This team provides Burj the ability to design, bu operate our distributed solar assets.

### Development Team - Pakistan



**Saleem Zaman**  
CEO  
• 25 years experience  
• Corporate Law, Power, Agri and Real Estate development



**Faisal Iftikhar**  
Project Director  
• 20 years experience  
• Project management, engineering, wind and hydro EPC specialist



**Bilal Saeed**  
Senior Project Manager  
• >5 years experience  
• Solar Development & EPC expertis Pakistan



**Tulsi Das**  
Development Engineer  
• >5 years experience  
• Independent engineering & wind development services



**Ali Raza**  
Asst. Development Engineer  
• >1 years experience  
• Electrical engineering

### Design & Development Team - Portugal



**Marco Alves**  
Solar Technical & Commercial Lead  
• 17 years experience  
• Project management, solar EPC and O&M specialist



**Nuno Lameiras**  
Solar Operations & Engineering  
• >10 years experience  
• Solar development and operations specialist



**Ivo Mota**  
Solar Contracting & Technical Solutior  
• >5 years experience  
• Plant design and commercial solut



**Bruno Rodrigues**  
Solar Grid & Systems Integration  
• >5 years experience  
• Plant construction & engineering



**Miguel Saramago**  
Financial Management  
• >10 years experience  
• Project development & financial management



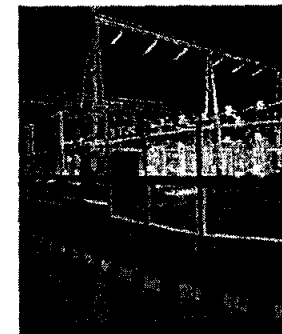
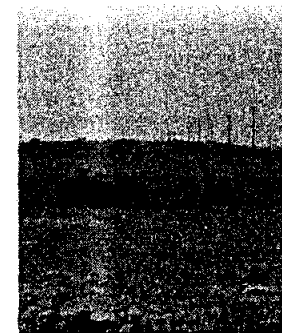
**Jaime Lima**  
Storage & Hybrid Systems  
• >5 years experience  
• Solar engineering and design

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## JHIMPIR POWER

Project has achieved Commercial Operations as of March 2018. It carries a 20 year sovereign guaranteed PPA, a 10.44 US cents feed-in tariff and a 1.7MW turbine platform customized to provide high yields in the Jhimpir-Gharo wind corridor. Burj completed this project with the Overseas Private Investment Corporation (OPIC) as the sole debt provider, PowerChina as the EPC contractor and GE as the O&M operator.

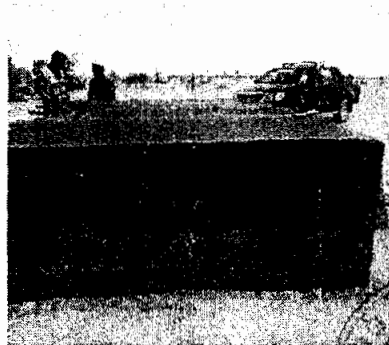
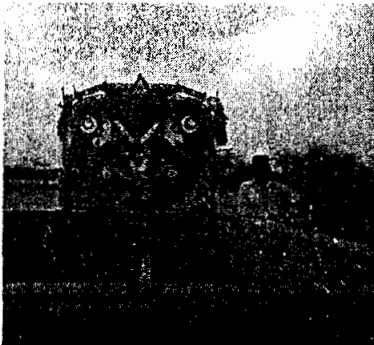
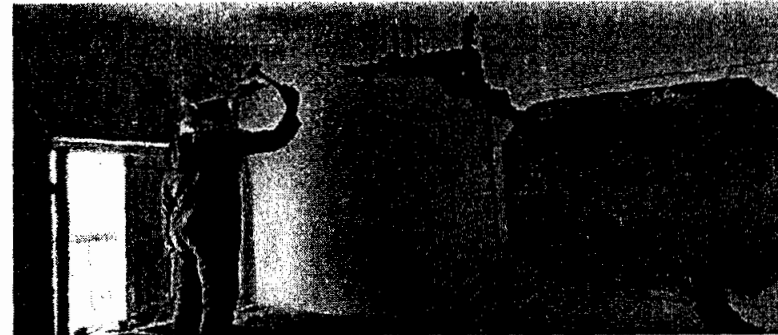
Performance Metrics	
COD	Mar 16 <sup>th</sup> , 2018
Availability to date	97.5%
Capacity Factor to date	43.6%
Avg Wind Speed	7 m/s
Net Energy Delivered since COD	161 GWh
Unproduced Energy (Curtailment/Grid Outage)	10 GWh
Aux Consumption + Losses	4 GWh



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## ENVIRONMENTAL & SOCIAL PERFORMANCE (BASED ON IFC PS)

Active support for local community uplift instituted. Focus is on priority hiring by EPC (over 100 people employed), water supply and educational facilities adjoining villages. Initiatives are pursuant to a local community survey and a community development plan developed together with OPIC. Ongoing engagement with non-profits as well as other projects in vicinity for developing long term CSR programs



We have constructed water tanks at 5 adjoining villages. Water was either carried across by women/children or sourced from the ground. Villages receive 24k liters water/month

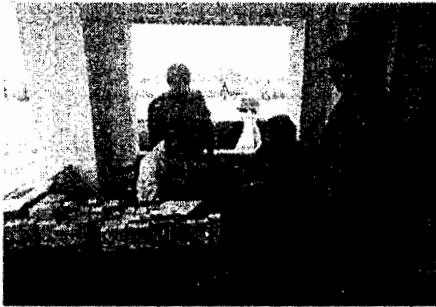
2 non-operational schools refurbished. We have hired teachers; distributed books, uniforms; & installed solar panels for power. Attendance is encouraged via stakeholder workshops



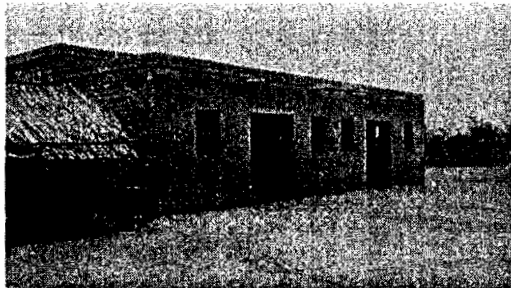
## ENVIRONMENTAL & SOCIAL PERFORMANCE (BASED ON IFC PS)

We have instituted vocational education at one of the schools and distributed sewing machines amongst locals. We have refurbished the local mosque community request and put up a soccer field for entertainment. We have also provided solar lighting and are teaching locals about home/village clean We also sponsor medical camps for locals and school children

Medical Camps



Village/Home Improvement



Vocational Training & Others



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In considering any performance data contained herein, each recipient of this document should bear in mind that historic returns, projected returns or financial market scenarios are no reliable indicator for current or future performance and that past performance is not indicative of future results. There can be no assurance that any future assets managed or sponsored by Burj will achieve comparable results or be able to avoid losses.

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of disposition, any related transaction costs and the timing and manner of sale, all of which may differ from the assumptions on which the information contained herein is based, actual events or results may materially differ from those reflected or contemplated in such forward looking statements.

Any projected returns reflected herein have been prepared based on various estimations and assumptions made by Burj, including estimations and assumptions about events that have not occurred, any of which may prove to be incorrect. Due to various risks, uncertainties and changes (including changes in economic, operational, political or other circumstances) beyond the control of Burj, the actual results of the referenced investments could differ materially from the results expressed or implied by the projected returns reflected herein in respect of such investments. Industry experts may disagree with the estimations and assumptions used in preparing the projected returns. No assurance, representation or warranty is made by any person that any of the projected returns are accurate or will be achieved, nor in respect of any other information in this document, and you should not place undue reliance on the projected returns nor any other information in this document. Additional information about the estimations and assumptions used in preparing the projected returns and the factors that could cause actual results to differ materially from the projected returns is available upon request.

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This material is intended for Professional Clients only.

## CONTACT I

BURJ ENERGY INTL  
MANAGEMENT LI

Dubai International  
Liberty House, Off  
PO Box 482085  
Dubai, United Ara

Tel: +971 4 88687



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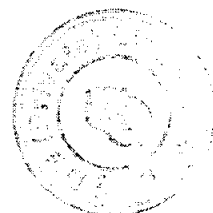
Annexure H

### List of Equipment

Sr. #	Equipment	Brand	Specifications & Scope	Quantity
1	Solar Panels	Jinko Solar/Equivalent	Model: JKM-535M-72HL4-V Rating: 535W Type: Mono Perc Half cut	469Nos.
2.1	Inverters	Huawei	Model: SUN2000-60KTL-M0 Rating: 60KW Type: Grid Tied	3No.
2.2	Inverters	Huawei	Model: SUN2000-40KTL Rating: 40KW Type: Grid Tied	1No.
2.3	Inverters	Huawei	Model: SUN2000-30KTL Rating: 33KW Type: Grid Tied	1No.
3.1	Mounting Structure	Local	1PV Portrait Aluminum, Tilt 10-degree Wind Bearing Capacity: 35m/s SS Bolts for panels and joints: Y Water Proofing to be ensured: Y	138.6kWp
3.2	Mounting Structure	Local	2x60, 3x15 PV Portrait Parking Shed Structure Wind speed = 35m/s, Tilt = 5 degrees, Height = 8 feet SS Bolts for panels and joints: Y	112.35kWp
4.1	Cable Trays	Local	HDG 16-Gauge 2"*2" 16 Gauge, DC SS Bolts for covers and clamps and joint plates	1 Job
4.2	Cable Trays	Local	HDG 16-Gauge 3"*2" 16 Gauge, DC/ AC SS Bolts for covers and clamps and joint plates	1 Job
5	AC Breaker Box	Local	AC Breaker Box Powder Coated Type IP65 Gauge: 16	4No.
6.1	AC Cables for Inverters	FAST/Pakistan Cables/ Newage/ Equivalent	4 core AC Cable 10/16mm <sup>2</sup> 0.6/1kV Cu/PVC/PVC, Rated temperature 70 degree	1 Job
6.2	AC Cables for Inverters	FAST/Pakistan Cables/ Newage/ Equivalent	4 core AC Cable 25/35mm <sup>2</sup> 0.6/1kV Cu/PVC/PVC, Rated temperature 70 degree	1 Job
7	Earthing Cables for PV Panels and Structure	FAST/Pakistan Cables/ Newage/ Equivalent	Wire Size for 1. Panel to Panel & Structure: 6mm <sup>2</sup> 2. Panel to Structure: 6mm <sup>2</sup> 3. Structure to Earth Mesh: 16mm <sup>2</sup> PVC Flexible 4. Earth Mesh to Pit: 16mm <sup>2</sup> Bare Conductor Cu	1 Job
8	Earthing Cables for Inverters	FAST/Pakistan Cables/ Newage/ Equivalent	Size: 25mm <sup>2</sup> , 450/750V Cu/PVC flexible cable yellow/green color	1 Job

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9	DC Cables	FAST/Pakistan Cables/ Newage/ Equivalent	Size: 4mm <sup>2</sup> , flexible, single core cable rated & tested at 1500VDC (Cu/XLPO/XLPO)	1 Job
10.1	AC Circuit Breakers for Inverters	ABB/Schneider/ Terasaki/Equivalent	Rating: 125A 4 Pole Model: MCCB 125A 4 pole	3No.
10.2	AC Circuit Breakers for Inverters	ABB/Schneider/ Terasaki/Equivalent	Rating: 80A 4 Pole Model: MCCB 80A 4 pole	1No.
10.3	AC Circuit Breakers for Inverters	ABB/Schneider/ Terasaki/Equivalent	Rating: 60A 4 Pole Model: MCCB 60A 4 pole	1No.
11	AC SPD	Citel/Eaton/Chint/ Dehn/ Equivalent	Model: DGM TNS 275FM Rating: 40kA, Isn: 20kA Type: Type 2	5No.
12	Solar Installation Accessories	Local		1 Job
13	Earthing Accessories	Local	Earthing rods: 3048mm*19mm	1 Job
			Earthing Rod Clamp	
			Earthing Bags	
			Bus Bar 6 Holes with Insulator	
			Earth Bores (80 feet Depth)	
13.1	Earthing Conductor for DC&AC&LAR	FAST/Pakistan Cables/ Newage/ Equivalent	16 sqmm bare Cu Conductor	1 Job
14	Lightning Arrestor Rod	Local	-	2
15	Power Sensor	Huawei	Model: DTSU666-H 250A/50mA (Three Phase)	4No.
16	Data Logger	Huawei	Model: SmartLogger 3000A	2No.
17.1	Weather Station	Rainwise	PVmet200	1No.
17.2	Weather Station	Rainwise	PVmet150	1No.



