### Pakistan Portfolio SDGs Investment Fair

14 APRIL- 2021







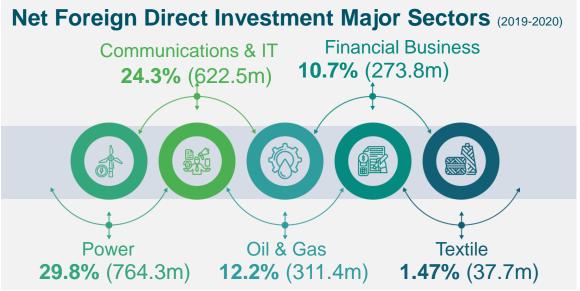
### **Pakistan** Profile



- Achieved macro-economic stability: aiming for post COVID-19 economic recovery.
- Projected to approach upper middle-income status, with declining poverty rate, lowered inequality and better HDI ranking.
- National poverty headcount ratio declined from 6.1% in 2013-14 to 3.9% in 2015-16.
- Among top ten best reformers in the World Bank's Ease of Doing Business Index 2020.
- Estimated private investment needs of \$96.2 billion in infrastructure related SDGs makes Pakistan an attractive destination for FDI.
- Gradual increase in investment to GDP ratio required from 15% to 25% to achieve sustainable growth.
- Risk mitigation: COVID-19 has increased the number of people living below the poverty line to approx. 50 million (25% of population). Hence, immediate need for SDG investments to prevent reversal of recent economic gains.

### A Frontier Market Ripe for Growth





41,726,683

GDP\* (million PKR) (million US\$)

256,795 1USD=PKR162.49)

9.1% Inflation Rate (March 2021)

15.4% Investment to **GDP** Ratio

2,561.2

FDI\* Net (million USD) 2.0

Post-**COVID GDP Projection** 



12.9 Total Revenue



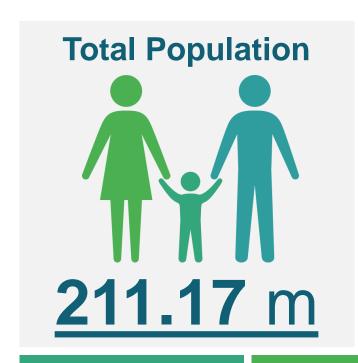
11.8 Tax Revenue (% of GDP) (2019) (% of GDP) (2019)



3.2

Total Dev. Expenditure & net lending (% of GDP) (2019)

### Demographic Dividends as Force Multiplier





Over180
million

Teledensity
84.04%
(Jan 2021)

Workforce
Population

65.5 m

Youth Employment to Pop Ratio

42.30

Languages
Urdu (Official)
English (Official)

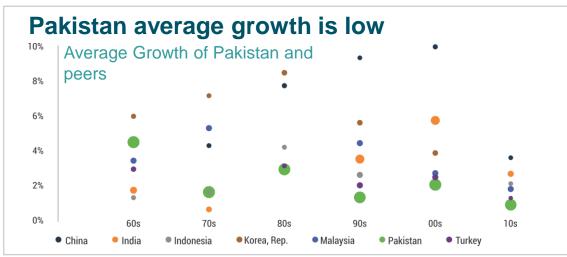
Land Area **796,096** 

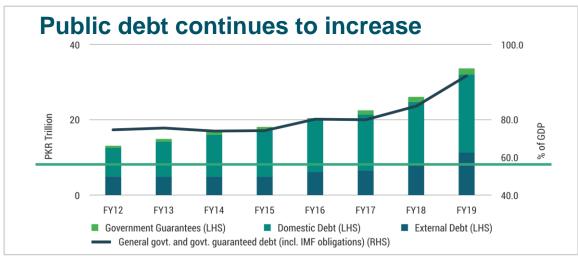
sq. km

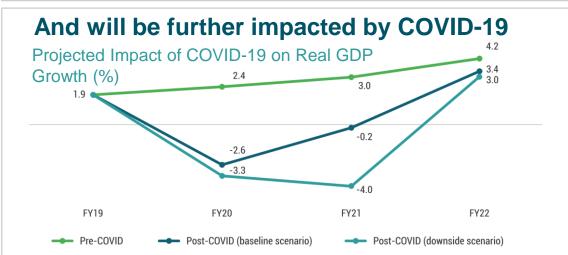
Internet
Subscribers

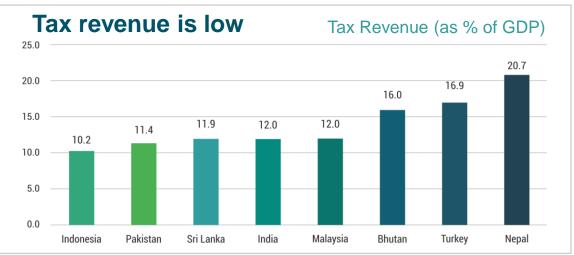
100 million
(April 2021)