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## Annexure L

FEASIBILITY STUDY FOR ROOFTOP SOLAR INSTALLATION AT  
MARRIOTT HOTEL ISLAMABAD  
Burj DG Private Limited



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## EXECUTIVE SUMMARY

The feasibility study examines the costs, practicality, and likely outcome of a solar photovoltaic (PV) installation on the rooftop of Marriot Hotel Islamabad.

The main outcomes of the feasibility report are given below:

**Technical Site Analysis:** The project site is suitable for a solar PV energy system. For the purpose of estimation of power generation potential, solar specific production is assumed to be "good" (1475 kWh/kWp/year). As the project is distributed every rooftop is optimized at different azimuth (32 degree), panel tilt (10 degrees) and satisfactory roof condition and structure are also assumed.

**Anticipated System Information:** The project will accommodate a 250kWp solar PV system with a projected annual production of 0.370 GWh/year. Use of Jinko Solar JKM535M-7TL4-V 535W Mono Perc half Cut PV panels as a basis for design will result in an acceptable system weight density of 3-5 lbs/sq ft. The system will offset approximately 0.058 tons of carbon dioxide annually.

**Financial Analysis:** The project will be financed on a 100% equity model. The total estimated project cost is \$155,000.

Based on the technical and financial analysis, the installation of a 250 kWp Solar PV System on the rooftop of Marriot Hotel Islamabad is deemed to be feasible.



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Energy Yield Estimation .....	10
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Safety and Emergency Plans .....	11
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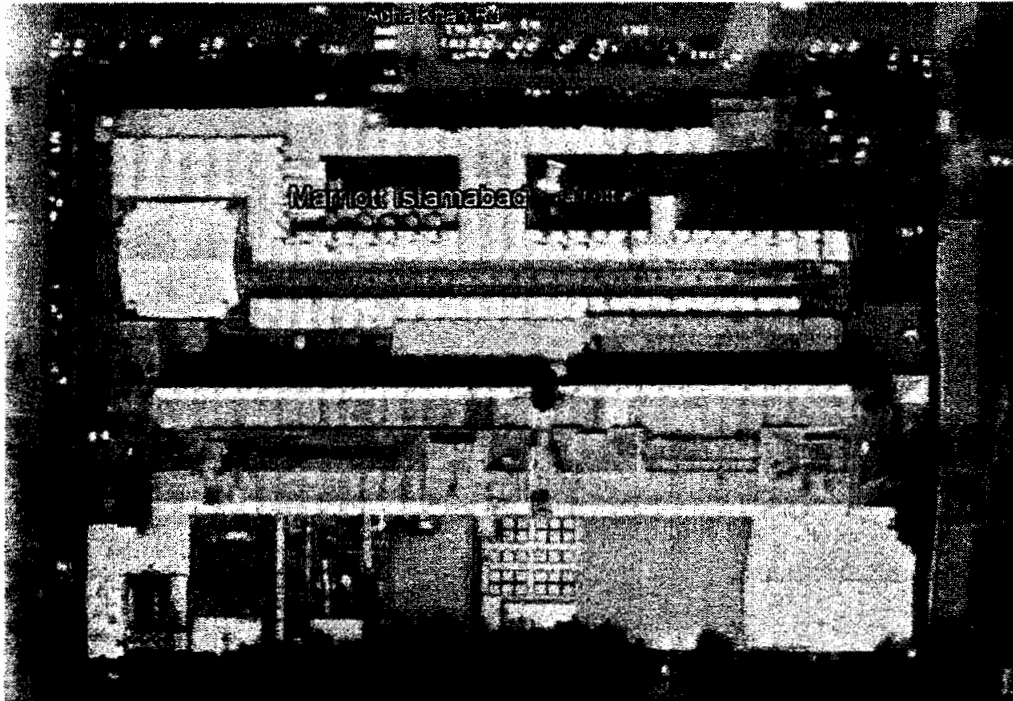


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## Introduction

The project site is the rooftop of Marriot Hotel Islamabad. The hotel is one of the many hotels managed by the Hashwani Group in Pakistan. The exact coordinates of the project site are: 33.73"N 73.08"E East A bird's eye view of the project site is given in the figure below:

Figure1. Overview of Project Site



## Technical Analysis

### Site Conditions

The following tasks were carried out:

- Global Horizontal Irradiation, annual and inter-annual variation was assessed.
- Near shading objects were taken into account for placement of PV modules.



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- Area required for selected module technology was calculated. Keeping in view available area and minimum inter row shading, tilt angle and appropriate spacing was calculated from near shading objects.

Details of the finalized parameters are given below:

#### Technology Review and Selection

##### Technology Selection

1	Type of Module	JKM535M-7TL4-V
2	Type of Cell	Monocrystalline PERC
3	Dimensions of each module	2274*1134*35 mm
4	Weight	28.9 Kg
5	No of Modules	468
6	Total Land Area Used	Roof Top
7	Module Frame Anodized	Aluminium alloy
8	Nominal Max. Power (Pmax)	535W
9	Opt. Operating Voltage (Vmp)	40.63V
10	Opt. Operating Current (Imp)	13.17A
11	Open Circuit Voltage (Voc)	49.34V
12	Short Circuit Current (ISC)	13.79A
13	Module Efficiency	20.75%
14	Operating Temperature	-40°C — +85°C
15	Max. System Voltage	1000V/1500V DC IEC
16	Module Fire Performance	CLASS C (IEC 61730)

S. No	Specification of Strings	Data
1	No of Strings	25
2	Modules in Strings	12-18

##### PV Capacity

S. No	Specification	Data
1	Total Site	250 kWp
2	Net Capacity Factor	16.86%

##### Inverters

S. No	Specification	Data	
1	Manufacturer	Huawei	Huawei
2	Capacity of each Unit	33/36KW	100 KW
3	No of Inverters	2/1	1
4	MPPT Input Voltage Range	200 V to 1000 V	200 V to 1000 V
5	Rated Input Voltage	600 V	600 V
6	Max Input Voltage	1100 V	1100 V
7	Total Power	36/60 KW	100 KW
8	Max Input Current for Each MPPT	22A/22A	26A
9	Max Output Current	30 A	40 A
10	Output Electrical System	3 Phase AC	3 Phase AC



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11	AC Nominal Voltage	230/400 V	230/400 V
12	Rated Power Frequency	50 Hz	50 Hz
13	Efficiency	98.70%	98.80%
14	Relative Humidity (Non-Condensing)	100%	100%
15	Weight	43/74KG	90KG
16	Degree of Protection	IP66/65	IP66

#### Junction Boxes

S. No	Specification	Data
1	Number of J/Box units	2
2	Input circuits in each box	2
3	Max. input current for each circuit	20A
4	Protection Level	IP 54
5	Over current protection	Fuse
6	Surge protection	1000V

#### PV Mounting Structure

S. No	Specification	Data
1	Structure	Hot Dip Galvanized Steel
2	Tilt of Array Frame	10°

#### Foundation Pillars

S. No	Specification	Data
1	Foundation Structure	Reinforced Concrete Where Required

#### Data Collecting System

S. No	Specification	Data
1	System Data	Continuous on-line logging and monitoring over web portal
2	Weather Station	Collecting actual Weather Data for PR calculation

#### Solar PV Yield Estimation and Simulation of Model Site

The aim of yield estimation is to predict the average annual energy output of the site. Helioscope Software is used for simulation and near shading analysis.

Model and Operation: No Export to Grid



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The solar system will have export control device to make sure that PV power generated by the inverters is on par with power consumption of the site load. A device will measure load at injection point and the limit power of inverters by changing register values. AC output is implemented in reference to energy flow at grid connection point which will reduce inverter AC output of the inverter if site load will be less than the solar production

#### Plant Characteristics

Generation Voltage: 230/400 V three phase four wire system

Power Factor at rated power: 1

Frequency: 50 Hz

Generation characteristic: Inverter has built-in features of controllable active power ramp following grid disturbance or normal connection, voltage regulation and frequency response. There are no additional control metering and instrumentations.

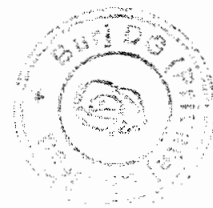
#### Design Parameters

The following tasks were carried out for PV layout and shading.

- Assessment of shading (horizon and nearby building)
- Outline layout of area suitable for PV development
- Designing row spacing to reduce inter-row shading and associated shading losses.
- Designing the layout to minimize cable runs and associated electrical losses
- Creating access routes and sufficient space to allow movement for maintenance purposes
- Choosing a tilt angle that optimizes the annual energy yield according to the latitude of the site and the annual distribution of solar resource
- Module cleaning strategy
- Simulating the annual energy losses associated with various configurations of tilt angle, orientation and row spacing. The optimized configuration and simulation results are given in section "Energy Yield Prediction"
- PV layouts of the site are given in 3D and 2D view in the following section.

#### Layout

Figure 2: 3D Layout of rooftop of Marriott Islamabad



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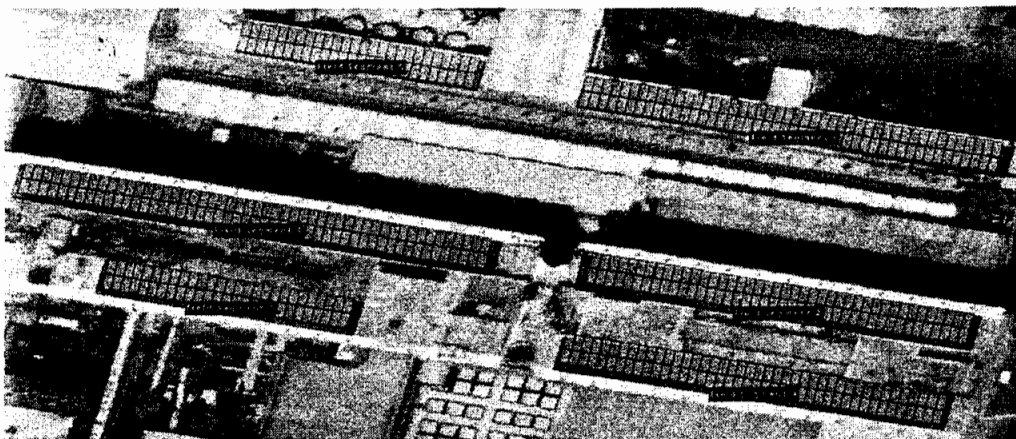
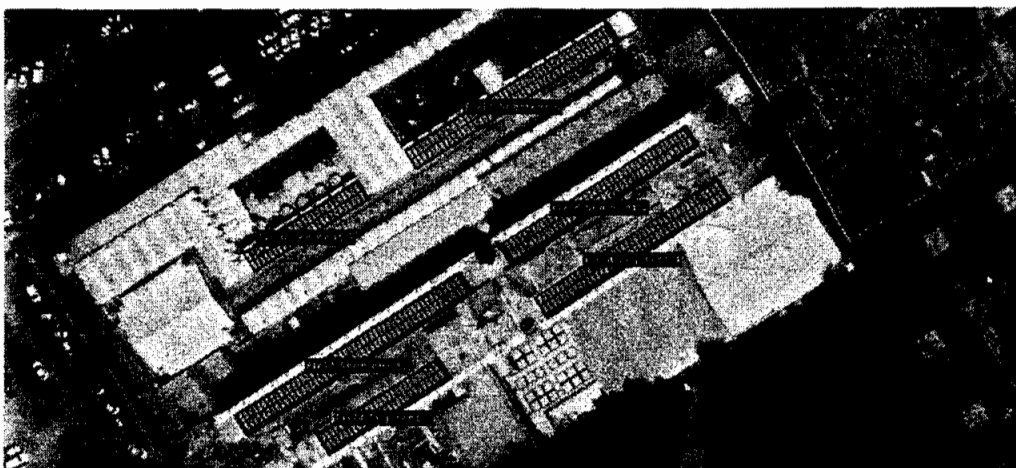


Figure 3: 2D Layout of rooftop of Marriot Hotel Islamabad showing solar panel locations



### Electrical Design

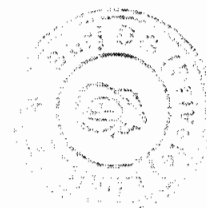
The electrical system comprises the following components:

- Array(s) of PV modules
- DC/AC cabling (module, string and main cable)
- DC connectors (plugs and sockets)
- Junction boxes and combiners
- Disconnects/switches
- Protection devices e.g. fuses, surge protective devices, breakers
- Energy Metering
- Earthing

The single line diagrams of DC and AC sides are given below. The single line diagram includes the protection devices that will be used for safe and smooth operation of the system.