### **Continued Fiscal Constraint**









Source: World Development Indicators, 2017-2020

### Pakistan's Growth Vision 2025



Rebuild Institutions



Inclusive Growth



Enhance Competitiveness



Green Economy



### Top 5 Reasons to Invest in Pakistan



Highest corporate profitability in emerging markets
Rose 39% as compared to 2019

Developed financial market and favorable investment regulations

Regional connectivity with China, West & Central Asia

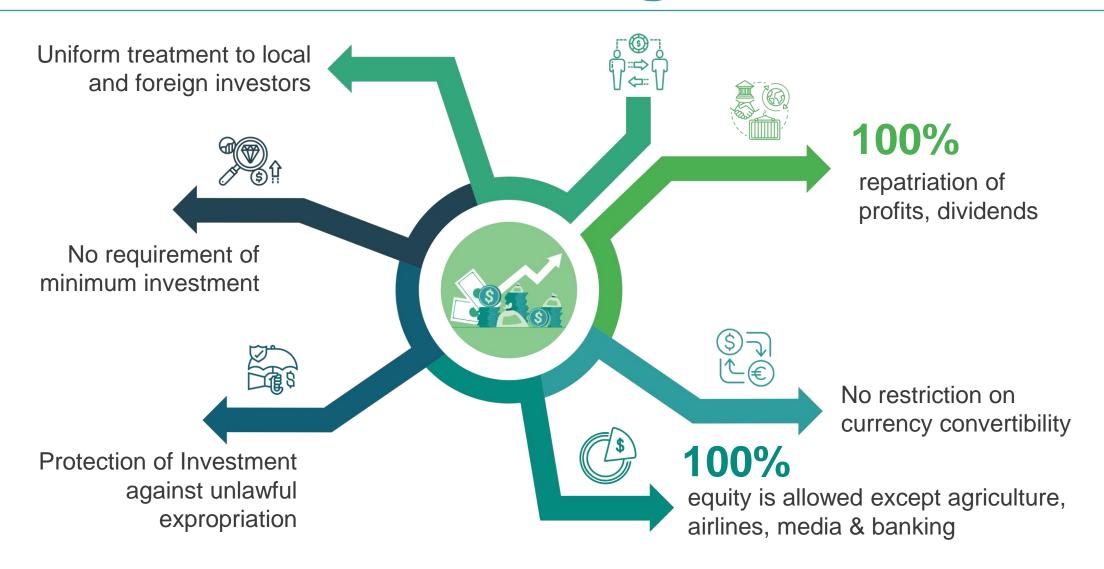




Highest increase in Ease of Doing Business ranking – from

147to108

### Liberal Investment Regime



### Pakistan SDG Investment Opportunity

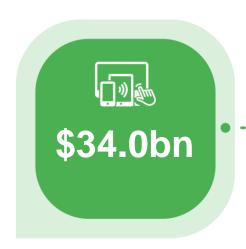
Potential of private sector investment of

\$96.2bn

Transport

Total **\$38.5bn** investment required to achieve significant improvements by 2030





### **Digital Access**

Total **\$56.6bn** investment required to achieve universal access by 2030



Total **\$40.1bn** investment required to achieve universal access by 2030



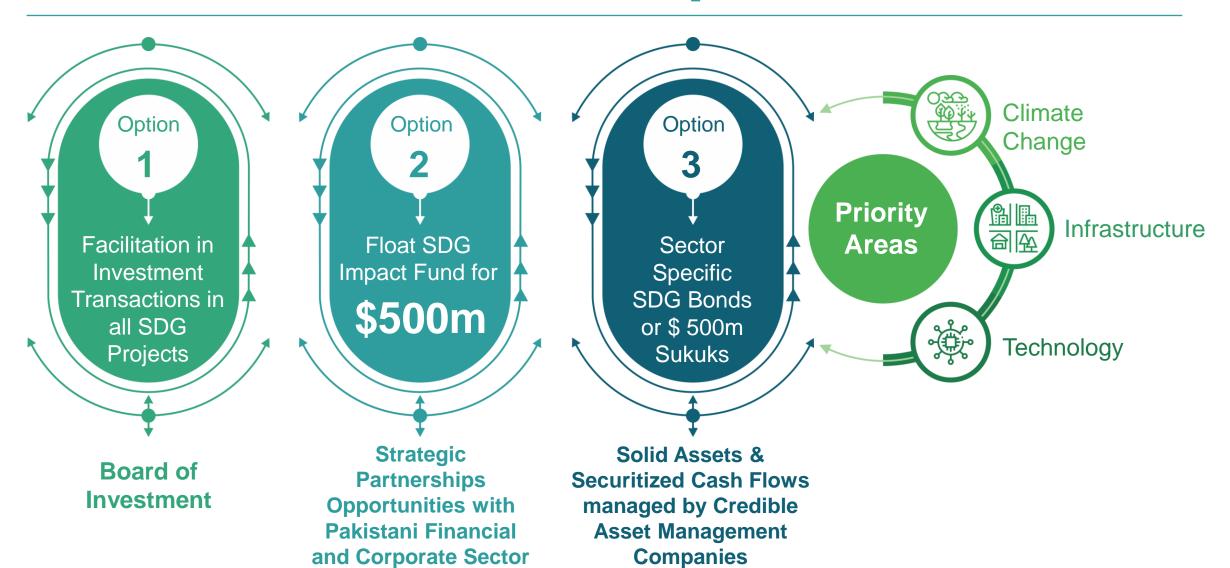


### **Power**

Total **\$99.3bn** investment required to achieve universal access by 2030

Source: Opportunity 2030. The Standard Chartered SDG Investment Map

### Flexible Investment Options



# PRIORITY SDG ALIGNED PROJECTS



### Pakistan Board of Investment



- One Window for your investment endeavors in Pakistan
- Apex Investment Promotion & Facilitation Agency
- Focal Agency to Improve Legislative/Regulatory/Policy Environment for Investment
- Secretariat & Lead Agency for