Protections DC Side: String Fuses, Surge Protective Device and DC Disconnect Switches Protections

AC Side: MCBs, Main Breaker



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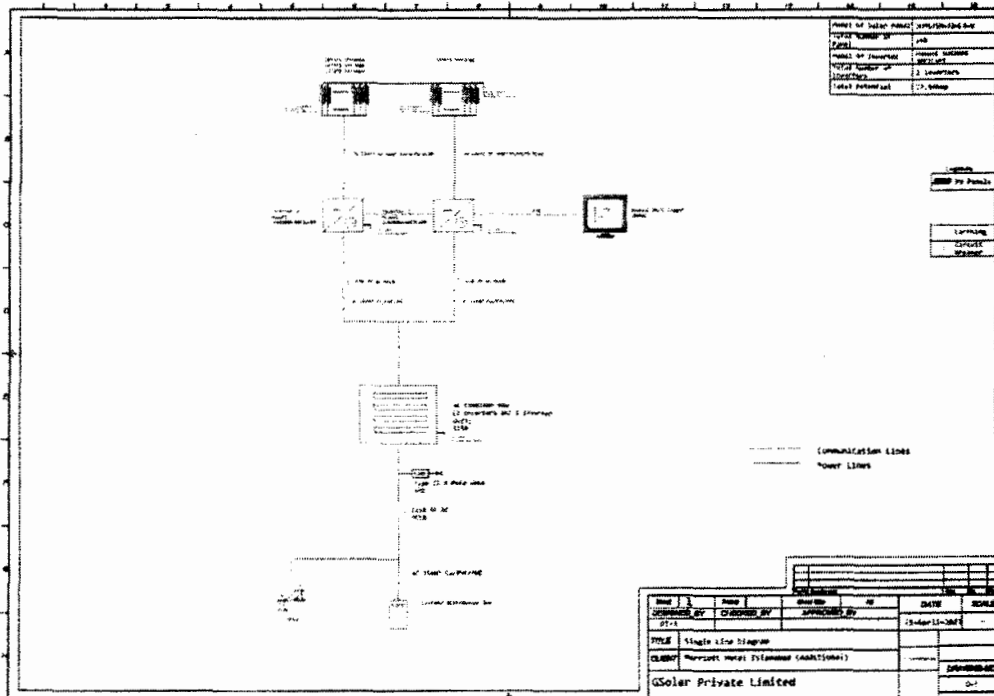
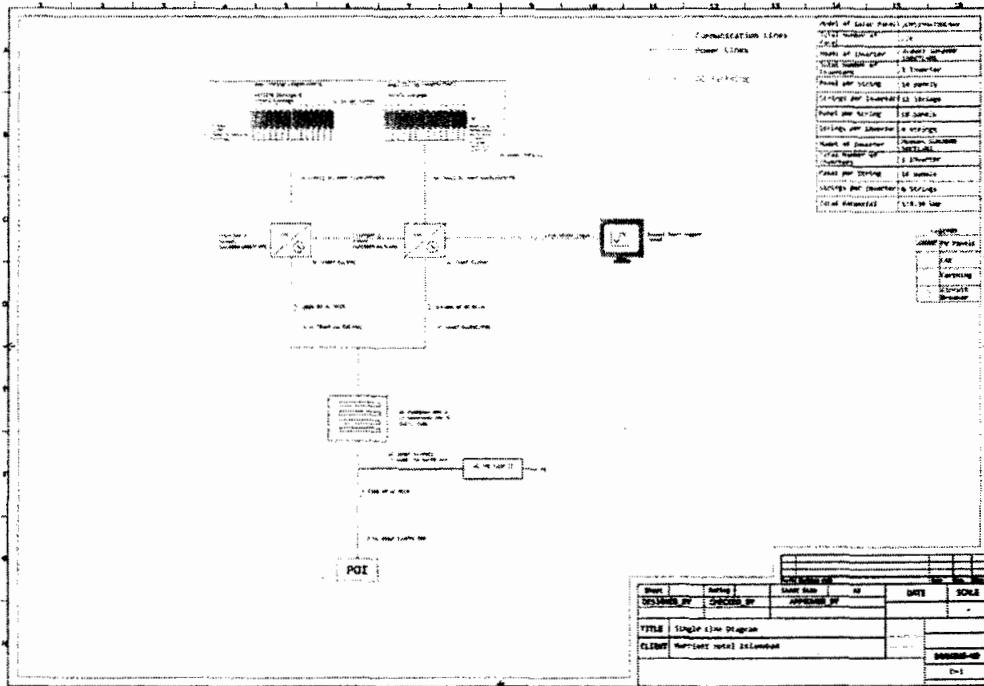


Figure 4: SLD



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### Energy Yield Estimation

The energy yield prediction provides the basis for calculating project revenues. The aim is to predict the average annual energy output for the lifetime of the proposed power plant.

To estimate accurately the energy produced from a PV power plant, information is needed on the solar resource and temperature conditions of the site. Also required are the layout and technical specifications of the plant components.

A number of solar energy yield prediction software packages are available in the market. These packages use time step simulation to model the performance of a project over the course of a year. Helioscope software has been used for energy yield prediction for this site and its results are given below.

Detailed Simulation Report is attached at end of this annexure.



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## Financial Analysis

Cost/watt: USD 0.62

Total Project Cost for 250 kWp Solar PV System: USD 155,000

Equity: 100%

Debt: 0%

## Safety and Emergency Plans

- Only qualified and authorized electricians will be allowed to undertake servicing or maintenance tasks.
- The authorized personnel will wear appropriate equipment, including a safety harness to restrain from falling off the roof, sturdy shoes that will have thick rubber soles to provide electrical insulation and good grip and appropriate clothing for personal protection, including a hat, sunglasses, gloves and long pants and sleeves
- Lock out and tag out procedures will be used before commencement of maintenance tasks.
- On-going operation and maintenance concerns for solar power systems will be addressed properly. These systems are exposed to outdoor weather conditions that enhance the aging process, and the infrastructure needs to be in place for the on-going maintenance of these systems to assure their safe operation.
- Properly grounded or double insulated power tools will be used for maintenance tasks. Tools will be maintained in good condition.
- Working on electrical equipment and circuits will be carried out in de energized state.
- Proper pathways will be available for operation, maintenance and firefighting.
- Fire protection and suppression will be placed at site

## Training and Capacity Development

Trained and qualified personnel will be available at site 24/7 with proper safety and firefighting training. Training program will focus on but not limited to Solar Resource Assessment, Site Survey, Technology, Engineering Design, Regulation, Policy, Metering & Billing, and Project Management of Rooftop Solar System. The following components will include in training and development program.

- a) Collection of Resource Data
- b) Variability and uncertainty of resource data
- c) Site evaluation
- d) Crystalline and Thin film technology comparison
- e) Rooftop solar system components
- f) Module mounting structure selection
- g) Inverter selection
- h) Design of PV Array
- i) Shadow Analysis
- j) DC cable sizing
- k) DC cable layout
- l) Protection and Metering
- m) Installation and testing standards for solar PV plants
- n) Solar Module testing standards
- o) Economy of Roof top Solar System
- p) Detailed Project Report
- q) Operation and maintenance of rooftop solar system
- r) Safety and fire-fighting training



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## Environmental Aspects

Every energy generation and transmission method affect the environment. Conventional generating options can damage air, climate, water, land and wildlife, landscape as well as raise the levels of harmful radiation. PV technology is substantially safer offering a solution to many environmental and social problems associated with fossil and nuclear fuels. Solar PV energy technology provides obvious environmental advantages in comparison to the conventional energy sources thus contributing to the sustainable development of human activities. Not counting the depletion of the exhausted natural resources, their main advantage is related to the reduced CO<sub>2</sub> emissions and normally absence of any air emissions or waste products during their operation.

The use of solar power has additional positive implications such as:

- Reduction of the emissions of the greenhouse gases (mainly CO<sub>2</sub>, NO<sub>x</sub>) and prevention of toxic gas emissions (SO<sub>2</sub>, particulates)
- Reduction of the required transmission lines of the electricity grids

## Socio-Economic Aspects

In regard to the socio-economic viewpoint, the benefits of exploitation of solar PV system comprise of:

- Increase of the regional/national energy independency
- Provision of significant work opportunities
- Diversification and security of energy supply
- Support of the deregulation of energy markets

## Conclusion

This feasibility study is conducted to ascertain the technical feasibility and commercial viability of installation of 250 kWp rooftop PV system installation at Marriot Hotel Islamabad. Installation of the PV system will result in annual power generation of 0.37 GWh. The results of the financial analysis indicate that the project is feasible. Based on the outcomes of both the technical and financial analysis, the project is deemed to be viable.