Investment	Special Economic	Industrial Cooperation under CPEC	Ease of Doing
Policy	Zones		Business
Regulatory Modernization Initiative	Recommendation for Work Visa	Branch / Liaison Office	(www.invest.gov.pk)

### **Investment** Facilitation



COMPANY REGISTRATION IN A SINGLE DAY



ONLINE VISA FACILITATION



ONLINE ONE WINDOW PORTAL



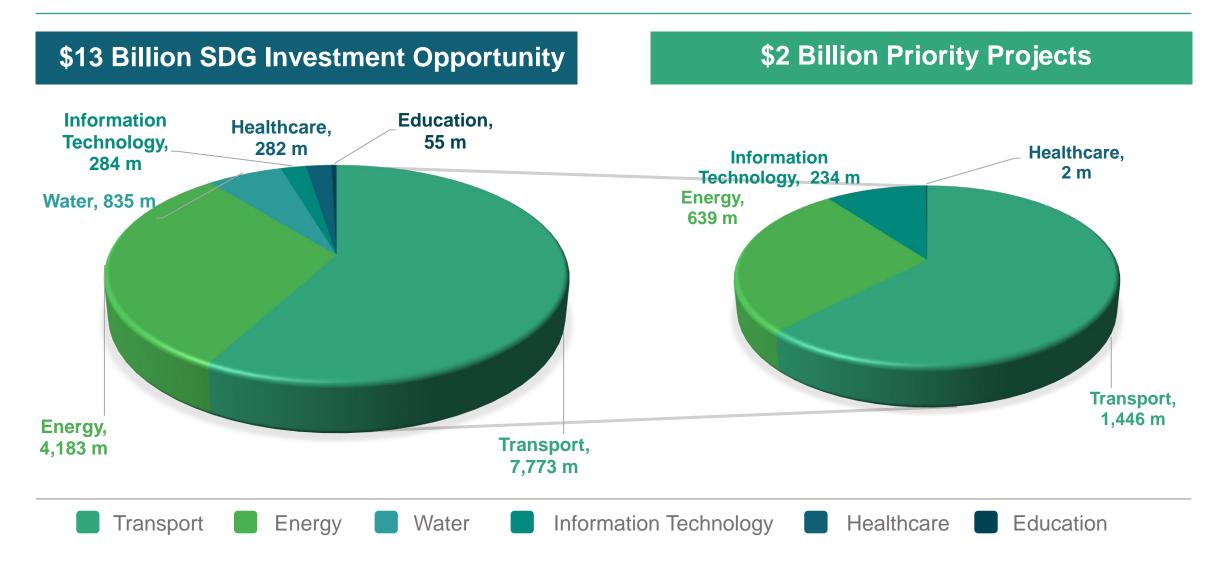
SPECIAL
INCENTIVES FOR
TECHNOLOGY &
SOCIAL
SECTORS



BORROWING FACILITATION FROM FINANCIAL SECTOR



### Repository of SDGs Aligned Projects



### List of Priority SDGs Aligned Projects

- Sialkot-Kharian-Rawalpindi Motorway Phase-I
- Sialkot-Kharian-Rawalpindi Motorway Phase-II
- 188 MW Naran Hydropower Project
- 96 MW Batakundi Hydropower Project
- Medical Devices Development Center
- Silicon Solar PV Panel Fabrication Facility (500 MW/annum)
- Production of Agriculture Drones & 250 Smart Farms
- NED Technology Park
- Startup Incubations Across Pakistan

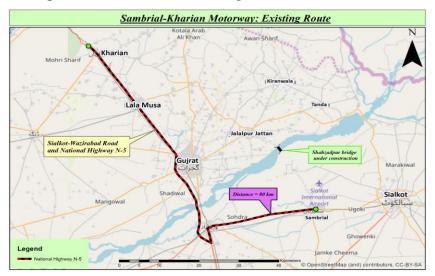
## Project 1 SIALKOT-KHARIAN-RAWALPINDI MOTORWAY –PHASE I







### **Project Location Map**



#### **Description:**

This important toll road project is designed with a total length of 69 km connecting Pakistan's largest SME industrial cities. This strategic project will play a major role in Pakistan's post-COVID economic recovery. The basic design and commercial feasibility study have been done. The project will be extension of 4-lane Lahore-Sialkot Motorway which is operational for traffic. The Sialkot-Kharian project would further be extended up to Rawalpindi in next phase. The project will reduce cost of doing business and increase commercial transport connectivity.

**Sector:** Communication

Sub Sector: Transport

**Government Contracting Agency**: National Highway Authority (NHA)

Contact Person: Dr. Iftikhar Mehboob. mehboob.iftikhar@gmail.com; Aatif Umer, BOI

aatifumar@invest.gov.pk

**Estimated Concession Period**: 25 years

**Business Opportunity:** Construction Industry Growth; Consultancy Firm's (Engineering, Financial, and Legal) to flourish; Service Area Industry (Hoteling Industry, Trucking Stations, Fueling Stations, etc.)

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Potentially guaranteed by Government Subsidy in the form of Viability Gap Fund (VGF)

#### **Implementation Schedule:**

1. Preparation : 2020 - 2021
 2. Land Acquisition : Dec-2021
 3. Construction : 2022-2023
 4. Operation : Jan-2024

### **Social Impact Outcomes of the Project**

Outcome 1: Industrial cities like Sialkot, Gujrat, and Wazirabad with high-speed connectivity. Will also reduce migration pressure to large cities.

Outcomes 2: Thousands of jobs will be created allied with forty industries associated with the construction of road.

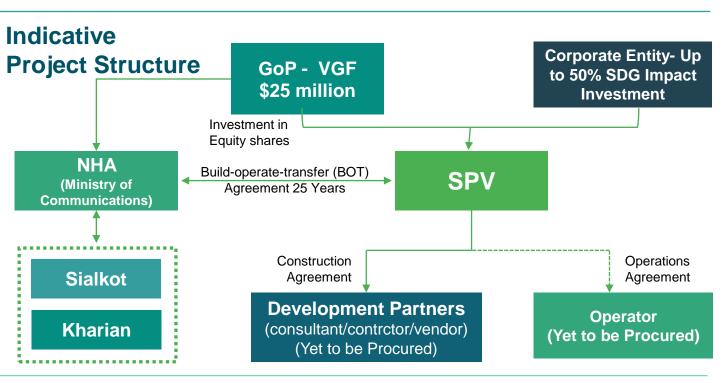
# Project 1 SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE I

Corporate Structure of the Project Special Purpose Vehicle (SPV)

Estimated Project Cost : \$ 290 million (Approx)

**Financial Feasibility:** 

Equity IRR : 17% Project IRR : 14%





### Project 1

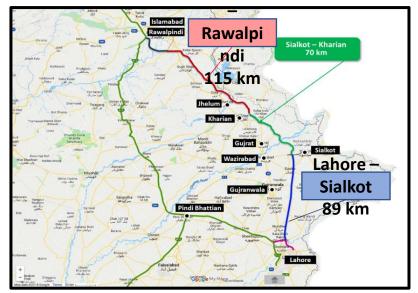
### SIALKOT-KHARIAN-RAWALPINDI MOTORWAY –PHASE II







### Project Location Map Kharian



#### **Description:**

This Phase-II of the project is designed with a total length of 115 km. The basic design and commercial feasibility study is in progress. The project will be extension of 4-lane Sialkot-Kharian Motorway which is under procurement. The construction of Kharian-Rawalpindi section shall complete the Lahore-Sialkot-Kharian-Rawalpindi Motorway network. It will be a major initiative to connect SME hubs for job creation and productivity enhancement.

**Sector:** Communication

Sub Sector: Transport

**Government Contracting Agency:** National Highway Authority (NHA)

Contact Person: Dr. Iftikhar Mehboob. mehboob.iftikhar@gmail.com; Aatif Umer, BOI

aatifumar@invest.gov.pk

Estimated Concession Period: 25 years

**Business Opportunity:** Construction Industry Growth; Consultancy Firm's (Engineering, Financial, and Legal) to flourish; Service Area Industry (Hoteling Industry, Trucking Stations, Fueling Stations, etc.)

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Potentially guaranteed by Government Subsidy in the form of VGF

#### **Implementation Schedule:**

1. Preparation : 2020 - 2021

2. Land Acquisition : 2022

3. Construction : 2022-2024

4. Operation : Jan-2025

### Social Impact Outcomes of the Project

Outcome 1: Connectivity with impoverished areas. Deprived regions will be connected. Will reduce pressure on urban migration.

Outcomes 2: Thousands of jobs will be created allied with forty industries associated with the construction of road.

# Project 1 SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE II

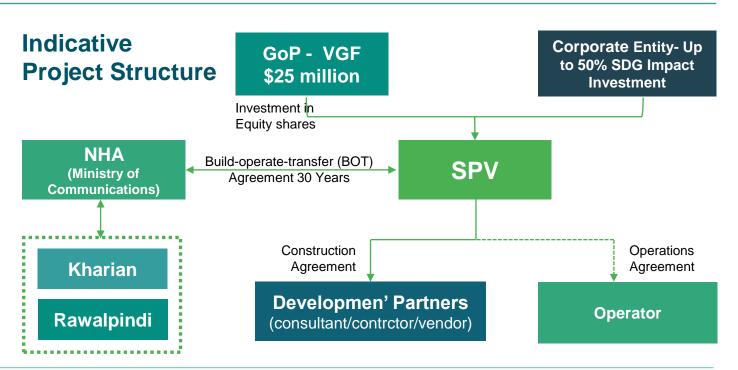
Corporate Structure of the Project Special Purpose Vehicle (SPV)

Estimated Project Cost: \$ 1,155.6 million

**Financial Feasibility:** 

Equity IRR : 17% (financial feasibility is finalized)

Project IRR: 14%





# Project 2 188 MW NARAN HYDROPOWER PROJECT

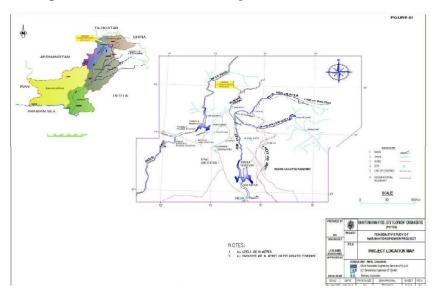




**Sub Sector:** Construction



### **Project Location Map**



#### **Description:**

The feasibility study has resulted in a project size of 188 MW with a good economic rate of return. Naran dam and powerhouse have been, proposed in the river stretch between Kaghan and Batakundi on Kunhar River. The dam site on Kunhar River is 12 km upstream of major tourist city of Naran. The powerhouse is to be located on the left bank of Kunhar River, 11 km downstream of Naran town. IFC has been appointed as the Transaction Manager.