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### Design 1 Marriott Islamabad, Marriott Islamabad

#### Report

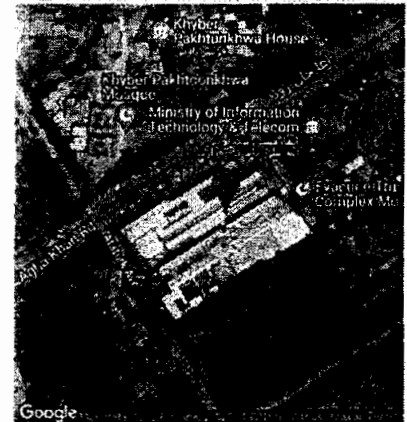
Project Name: Marriott Islamabad  
Project Address: Marriott Islamabad  
Prepared By: Syed Azhar  
bilal.azhar@burjcap.com



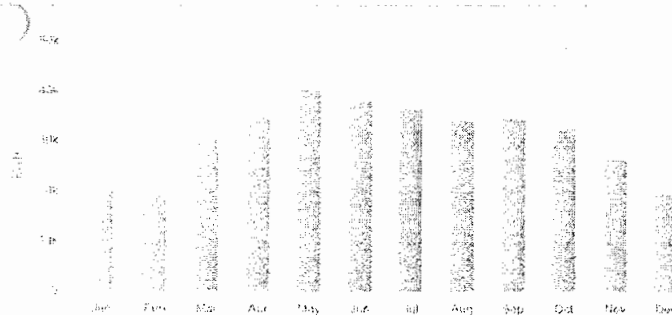
#### System Metrics

Design	Design 1
Module DC Nameplate	250.4 kW
Inverter AC Nameplate	202.0 kW
	Load Ratio: 1.24
Annual Production	369.5 MWh
Performance Ratio	80.7%
kWh/kWp	1,475.8
Weather Dataset	TMY, 10km Grid, meteornorm (meteornorm)
Simulator Version	1e9cd774f-254d9fa384-03bdh03a88-71b9b7d496

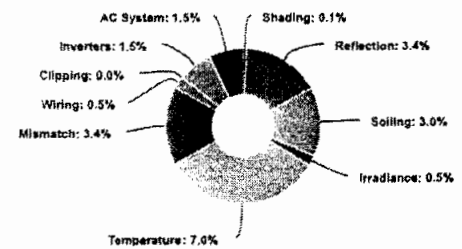
#### Project Location



#### Monthly Production



#### Sources of System Loss



#### Annual Production

	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	1,720.8	
	POA Irradiance	1,828.2	6.2%
	Shaded Irradiance	1,825.7	-0.1%
	Irradiance after Reflection	1,762.9	-3.4%
	Irradiance after Soiling	1,710.0	-3.0%
Energy (kWh)	<b>Total Collector Irradiance</b>	<b>1,710.0</b>	<b>0.0%</b>
	Nameplate	428,256.2	
	Output at Irradiance Levels	426,323.2	-0.5%
	Output at Cell Temperature Derate	396,485.2	-7.0%
	Output After Mismatch	382,909.4	-3.4%
	Optimal DC Output	380,887.1	-0.5%
	Constrained DC Output	380,844.3	0.0%
	Inverter Output	375,141.1	-1.5%
	<b>Energy to Grid</b>	<b>369,514.0</b>	<b>-1.5%</b>
Temperature Metrics	Avg. Operating Ambient Temp	25.1 °C	
	Avg. Operating Cell Temp	36.2 °C	
Simulation Metrics	Operating Hours	4558	
	Solved Hours	4558	





### Condition Set

Description	Condition Set 1											
Weather Dataset	TMY, 10km Grid, meteororm (meteororm)											
Site Angle Location	Meteo 1 lat/long											
Transposition Model	Perez Model											
Temperature Model	Diffusion Model											
Temperature Model Parameters	Rack Type	U <sub>front</sub>			U <sub>wind</sub>							
	Fixed Tilt	24			0							
	Flush Mount	15			0							
	East-West	29			0							
Soiling (%)	Carport	29			0							
	J	F	M	A	M	J	J	A	S	D	N	D
	3	3	3	3	3	3	3	3	3	3	3	3
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	-2.5% to 2.5%											
AC System Derate	1.50%											

Module Characterizations	Module	Uploaded By	Characterization
	JKM535M-7TL4-V (linko)	Folsom Labs	Spec Sheet Characterization, PAN
Component Characterizations	Device	Uploaded By	Characterization

### Components

Component	Name	Count
Inverters	SUN2000-100KTL-M1 (380/400) (Huawei)	1 (100.0 kW)
Inverters	SUN2000-30KTL-M3 (Huawei)	2 (66.0 kW)
Inverters	SUN2000-36KTL-M3 (Huawei)	1 (36.0 kW)
Strings	4 mm2 (Copper)	25 (1,643.5 m)
Module	linko, JKM535M-7TL4-V (535W)	458 (250.4 kW)

### Wiring Zones

Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone 1	-	6-20	Along Racking
Wiring Zone 2	-	6-20	Along Racking
Wiring Zone 3	-	6-20	Along Racking

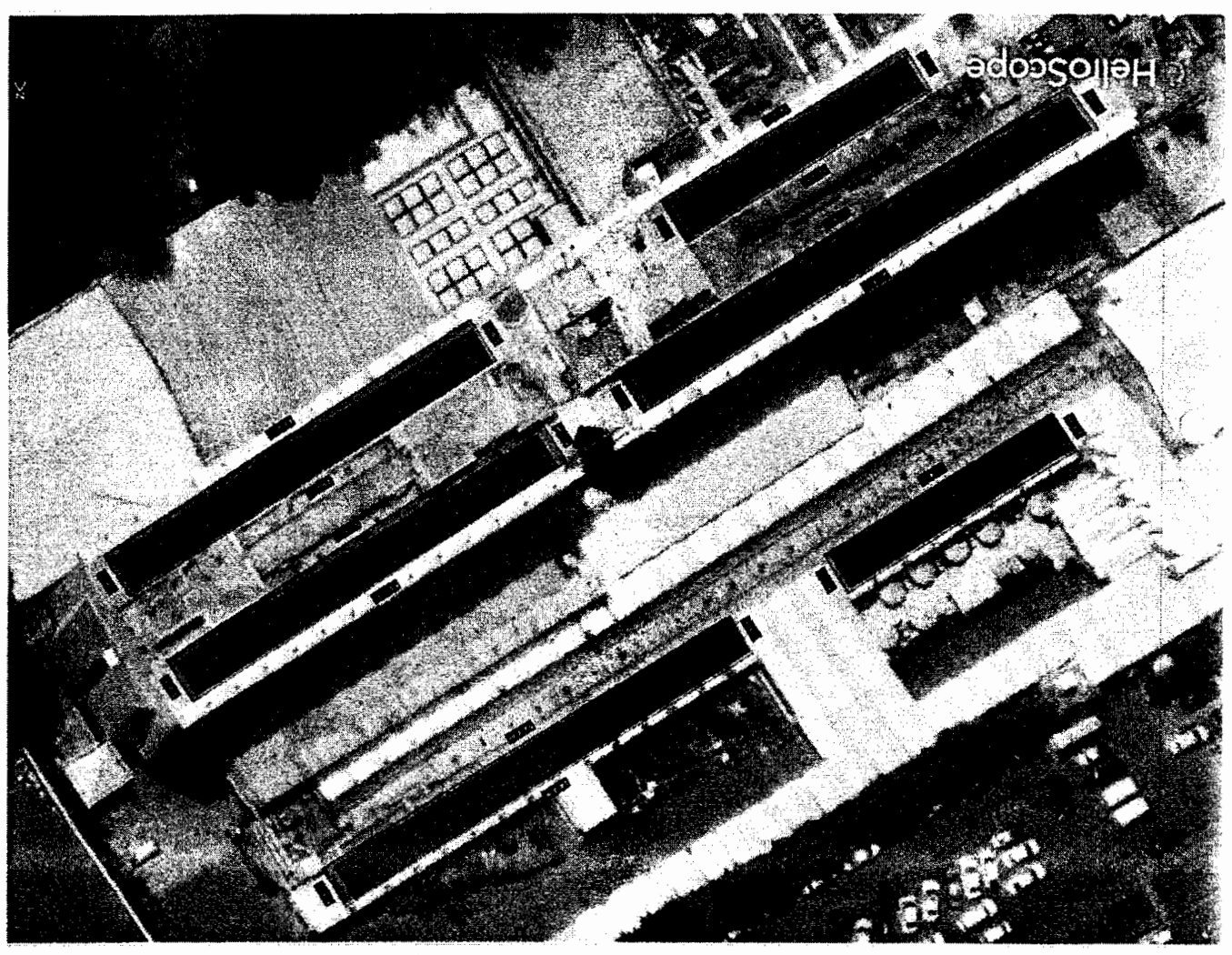
### Field Segments

Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Pov
Field Segment 1	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	51	102	54.1
Field Segment 2	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	42	84	44.1
Field Segment 3	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	27	54	28.1
Field Segment 4	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	42	84	44.1
Field Segment 5	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	26	52	27.1
Field Segment 6	Fixed Tilt	Portrait (Vertical)	10°	147.75829°	0.0 m	2x1	47	92	49.1



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● Detailed Layout

**Annexure M**  
**Contractors' Profile**



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## GSOLAR COMPANY PROFILE

February 2020

[www.gsolar.pk](http://www.gsolar.pk)  
[www.vitol.com](http://www.vitol.com)  
[www.belectric.com](http://www.belectric.com)



3/11/20

# GSolar Overview

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years of experience



150+ employees

GSolar is Pakistan's largest fully integrated solar company offering services across the complete value chain.

Headquartered in Karachi with a nationwide footprint and regional offices in Lahore, Islamabad and Multan.

Install base of 500+ plants.



nationwide footprint



20+ MW install base



## **EPC:**

Large-scale ground-& roof mounted PV plants for the C&I segment.

The Market Leader in Solar PV Solutions for Agricultural clients.



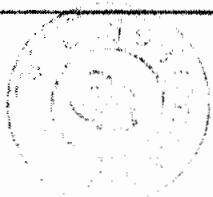
## **PPA:**

Pakistan's sole solar EPC company with an in-house financing facility for solar PV Power Purchase Agreements ("PPAs") / Rentals.




## **Analytics:**

AlsoEnergy analytics platform is critical for solar asset management. It's cloud based, customizable and scalable offering meets our client's growing needs.



## GSolar - Summary and our Strengths

	Shareholder	<ul style="list-style-type: none"><li>• Owner operators and Vitol.</li></ul>
	Nationwide Footprint	<ul style="list-style-type: none"><li>• 3 main offices nationwide, Karachi , Lahore &amp; Multan</li><li>• Over 150 professional staff</li></ul>
	Strong Leadership	<ul style="list-style-type: none"><li>• Experienced owner / operators with strong professional &amp; engineering backgrounds</li></ul>
	In-house Teams	<ul style="list-style-type: none"><li>• Our solutions are exclusively designed, installed and monitored by our staff. We do not sub-contract any of our work</li></ul>
	World Class Design	<ul style="list-style-type: none"><li>• Our exclusive technical partnership with BElectric gives us access to best global solar PV design and engineering resources</li></ul>
	Experienced Team	<ul style="list-style-type: none"><li>• GSolar has 4+ years of solar PV experience with 750+ installations &amp; 20 MW to date. Repeat blue chip C&amp;I clients</li><li>• Can leverage BElectric's 15 years and 3 GW+ experience for large projects</li></ul>
	Financing Facility; PPA	<ul style="list-style-type: none"><li>• With our financial partner/Shareholder's strength Vitol, (Annual revenue in excess of 200 Billion USD) we have the unique capacity to do large scale utility projects</li></ul>

## With an executive team unparalleled in depth & experience



**MUSHTAQ CHHAPRA , CHAIRMAN**

Mr. Chhapra is an industrialist with diversified business interests in Pakistan, South Africa & Sri Lanka. He is recognized internationally for his philanthropic work as Founder and Chairman of The Citizen's Foundation and also runs The Patient Aid Foundation, a private-public partnership at Jinnah Hospital. In addition, he is a recipient of the Sitara-e-Imtiaz, Pakistan's highest civilian honor.



**ZAIN ABDULLAH , CEO, DIRECTOR**

Zain is a seasoned finance executive with over 25 years of experience. Till most recently, he was the Senior Executive Officer of National Bank of Abu Dhabi Investment Management. Prior to NBAD he was Managing Director at the global investment bank Calyon in New York. He spent the earlier part of his career at Credit Suisse and JPMorgan. He holds a Bachelor's degree in Electrical Engineering from Massachusetts Institute of Technology and an MBA from Columbia University's Graduate Business School.



**AAMER ABDULLAH , DIRECTOR**

Aamer is a business professional with over 20 years experience of financial markets. He currently is a partner at MI Ventures, a New York based early stage fund that makes investments in seed stage technology companies. Previously, he was a Managing Director & Portfolio Manager at a hedge fund and prior to that held senior roles at Deutsche Bank and Credit Suisse in New York City. He holds a Bachelor's degree in Electrical Engineering and Economics from Yale University and an MBA from Columbia University's Graduate School of Business.