**Sector:** Clean Energy

**Government Contracting Agency:** Pakhtunkhwa Energy Development Organization, Energy & Power Department, GoKP. Contact Person: Mr. Muhammad Mazahir Ali.

kpprojects@kpboit.gov.pk; Aatif Umer, BOI aatifumar@invest.gov.pk

**Estimated Construction Period**: 7 years

Business Opportunity: Available for investment in PPP mode after International Competitive Bidding (ICB)

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Potentially guaranteed by Federal Government Agency.

#### **Implementation Schedule:**

1. Preparation : 2021-2022 2. Land Acquisition : 2023-2024 3. Construction 2024-2028

4. Operation : 2028

#### **Social Impact Outcomes of the Project**

Outcome 1: Several number of new businesses will be generated. Provision of low-cost clean energy.

Outcomes 2: A greater number of jobs will be created both during implementation and operation phases. Reduction in carbon emissions.

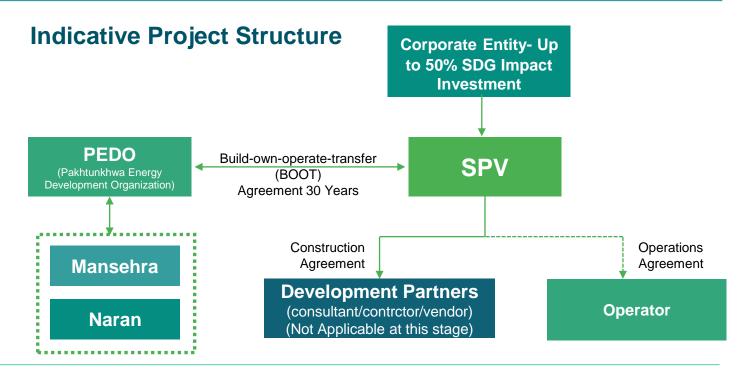
# Project 2 188 MW NARAN HYDROPOWER PROJECT

Corporate Structure of the Project Special Purpose Vehicle (SPV)

**Estimated Project Cost: \$ 431 million** 

**Financial Feasibility:** 

FIRR : 7.05%





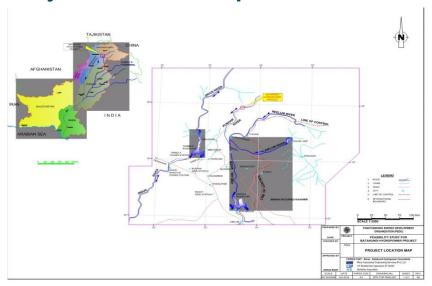
### Project 3 96 MW BATAKUNDI HYDROPOWER PROJECT







#### **Project Location Map**



#### **Description:**

The feasibility study has resulted in a project size of 96 MW with good economic rate of return. The Batakundi HPP is proposed to be located on Kunhar River, with its powerhouse located about 01 km downstream of Batakundi Village, which falls in District Mansehra of KP Province. The project area is accessible by road from Rawalpindi / Islamabad through Abbotabad, Mansehra and Balakot. IFC has been appointed as Transaction Manager.

Sector: Clean Energy

Sub Sector: Construction

**Government Contracting Agency:** Pakhtunkhwa Energy Development Organization, Energy & Power Department, GoKP. Contact Person: Mr. Muhammad Mazahir Ali.

kpprojects@kpboit.gov.pk; Aatif Umer, BOI aatifumar@invest.gov.pk

**Estimated Construction Period**: 7 years

**Business Opportunity:** Available for investment in PPP mode after International Competitive Bidding (ICB)

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Potentially guaranteed by Federal Government Agency.

#### **Implementation Schedule:**

1. Preparation : 2021 - 2022
 2. Land Acquisition : 2023-2024
 3. Construction : 2024-2028
 4. Operation : 2028

### **Social Impact Outcomes of the Project**

Outcome 1: Several number of new businesses will be generated. Provision of low-cost clean energy.

Outcomes 2: A greater number of jobs will be created both during implementation and operation phases. Reduction in carbon emissions.

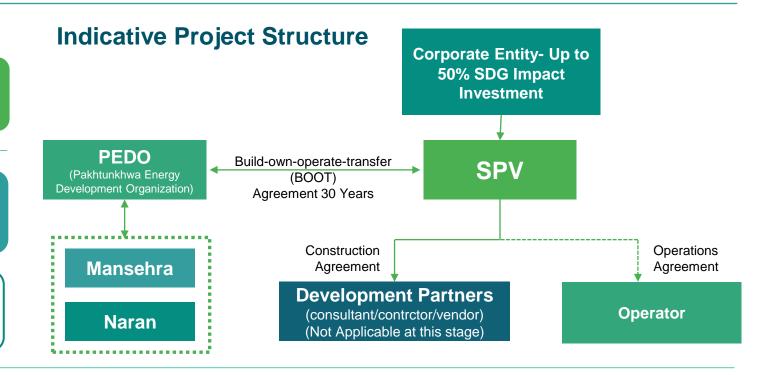
### Project 3 96 MW BATAKUNDI HYDROPOWER PROJECT

Corporate Structure of the Project Special Purpose Vehicle (SPV)

Estimated Project Cost: \$ 188.29 million

**Financial Feasibility:** 

FIRR : 10.87%





### Project 4

## MEDICAL DEVICES DEVELOPMENT CENTER



**Sub Sector:** Medical Equipment

### **Project Location**



#### **Description:**

N-ovative Health Technologies (previously named as MDDC) is a public sector company established at National University of Sciences and Technology (NUST) under the special directives of Prime Minister's Office. The company is looking to expand and scale up operations. It is currently producing Low-cost treatment solution for the patients suffering from Heart (cardiac) diseases.