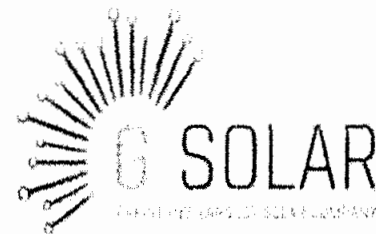
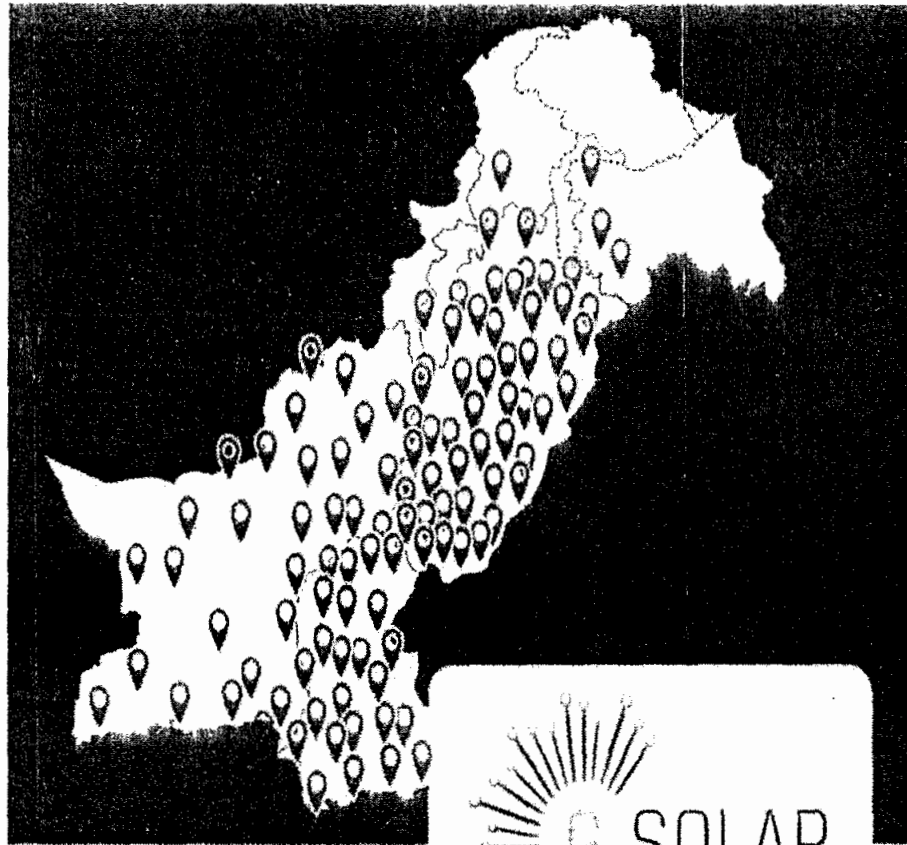


**SHAZIM CHHAPRA , DIRECTOR**

Shazim is a business professional with over 20 years of experience running his family industrial holdings in Pakistan and South Africa. He is credited in turning around two businesses. He holds a Bachelor's degree in Mechanical Engineering from Columbia University and an MBA from NYU's Stern School of Business.



# GSolar's Network



GSolar has an extensive network, spread across the nation of blue chip clientele, including renown brands and institutions of the country.





## Reference Install Base

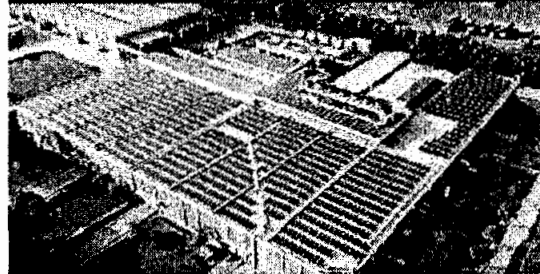
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### G-PANI - PUNJAB AGRICULTURAL DEPARTMENT



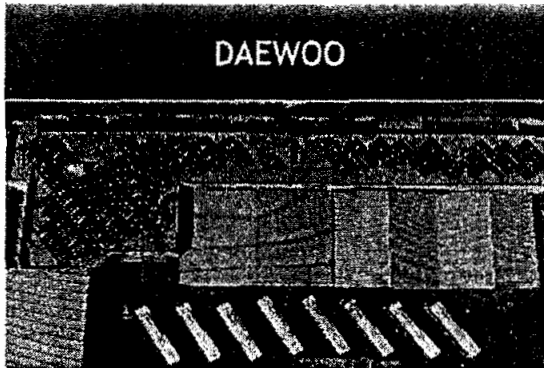
Project size: 4 MWp  
Commissioned: 2017-18

### ATLAS GROUP



Project size: 1.1 MWp - Sheikhpura & Karachi  
Commissioned: 2016, 2020

### DAEWOO



Project size: 500 kWp  
Underway: 2017-2020

### Towell's Dye House



Project size: 332 kWp  
Commissioned: 2020



# GSolar Consortium

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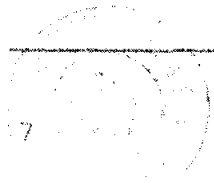
GSolar is one of the largest solar companies in Pakistan with a nationwide presence of 150+ employees & over 4 years of experience. Our shareholders include VITOL. Additionally, we have an exclusive technology partnership with BELECTRIC.



Vitol is the world's largest independent energy trader, with daily trade volumes equivalent to over 10% of global oil demand. In the USA and Europe they trade over 1000 TWh of electricity per year. Their 2018 revenues were in excess of 235 Billion USD.

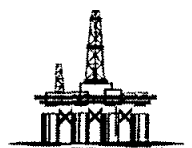
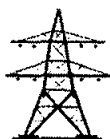
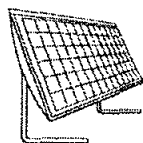


BELECTRIC (German HQ) is one of the world's largest Solar EPC companies with 15 + years of experience & 2 + GW global installation base spread over 300+ solar PV plants.



2/22

# The World's Largest Independent Energy Trader



Vitol sits at the heart of the global energy flows. For over 50 years we have served world's energy markets, trading seven million barrels of crude oil and products a day and delivering energy products to countries worldwide.



**Logistics:**  
250 vessels making  
6,800+ ship journeys  
undertaken in 2018



**Distribution:**  
6,500+ service stations  
globally

**Refining:**  
480,000 bpd refining  
capacity across 6  
locations.



**Investing strategically:**  
We are invested in a  
growing portfolio of  
energy assets that  
complement our  
business.

**Revenue:**  
2018: USD 231 billion.



**Trading Energy:**  
Over 9 million tons of jet  
fuel at 140+ airports  
worldwide.

7.4 million barrels of  
crude oil & products  
traded everyday.

1,000 TWh power traded  
annually across Europe  
and the US.



# BELECTRIC® One of the World's Largest EPC Companies



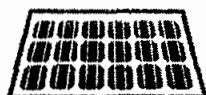
years of experience



500+ employees



global presence



2000+ MW install base

## Solar Power Services:

As a world leading company in the construction of solar power plants BELECTRIC has access to an experience of over 2 GWp installed solar power. Our grid-friendly multi-megawatt systems operate on the same level as conventional energy solutions and are commissioned from one source.



## EPC:

One of the world's largest solar EPC company with an install base of 285 plants in 24 countries totaling 2+ GW. Recently commissioned 800 MW solar plants in Australia & India.



## Services:

Full spectrum of services from R&D, product development, components manufacturing, site preparation and system design to full service EPC & O&M.



## Intellectual Property:

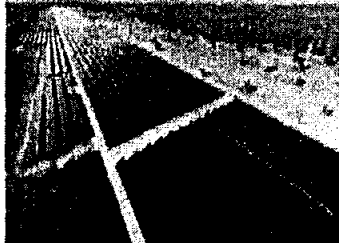
At the cutting edge of emergent solar technology and trends, BELECTRIC has been granted 100+ patents since 2001.



WMA

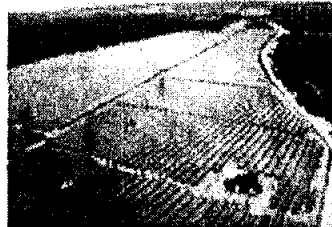
# BELECTRIC® Worldwide 300 plants, over 3+ GW

## TEMPLIN



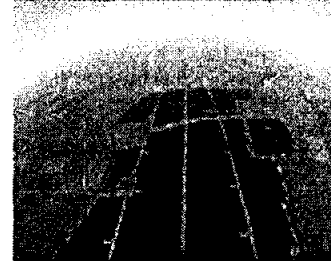
Project size: 128.4MWp  
CO2 reduction: 74,300t/p.a.  
Country: Germany

## ALT DABER



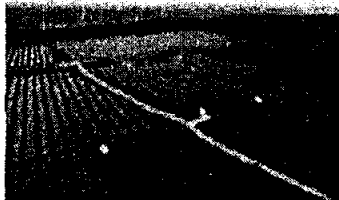
Project size: 67.8MWp  
CO2 reduction: 39,000t/p.a.  
Country: Germany

## LANDMEAD



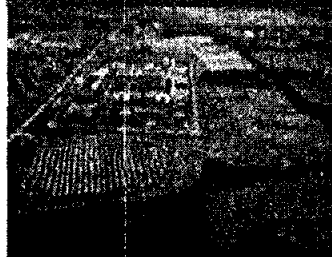
Project size: 45.9MWp  
CO2 reduction: 23,800t/p.a.  
Country: United Kingdom

## RECKAHN I+II



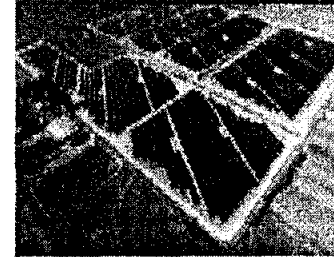
Project size: 35.9MWp  
CO2 reduction: 20,700t/p.a.  
Country: Germany

## MARYLAND SOLAR (USA)



Project size: 29.0MWp  
CO2 reduction: 37,000t/p.a.  
Country: USA

## BRUCEVILLE (USA)



Project size: 21.9MWp  
CO2 reduction: 28,000t/p.a.  
Country: USA

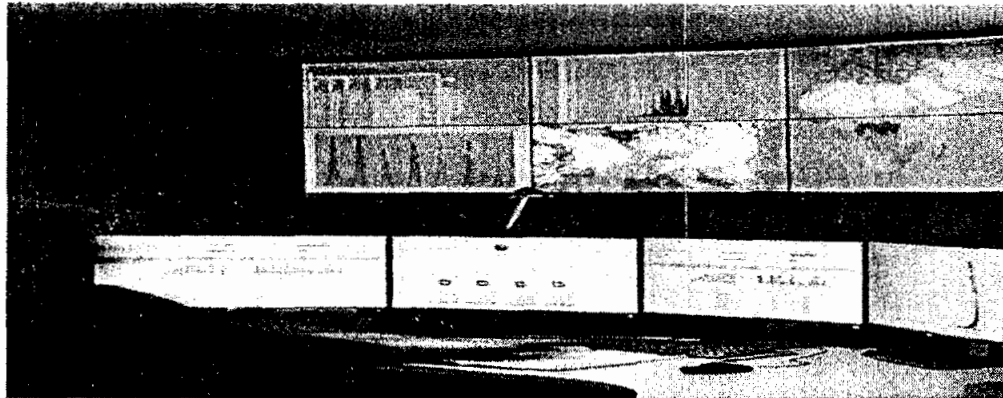
For reference, open [https://belectric.com/wp-content/uploads/2018/06/BEL\\_SKW\\_Referenzliste\\_2017-10-11\\_www.pdf](https://belectric.com/wp-content/uploads/2018/06/BEL_SKW_Referenzliste_2017-10-11_www.pdf)  
Discover BELECTRIC'S latest reference projects at [www.belectric.com/projects](http://www.belectric.com/projects)





## The World's Largest Solar Analytics Platform

- AlsoEnergy's platform is critical for solar asset management
- It tracks all project data across multiple systems down to the hardware level with diagnostics and analytics layered on to help all users minimize losses and optimize outcomes
- GSolar is AlsoEnergy's exclusive agent in Pakistan
- Key Features
  - Inverter Neutral
  - Unbiased reporting
  - Customized & scalable data analytics as per client needs
  - Flexible and robust management of multiple sites
  - 3rd Party Independent Carbon Credit Audit



More than  
**190,000 sites**  
worldwide



**Over 30 GW**  
of power  
monitored



**Over \$30 billion**  
of assets under  
management



# Recent G Solar EPC Projects

## Projects Completed

Client	kWP
Solarization of HEIS (Govt. Of Punjab, Jaffer Brothers Drip Irrigation)	4,500
Atlas Honda Limited Sheikhupura	1,000
Towellers Ltd. Karachi	332
Ugoki Metalware Sialkot	218

## Projects Signed (In progress)

Client	kWP
Atlas Honda Limited Sheikhupura	5,000
Sialkot International Airport Sialkot	1,000
Pakistan Corrugated Karachi	900
Daewoo Pakistan Lahore, Multan, Islamabad	421
Others	300



**Annexure O**



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ID	Task Name	Duration	Start	Finish	Qtr 4, 2021 Oct	Nov	Dec	Qtr 1, 2022 Jan	Feb	Mar	Qtr 2, 2022 Apr
1	250kWp Project at Marriott Hotel Islamabad	150 days	Mon 01/11/21	Wed 30/03/22							
2	EPA Sign off	1 day	Mon 01/11/21	Mon 01/11/21							
3	Design Finalizations	45 days	Wed 24/11/21	Fri 07/01/22							
4	Site Survey	2 days	Wed 24/11/21	Thu 25/11/21							
5	Design Revision	15 days	Fri 26/11/21	Fri 10/12/21							
6	Design Submission	1 day	Sat 11/12/21	Sat 11/12/21							
7	Go Ahead from Client	7 days	Sun 12/12/21	Sat 18/12/21							
8	EPC and O&M Contract Signing	10 days	Wed 29/12/21	Fri 07/01/22							
9	Ordering of Equipment	40 days	Sat 08/01/22	Wed 16/02/22							
10	Delivery of Solar Panels and Inverter	2 days	Mon 24/01/22	Tue 25/01/22							
11	Site Survey for Fabrication	2 days	Sat 08/01/22	Sun 09/01/22							
12	Delivery of Other Equipment	20 days	Mon 10/01/22	Sat 29/01/22							
13	Mobilization of Work Force	1 day	Sun 30/01/22	Sun 30/01/22							
14	Installation	47 days	Mon 31/01/22	Fri 18/03/22							
15	Mechanical Structure Deployment	15 days	Mon 31/01/22	Mon 14/02/22							
16	PV Panels and Inverters Installation	7 days	Tue 15/02/22	Mon 21/02/22							
17	AC & DC Cabling	10 days	Tue 22/02/22	Thu 03/03/22							
18	Remaining BOS completion	15 days	Fri 04/03/22	Fri 18/03/22							
19	System Commissioning	12 days	Sat 19/03/22	Wed 30/03/22							
20	System Interconnection (Subject to Shutdown)	2 days	Sat 19/03/22	Sun 20/03/22							
21	System Testing	10 days	Mon 21/03/22	Wed 30/03/22							

Project: MHI  
Date: Fri 24/09/21



Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

**Annexure P**



## ESSA (Environmental and Social Soundness Assessment)

### Executive Summary

Burj DG (Private Limited) intends to develop a 250 kWp rooftop solar photovoltaic (PV) at Marriot Hotel Islamabad. This document presents the results of an initial environmental examination (IEE) analysed for the construction and operation of the proposed Project.

The project will be developed as a rooftop solar plant, connected to the internal grid of Marriot Hotel Islamabad which is one of the hotel properties of Hashoo Group. Conversion of solar panel electrical output from direct current (DC) to alternating current (AC) will be achieved by means of string inverter stations called 'power blocks'.

### Description of Environment:

#### Physical Environment

It is subtropical climate in Islamabad, rain, monsoon ravaging and hot in summer and autumn.

#### Temperature:

The month with the lowest average temperature is January (2.6°C). The month with the highest average temperature is June (38.7°C).

#### Rainfall:

The wettest month (with the highest rainfall) is July (368mm). The driest month (with the lowest rainfall) is November (17.8mm).

#### Humidity:

### Project Environmental Impacts and Mitigation Measures:

This section discusses the potential environmental impacts, assesses the significance, recommends mitigation measures to minimize adverse impacts, and identifies the residual impacts associated with the proposed activities of the project during the construction and operation phase of the proposed project at the proposed site and of secondary actions like potable, raw water and wastewater lines.

#### Identification of Potential Impacts

In the first step, potential impacts of the project are identified, using professional judgment, published literature on environmental impact of similar projects, environmental guidelines and checklists, and field visits.

- Impact on Occupational health and safety/ Public Health (of contractors, workers and nearby community. It includes safety at work, Fire, explosives, diseases etc)
- Ground water or surface water
- Impact on energy



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- Impact on natural resources
- Impact on aesthetics
- Impact on land use
- Impact on land form
- Impact on soils
- Impact on traffic and transportation
- Noise or vibration
- Air quality (ambient air quality and indoor air quality).
- Solid Waste Management (including domestic waste, construction waste)
- Impact on population
- Impact on utilities and infrastructure
- Socio-economic impact (people, their social, cultural values, and aspirations)

#### Design Phase

Design phase is the phase that is meant for the preparations prior to the construction. During design phase, engineers (meant for construction) will come and visit the site. Necessary preparations will be started for construction. Gant chart will be prepared. Visits by the engineers and contractors to check the site and structure to be build but there will not be routine or regular visits to the site but once in a week and design phase will last only for a month or so.

#### Impacts Prediction

##### Impact on Air

During design phase, air emissions that exceed federal or provincial limits or standards, will not be exceeded because during design phase, there would be lesser visits to the site, lesser would be the atmospheric emissions. And the source of these emissions would be the motor vehicles only (for personal use). There would be no hazardous emissions (e.g. high amount of NOx, SOx and COx) and no objectionable odours as well as alternation of air temperature.

##### Impact on Ground water/ surface water

There would be no utilization or alteration to the course or flow of water during design phase so there would be no impact on this component of environment.

##### Impact on Solid Waste

it may create only litter and trash waste (recyclables).

##### Noise Impact

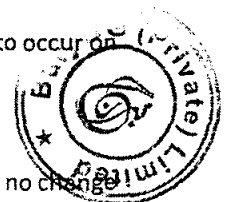
It will not increase significant amount of noise during design phase of the proposed project and will be within acceptable limits or NEQs.

##### Impact on Soils

There would be no change in soils and land forms i.e. the construction activity is not going to occur on ground.

##### Impact on Land forms

Land forms will not change and this component is also having no impacts as there would be no change in ground contours. There are no unique physical features at the site so land forms will not be changed.



**Impact on Land use**

The project will have a positive impact on land use but during design phase the land use is not going to be altered, so this impact would be neglected in this phase.

**Impact on energy**

Design phase is not going to alter or use the energy like electricity, gas, petrol etc. in excessive amount as there will not be routine or regular visits to the site but once or twice in a week and design phase will last only for a month or so.

**Impact on transportation and traffic circulation**

There will be few additions to the movement of additional vehicles but these will also for once or twice in a week during design phase. In this phase, there is no need for the additional parking facility. This would in turn lead to no traffic hazards.

**Impact on natural resources**

There won't be any increase in the rate of usage of any natural resource like any minerals, additional fuel for vehicles, oil, construction materials, and natural food products. But there would be increase in the amount of usage of paper for map-making, enlisting items (e.g. types of construction materials to be used), letter writing and receipts (e.g. of billing & quotations), etc.

**Impact mitigation**

- Try to recycle the paper and prevent throwing it in the ordinary bin.
- Use of computer technology i.e. E-mails instead of focusing on paper
- Lessen the paper use and conserve the natural resources.

**Impact on population**

This project is not going to disturb or relocate the existing community, so there would be no change in population.

**Impact on utilities and infrastructures**

There would be no alteration in the existing utilities like communication system, water courses, power transmission lines, electrical wirings, etc due to the project's design phase. There would be no impact on nearby infrastructure e.g. nearby shops/malls, residences, institutes, mosques, communication offices, banks etc. during design phase.

**Impact on economy**

The economy is having no adverse effects on local or regional income levels, land values, or employment etc. but there will be regional beneficiary impacts on income during design phase of the project in such a way that there will be hiring of consultants, engineers, contractors and labors etc that will increase their income.

**Impact on Public health**

The design phase will impart no adverse potential health effects to the people. Accidental Risk

**Impact on Flora/ Fauna**



19/11/17

There will be no disturbance to the existing flora and fauna of the proposed design phase of the project.

**Impact on Aesthetics**

No change would result in any scenic vista or aesthetics of the vicinity. No visual or temporary scenic blight during design phase.

**Construction Phase**

Construction phase is the phase that is meant for the construction by the hired contractor. Contractor responsibility is to bring labors, materials and equipment from suppliers. Then in the next step there will be commencement of the construction, construction vehicles & machines (concrete mixer machine and trolleys) and materials (course aggregate and fine aggregate, cement, bricks) and other equipment and tools (trolleys, cutters, hammers, saws, ladders, screwdrivers, wrenches, steel reinforcement, scaffolding etc.) will be assembled. This section is also focusing the potential impacts (both positive and negative) related to the construction phase along with the mitigation measures stepwise because it is likely that the new construction activities will surely affect the surrounding areas.

**Impact on Air**

The impact on air of this construction activity will be for short-term i.e. for construction phase only. Therefore, no high violation will be resulted.

**Impact on Ground water/ surface water**

There would be no drilling and boring holes in the groundwater for the construction activities. There would be no alteration to the course or flow of water during this phase so there would be less impact on this component of environment.

**Noise Impact**

The project site is located away from residential area. So, noise will not create any harmful impact.

**Impact on Soils and landform**

There will be change in soil condition. Soil erosion will decrease and it will positively impact by reducing carbon footprints.

**Impact on Flora and Fauna**

There will be no impact on Flora and Fauna because the construction is being done in an urban area.

**Impact on Land use**

This is a rooftop project so land use will not be impacted.

**Impact on energy**

Construction phase is going to use the energy like electricity, petrol or diesel in excessive amount as there will be routine or regular visits to the site (i.e. energy will be used for transport in the form of petrol or diesel) and for moving machinery.

**Impact Mitigation**



There will be a minimal impact on the use of energy as this phase is for short term period say e.g. 5-6 months and the only solution is to use these energy resources in conservation mode (i.e. minimize the use but do not misuse like for example, keep turning on the machine even when it is not required.

**Impact on transportation and traffic circulation**

There will be additions to the movement of additional vehicles during construction phase but there are already existing alternating routes for traffic (street traffic) so no need to define alternating routes and parking facilities.

**Impact mitigation**

For transportation of the construction equipment, routes and duration must be defined.

**Impact on population**

This project is not going to disturb or relocate the existing community, so there would be no change in population during this phase as well.

**Impact on utilities and infrastructures**

There might be little disturbances to the existing utilities like communication system, water courses, power transmission lines, electrical wirings and nearby infrastructure e.g. nearby residences, mosques, communication offices, etc. during construction phase. But that is usually in terms of noise only and easily neglected.

**Impact on economy**

The economy is having positive impacts on local and regional income levels, land values, & employment in such a way that there will be hiring of consultants, engineers, contractors and labors etc that will increase their income. Therefore, this project will surely enhance socioeconomic welfare e.g. health and employment (of labors, contractors, environmentalists, equipment/ materials suppliers, nearby hotels).