**Sector:** Healthcare

**Government Contracting Agency:** Ministry of Science and Technology & NUST Contact Person: Mr. Hamza Haroon. hamza.a.haroon@gmail.com; Aatif Umer, BOI

aatifumar@invest.gov.pk

**Estimated Construction Period**: 1 year

**Business Opportunity:** Work on ventilators, syringe pumps, dialysis machine, patient monitors, cathedrals. Immediate expansion of 3 products scaling up to 10 products in next two years.

Project Status: Project is currently producing small scale devices such as stents

#### **Indicative Government Support & Guarantee:**

Supported by Ministry of Science and facility

European commission certified and DRAP licensed production facility for medical devices

#### Implementation Schedule:

1. Preparation : 2021

2. Construction : 2021-2022

3. Operation : 2022

### **Social Impact Outcomes of the Project**

Outcome 1: Availability of cost-effective healthcare services in Pakistan.

Outcomes 2: Reduction in import bill and job opportunities in the healthcare sector. Contribution to Post-COVID healthcare provision.

### Project 4 MEDICAL DEVICES DEVELOPMENT CENTER

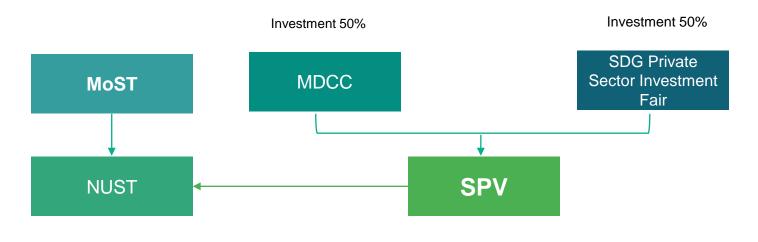
#### **Indicative Project Structure**

Corporate Structure of the Project
Public Sector For Profit Company looking to
Expand

Estimated Project Cost: \$ 2.31 million

**Financial Feasibility:** 

FIRR : 7.1%





## **Project 5**

# SILICON SOLAR PV PANEL FABRICATION FACILITY (500 MW/ANNUM)











### **Project Location Map**



**Description:** 

Pakistan is importing more than 3000MW PV panels/annum. The demand of PV panels is increasing exponentially. It is estimated that 2900 GW of electricity can be generated in Pakistan using day light hours. Pakistan being the sunbelt country will be one of the largest consumers of PV panels. Importing huge quantity of PV panels is already consuming substantial amount of foreign exchange which is surely expected to increase tremendously in near future. In view of above local manufacturing of PV panels is direly needed.

**Sector:** Renewable Energy

Sub Sector: Solar Photovoltaics

**Government Contracting Agency:** Pakistan Council of Renewable Energy Technologies Dr. Afzal Hussain Kamboh. Afzal8isb@yahoo.com; Aatif Umer, BOI aatifumar@invest.gov.pk

**Estimated Construction Period**: 2 years

Business Opportunity: B2B Model.

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Potentially guaranteed by Ministry of Science & Technology

#### Implementation Schedule:

Preparation : 2021 - 2022
 Land Acquisition : 2022-2023
 Construction : Jan 2024

4. Operation : After Construction

### Social Impact Outcomes of the Project

Outcome 1: Major contribution towards affordable renewable energy. Import substitution.

Outcomes 2: Reduced carbon emission, job creation, climate change risk mitigation.

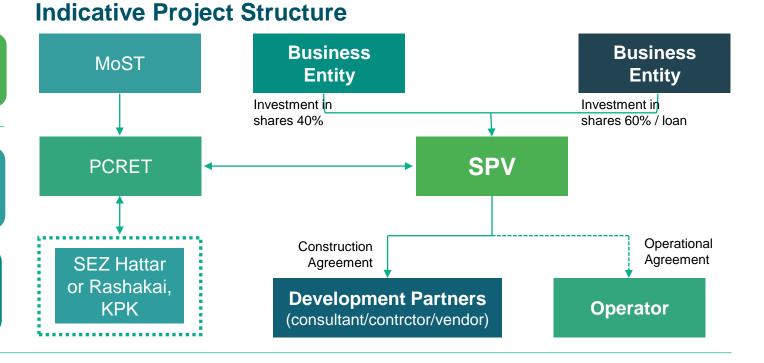
# Project 5 SILICON SOLAR PV PANEL FABRICATION FACILITY (500 MW/ANNUM)

Corporate Structure of the Project (B2B Model)

**Estimated Project Cost: \$ 19.21 million** 

**Financial Feasibility:** 

**IRR:** 12.20%



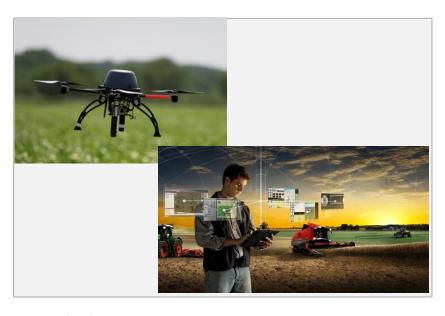


# Project 6 PRODUCTION OF AGRICULTURE DRONES & 250 SMART FARMS









**Description:** 

Global Drone Technology is growing at a rate of over 20% and is expected to double in the next 5-7 year. Pakistan, an agricultural country, can greatly benefit from this technology specifically as it implements technology towards farming. Smart Farms is the future of farming which allows on average 10X yield generation with efficient utilization of land. Smart farms incorporate latest technologies like Drone technologies and sensors to increase yield, safer production and efficient utilization of resources.

**Sector:** Agriculture and Food Technology.

**Sub-Sector:** Drone Technology

**Government Contracting Agency:** Ministry of Science and Technology, Private Sector. Contact Person: Hamza Haroon. <a href="mailto:hamza.a.haroon@gmail.com">hamza.a.haroon@gmail.com</a> ; Aatif Umer, BOI aatifumar@invest.gov.pk

Estimated Construction Period: 3 years

**Business Opportunity:** To build A comprehensive collection of interoperable technologies for farm-level precision agriculture methods comprising:

- Multi-rotor, Hybrid & Fixed Wing Unmanned Aerial Systems (UAS)
- Array of Imaging Sensors
- High Performance & Cloud Computing (HPCC)
- 250 Smart Farms across Pakistan that venture in high demand crop using optimized technology

Project Status: Feasibility completed. Looking for financial close.

#### **Indicative Government Support & Guarantee:**

Facilitated by Ministry of Science and Technology

#### Implementation Schedule:

1. Preparation : 2021-20222. Facility construction : 2022-20233. Operation : 2023 -beyond

### **Social Impact Outcomes of the Project**

Outcome 1: Improved productivity in agriculture sector. Contribution towards food security.

Outcomes 2: Direct impact on rural poverty reduction through higher yields and job opportunities.

# Project 6 PRODUCTION OF AGRICULTURE DRONES & 250 SMART FARMS

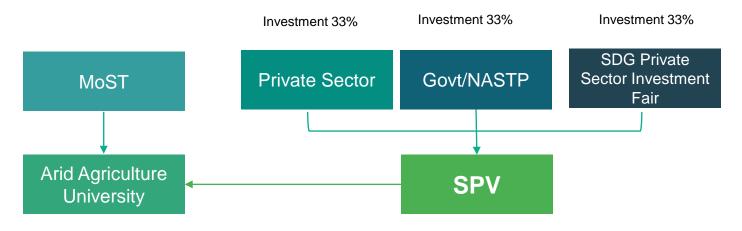
Corporate Structure of the Project Public Private Partnership.

**Estimated Project Cost:** \$ 58.1 million

**Financial Feasibility:** 

FIRR : 23.19%

### **Indicative Project Structure**





### Project 7 NED TECHNOLOGY PARK







### **Project Location Map**



#### **Description:**

NED Interregional Technology Park (ITP) will be the first fully integrated Science and Technology Park of Pakistan to be established within the premises of NED University Karachi under Public Private Partnership model. The initiative is meticulously aimed at redesigning the knowledge economy by stimulating and nurturing innovation-led germination and growth of hitech entities. Interregional Technology Park (ITP) will be the new national tech-pad where entrepreneurs and multinationals will come together to discover, ideate, create, collaborate and break new ground.

**Sector:** Technology development

Sub Sector: IT & Engineering

**Government Contracting Agency:** NED University of Engineering & Technology, Karachi. Contact Person: Dr. Asad Arfeen. <a href="mailto:arfeen@neduet.edu.pk">arfeen@neduet.edu.pk</a>; Aatif Umer, BOI

aatifumar@invest.gov.pk

**Estimated Concession Period**: 20 years

Business Opportunity: Bidder/Financer under Public Private Partnership

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

Partially supported by Government of Sindh with logistical support from International Association of Science Parks & Areas of Innovation (IASP) Spain.

#### Implementation Schedule:

1. Preparation : 2019-20202. Land Acquisition : own land3. Construction : 2021-20234. Operation : Dec 2023

### Social Impact Outcomes of the Project

Outcome 1: 200 new business opportunities. Major contribution in productivity enhancement through technology.

Outcomes 2: 4000 new jobs will be created. Digital adoption facilitation through university industry linkage.