**Accidental Risk**

There may be accidental risks like falls or slips; cuts or injuries during hammering, sawing and drilling; and electric failure or sudden short circuit during electrocution works. There will be no handling of such chemical, drugs, radiations or explosives during construction phase that leads to catastrophic events or accidents.

**Impact mitigation**

Trained workers must be hired for construction by the contractors.

First aid team must be assigned by the hospital management to provide aid to the workers during time of emergency.

**Impact on Aesthetics**

There will be visual, temporary scenic blight during construction phase due to the construction activity but as this will be temporary and only if there is no containment of the construction materials dumping and usage, so it is neglected and predicted that the current project will impart no negative impact on the aesthetics of the area.

**Impact mitigation**



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Containment or enclosure must be provided around the storage of construction materials.

**Impact of Solid Waste**

Solid wastes generated from construction include abandoned construction materials. These solid wastes are usually harmless but will affect environmental sanitation of the construction site and cause environmental damage if improperly dumped offsite.

**Impact Mitigation**

- Implement Solid Waste Management procedure of Burj DG.
- Construction waste must be collected separately with segregation and routinely.
- Multi-compartment collection bins should be installed to facilitate reuse, recycle of this kind of waste i.e. if the construction material is in such form that can be reused or recycled so put separate bins for that and they can either be reused or recycled at the current project or if it is not needed then sell and transport it to the local market in sealed containment.
- The solid wastes must be collected regularly by the solid waste management authority and cleaned up by the contractors in a timely manner.
- The construction activity should be taken place in containment, boundary and limits so that it does not create harm to any person, place or property.



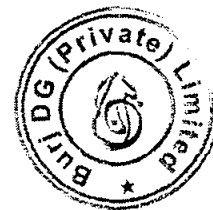
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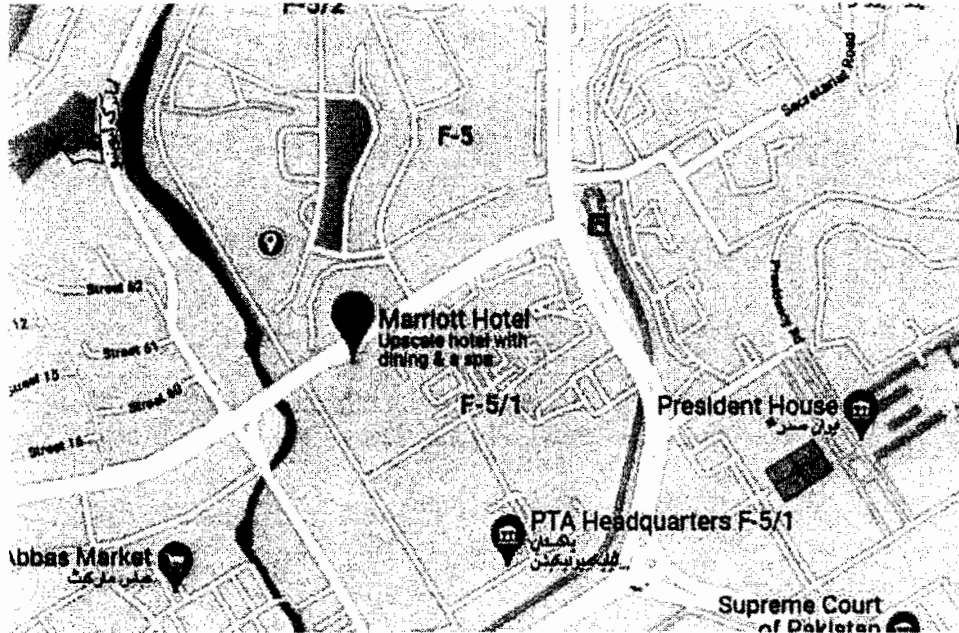
### **SCHEDULE-III**

The Location, Size (i.e. Capacity in MW), Type of Technology, Interconnection Arrangements, Technical Limits, Technical/Functional Specifications and other details specific to the Generation Facilities of the Licensee are described in this Schedule.

The Total Installed Gross ISO Capacity of the Generation Facility/Power Plant/Solar Plant (MW), Total Annual Full Load (Hours), Average Sun Availability, Total Gross Generation of the Generation Facility/Solar Farm (in kWh), Annual Energy Generation (25 years Equivalent Net Annual Production-AEP) KWh and Net Capacity Factor of the Generation Facility/Solar Farm of Licensee are given in this Schedule.



**Location of the  
Generation Facility/ Solar Power Plant/ Roof Top Solar  
of the Licensee**

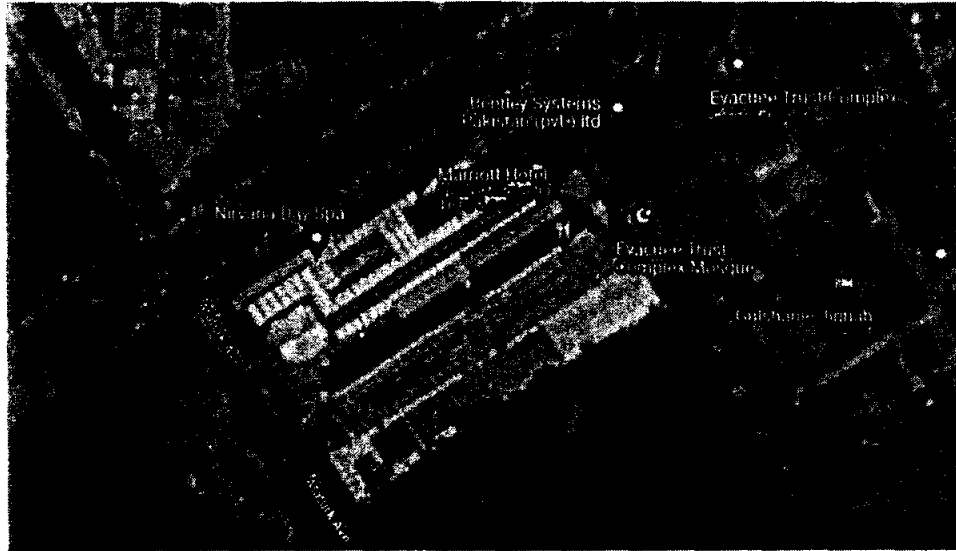


**Marriott Hotel, Islamabad**

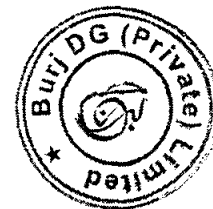


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**Land Coordinates of the  
Generation Facility/ Solar Power Plant/ Roof Top Solar  
of the Licensee**

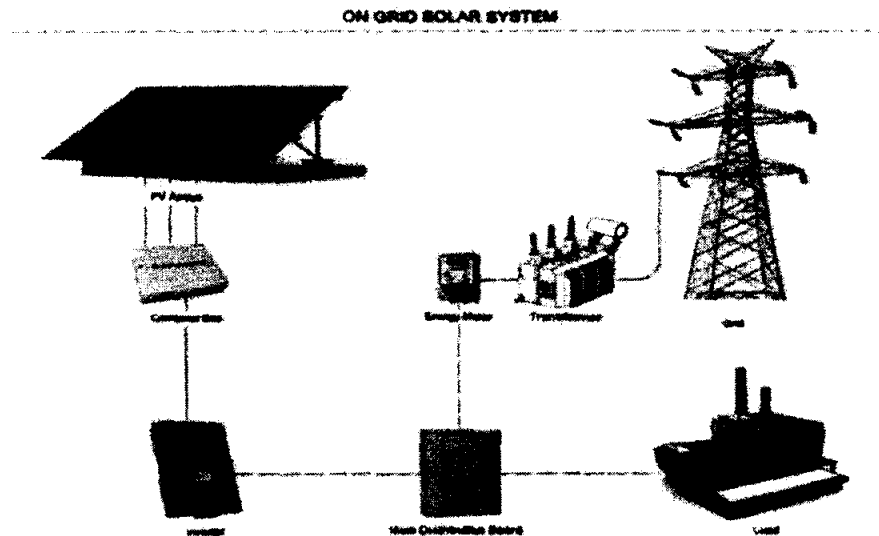


<u>Serial Number</u>	<u>Location</u>	<u>Site Coordinates</u>	
1.	Marriot Hotel Islamabad	Latitude	33°43'58.7"N
		Longitude	73°05'13.4"E



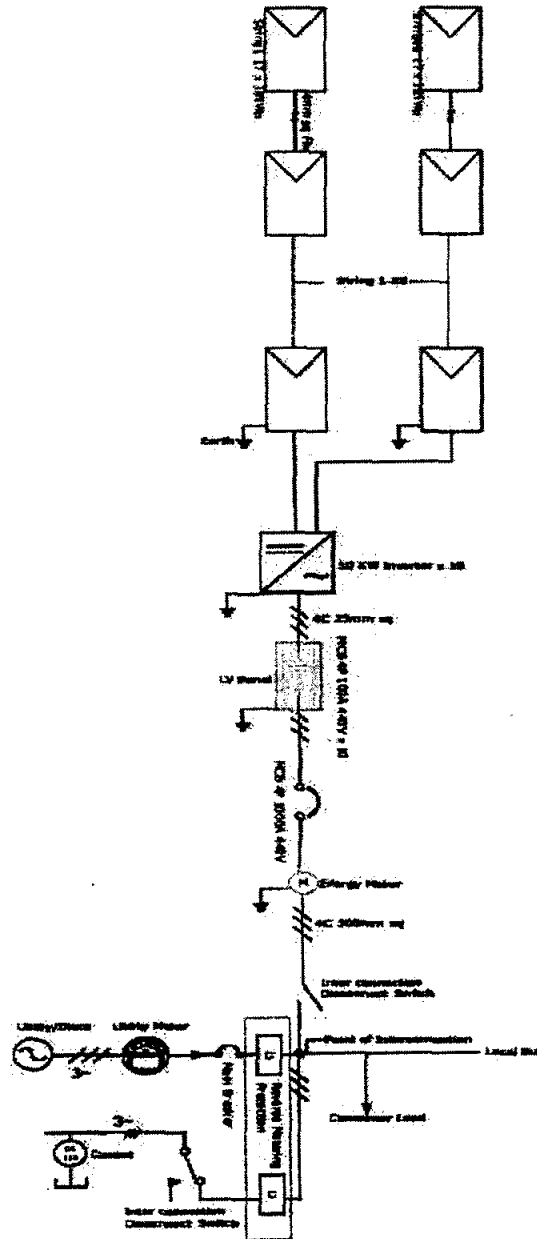
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**Process Flow Diagram**  
**Generation Facility/ Solar Power Plant/ Roof Top Solar**  
**of the Licensee**



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**Single Line Diagram**  
**Generation Facility/ Solar Power Plant/ Roof Top Solar**  
**of the Licensee**



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**Interconnection Arrangement/Transmission Facilities for  
Dispersal of Power from the Generation Facility/Solar Power  
Plant/Roof Top Solar of the Licensee**

The electric power generated from the proposed generation facility/Solar Power Plant/Roof Top Solar of the Burj DG Pvt Ltd/Licensee will be delivered/supplied to Bulk Power Consumer (BPC) in the name of Marriott Hotel, Islamabad located at F-5/1, Islamabad, in the Capital Territory.

(2). The details pertaining to BPC, their respective supply arrangements and other relating information are provided in the subsequent description of this schedule. Any changes in the said, shall be communicated to the Authority in due course of time.



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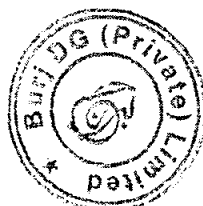
**Details of**  
**Generation Facility/Solar Power Plant/**  
**Roof Top Solar**

**(A). General Information**

(i).	Name of the Company/Licensee	Burj DG Pvt Ltd
(ii).	Registered/ Business office of the Company/Licensee	16 Abdullah Haroon Road, 3 <sup>rd</sup> Floor Faysal Bank Building, Karachi
(iii).	Type of the generation facility/Solar Power Plant/Roof Top Solar	Photovoltaic (PV) Cell
(iv).	Location(s) of the generation facility Solar Power Plant/ Roof Top Solar	Marriott Hotel Islamabad, F-5/1 Islamabad

**(B). Solar Power Generation Technology & Capacity**

(i).	Type of Technology	Photovoltaic (PV) Cell		
(ii).	System Type	On-Grid		
(iii).	Installed Capacity of the generation facility Solar Power Plant/ Roof Top Solar	250kWp		
(iv).	No. of Panel/Modules	468 x 535 Watt		
(v).	PV Array	Nos. of Strings	25	
		Modules in a string	12-20	
(vi).	Invertor(s)	Quantity	2	1
		Make	Huawei	

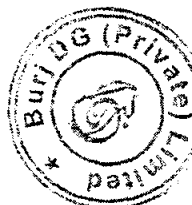


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		Capacity of each unit	33KW	36KW	100KW
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**(C). Technical Details of Equipment**

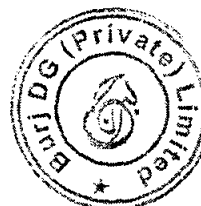
<b>(a).</b>	<b><u>Solar Panels – PV Modules</u></b>	
(i).	Type of Module	Jinko Solar JKM535M-7TL4-V
(ii).	Type of Cell	Mono PERC half cell crystalline
(iii).	Dimension of each Module	2274*1134*35 mm
(iv).	Total Module Area	2.5787 m <sup>2</sup>
(v).	Frame of Panel	Anodized aluminium alloy
(vi).	Weight of one Module	28.9 kg
(vii).	No of Solar Cells in each module	144 (6*24)
(viii).	Efficiency of module	20.75%
(ix).	Maximum Power (P <sub>max</sub> )	535 Wp
(x).	Voltage @ P <sub>max</sub>	40.63 V
(xi).	Current @ P <sub>max</sub>	13.17A
(xii).	Open circuit voltage (Voc)	49.34V
(xiii).	Short circuit current (Isc)	13.79A
(xiv).	Maximum system open Circuit Voltage	1000VDC (IEC)
<b>(b).</b>	<b><u>Inverters</u></b>	



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(i).	Type of Module	33 kW	36kW	100 kW
(ii).	Type of Cell	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-100KTL-M1
(iii).	Input Operating Voltage Range	200 V to 1000 V		
(iv).	Efficiency of inverter	98.7 %	98.7 %	98.8 %
(v).	Max. Allowable Input voltage	1100V		
(vi).	Max. Current	22 A	22 A	26 A
(vii).	Max. Power Point Tracking Range	200 V to 1000 V		
(viii).	Output electrical system	3 Phase AC		
(ix).	Rated Output Voltage	380 to 480		
(x).	Power Factor (adjustable)	0.8 Lagging-0.8 Leading		
(xi).	Power control	MPP tracker		
(xii).	Rated Frequency	50 Hz		
(xiii).	Environmental Enclosures	Relative Humidity	0-100%	
		Audible Noise	50 DB @ 1m	
		Operating Elevation	4000 m	
		Operating temperature	-25 to +60°C	
(xiv).	Grid Operating protection	A	DC circuit breaker	
		B	AC circuit breaker	



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		C	DC overload protection (Type 2)
		D	Overheat protection
		E	Grid monitoring
		F	Insulation monitoring
		G	Ground fault monitoring
(c).	<u>Data Collecting System</u>		
(i).	System Data	Continuous online logging with data logging software to portal.	
(d).	<u>Unit Transformer</u>		
(i).	Not Applicable		

**(D). Other Details**

(i).	Expected COD of the generation facility Solar Power Plant/ Roof Top Solar	March 31, 2022
(ii).	Expected useful Life of the generation facility Solar Power Plant/ Roof Top Solar from the COD	25 years

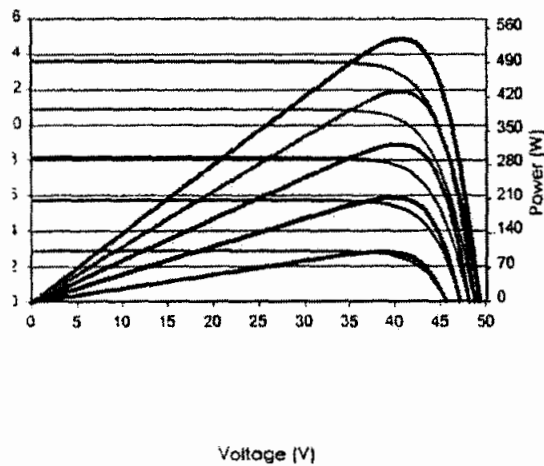


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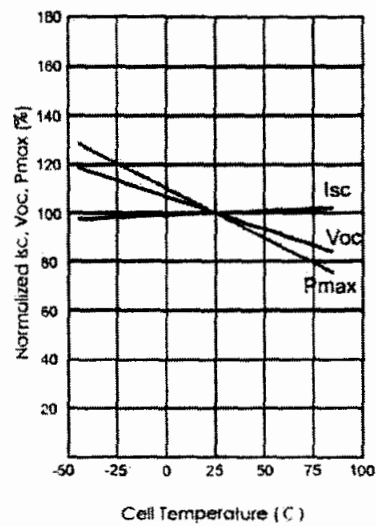
**V-I Curve**  
**Generation Facility/Solar Power Plant/Roof Top Solar**  
**of the Licensee**

**Electrical Performance & Temperature Dependence**

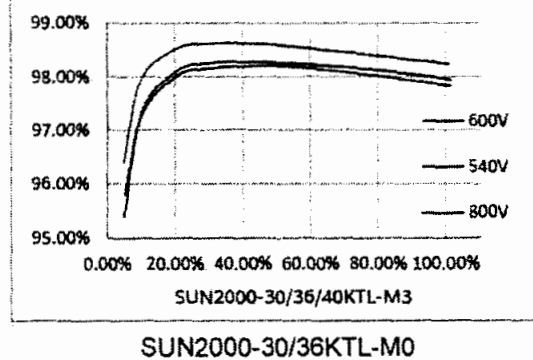
Current-Voltage & Power-Voltage  
Curves (540W)



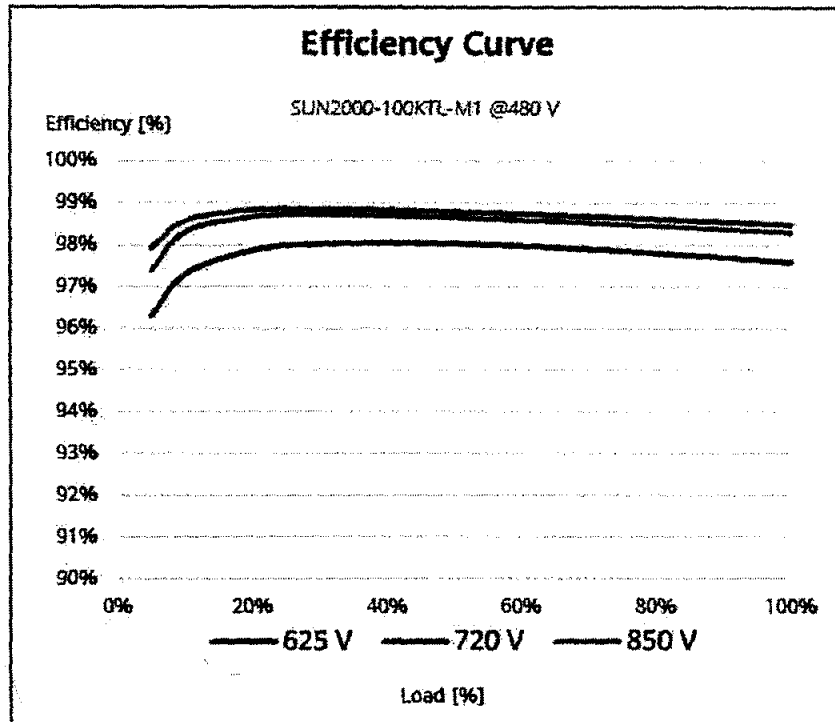
Temperature Dependence of  
Isc, Voc, Pmax



Efficiency Curve



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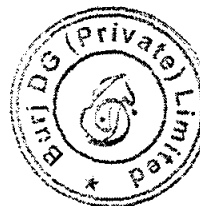
SUN2000-100KTL-M1



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**Information**  
**Regarding Consumer i.e. Marriott Hotel Islamabad to be Supplied by the**  
**Licensee i.e. Burj DG Pvt Ltd**

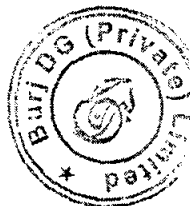
(i).	No. of Consumers	1 (One)
(ii).	Location of consumers (distance and/or identity of premises)	Marriott Hotel Islamabad, F-5/1 Islamabad
(iii).	Contracted Capacity and Load Factor for consumer	250 kWp/ 10 - 15%
(iv).	Specify Whether	
	(a). The consumer is an Associate undertaking of the Licensee -If yes, specify percentage ownership of equity;	No
	(b). There are common directorships:	No
	(c). Either can exercise influence or control over the other.	No
(v).	Specify nature of contractual Relationship	
	(a). Between each consumer and the Licensee	Burj DG Pvt Ltd will construct and operate solar plant and provide electricity to Marriott Hotel Islamabad for its operations.
	(b). Consumer and DISCO.	Yes Existing Consumer of IESCO with Connected Load of 01.550 MW
(vi)	Any other network information deemed relevant for disclosure to or consideration of the Authority.	NA



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**Information**  
**Regarding Distribution Network for Supply of Electric Power Consumer in the**  
**name of AAL**

(i).	No. of Feeders	01
(ii).	Length of Each Feeder (Meter)	125m
(iii).	Length of Each Feeder to each Consumer	125m
(iv).	In respect of all the Feeders, describe the property (streets, farms, Agri land, etc.) through, under or over which they pass right up to the premises of customer, whether they cross-over.	N/A
(v).	Whether owned by ATEL, Consumer or DISCO-(deal with each Feeder Separately)	N/A.
	(a). If owned by DISCO, particulars of contractual arrangement	N/A.
	(b). Operation and maintenance responsibility for each feeder	DISCO
(vi).	Whether connection with network of DISCO exists (whether active or not)- If yes, provide details of connection arrangements (both technical and contractual)	A-2c(06)T of IESCO
(vii).	Any other network information deemed relevant for disclosure to or consideration of the Authority.	N/A.

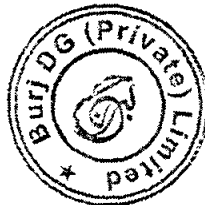


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(1)	Total Installed Capacity of the Generation Facility/Solar Power Plant/ Roof Top Solar	250 kWp
(2)	Average Sun Hour Availability/ Day (Irradiation on Inclined Surface)	5 to 5.5 Hours
(3)	No. of days per year	365
(4)	Annual generating capacity of Generation Facility/Solar Power Plant/ Roof Top Solar (As Per Simulation)	370 MWh
(5)	Total expected generation of the Generation Facility/Solar Power Plant/ Roof Top Solar during the twenty five (25) years term of this licence	8664.482 MWh
(6)	Annual generation of Generation Facility/Solar Power Plant/ Roof Top Solar based on 24 hours working	1614 MWh
(7)	Net Capacity Factor of Generation Facility/Solar Power Plant/ Roof Top Solar	16.86%

**Note**

All the above figures are indicative as provided by the Licensee. The Net Delivered Energy available to Power Purchaser for dispatch will be determined through procedures contained in the Energy Purchase Agreement (EPA) or the Applicable Document(s).



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