### Project 7 NED TECHNOLOGY PARK

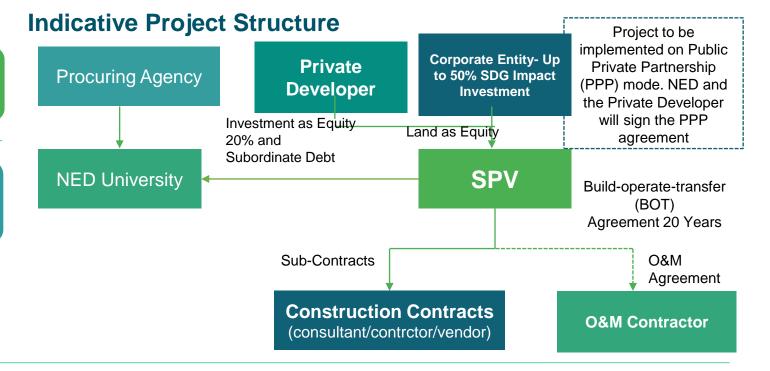
Corporate Structure of the Project Special Purpose Vehicle (SPV)

**Estimated Project Cost: \$ 55.74 million** 

**Financial Feasibility:** 

FIRR : 15% approx

NPV : N/A





### **Project 8**

## STARTUP INCUBATIONS ACROSS PAKISTAN









**Description:** 

National Incubation Center is a joint venture of Government of Pakistan and major corporate entities. NIC is currently running five start-up facilities in all provinces of Pakistan. Each facility hosts 50 start-up tech companies. Siting the impact of ongoing projects under national incubation center, the Ministry of Information Technology has decided a major expansion for establishing innovation ecosystems and themed incubators across twenty locations in the country. This project is making huge contribution towards youth employment and technology innovation in Pakistan.

**Sector:** Information Technology Entrepreneurship

**Sub Sector:** 

Government Contracting Agency: National Incubation Center, Islamabad.

Contact person: Muhammad Saleem Ranjha. saleemranjha@yahoo.com; Aatif Umer,

BOI aatifumar@invest.gov.pk

Estimated Concession Period: 18 months

Business Opportunity: Developing Pakistan's Startup Ecosystem

Project Status: Project is currently on Request For Proposal phase

#### **Indicative Government Support & Guarantee:**

N/A

#### **Implementation Schedule:**

1. Preparation : 2021

2. Venue Acquisition : 2021-2022

3. Renovation : 2022

4. Operation : Dec 2022

Social Impact Outcomes of the Project Outcome 1: Incubating and supporting 500 startups per annum. Promoting digital connectivity and innovation.

Outcomes 2: Creating 100,000 jobs across the span of the project through the companies.

### Project 8 STARTUP INCUBATIONS ACROSS PAKISTAN

#### **Indicative Project Structure**

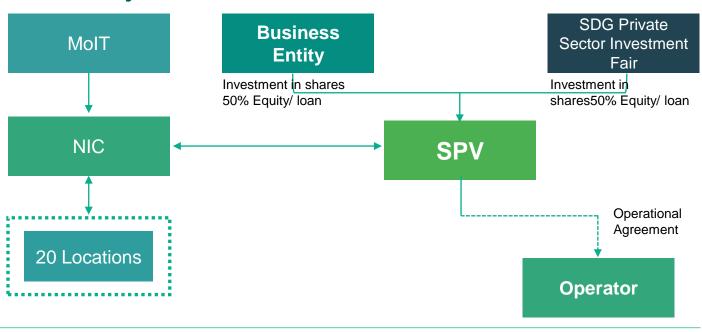
Corporate Structure of the Project Relevant Government Ministry and Private Company

**Estimated Project Cost:** \$ 120 million

#### **Financial Feasibility:**

FIRR : 14% (for current incubation centers)

NPV : N/A





### Thank you

### Q&A

## Project 1 SIALKOT-KHARIAN-RAWALPINDI MOTORWAY -PHASE I

Component of the project	Investment cost \$ Million	
Project preparation		
Land acquisition	25.70	
Construction	225	
Project management		
Interest	11.50	
Total	290.00	

### Project 4 MEDICAL DEVICES DEVELOPMENT CENTER

Component of the project	Investment cost \$
Civil Works	402,077
Furnishing	12,903
Cleanrooms Class 10,000	19,355
Manufacturing Equipment	589,935
Testing and Validation	120,000
Certification	38,710
Hardware	22,581
Honorarium	6,452
Operational Cost	456,516
Vehicle	19,355
Backup Generator	16,129
Hardware/Others	6,452
Clinical trials	335,484
Misc.	90,323
Total	2,136,271

# Project 5 SILICON SOLAR PV PANEL FABRICATION FACILITY (500 MW/ANNUM)

Component of the project	Investment cost \$ million
Project preparation	1.10
Land acquisition	22 (lease period 99 years)
Construction	16.77
Project management	1.29
Interest	0.05
Total	19.21

# Project 6 PRODUCTION OF AGRICULTURE DRONES & 250 SMART FARMS

Component of the project	Investment cost \$ million
AgriVerse Hardware & Software Infrastructure	3.50
Unmanned Aerial Systems for Precision Agriculture	1.80
Indigenous Development of a Synthetic Aperture Radar	1.70
UAS Airspace Management Solution	0.50
GreenAI - Software Ecosystem & Sensor Suite	1.00
Soil Microbes, Nano Fertilizers, Bio- Pesticides	3.50
High Performance Cloud Computing (HPCC)	2.5
250 Hydroponic Farms	43.5
Total	58.04

### Project 7 NED TECHNOLOGY PARK

Component of the project	Investment cost \$ million	
Project preparation	0.74	
Land acquisition	0	
Construction	55	
Project management	N/A	
Interest	N/A	
Total	55.74	

### Project 8 STARTUP INCUBATIONS ACROSS PAKISTAN

Component of the project	Investment cost \$ million	
Venue Acquisition	Ministry/STZA to Support	
Renovation	40	
Operations	60	
Misc.	20	
Total	120	