



# IndiGrid

## INVESTOR PRESENTATION FY20 RESULTS



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# INVESTOR PRESENTATION FY20

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**OUR VISION AND  
JOURNEY...**



## OUR VISION

*To become the most admired yield vehicle in Asia*

### Focused Business Model

- Long term contracts
- Low operating risks
- Stable cash flows

### Value Accretive Growth

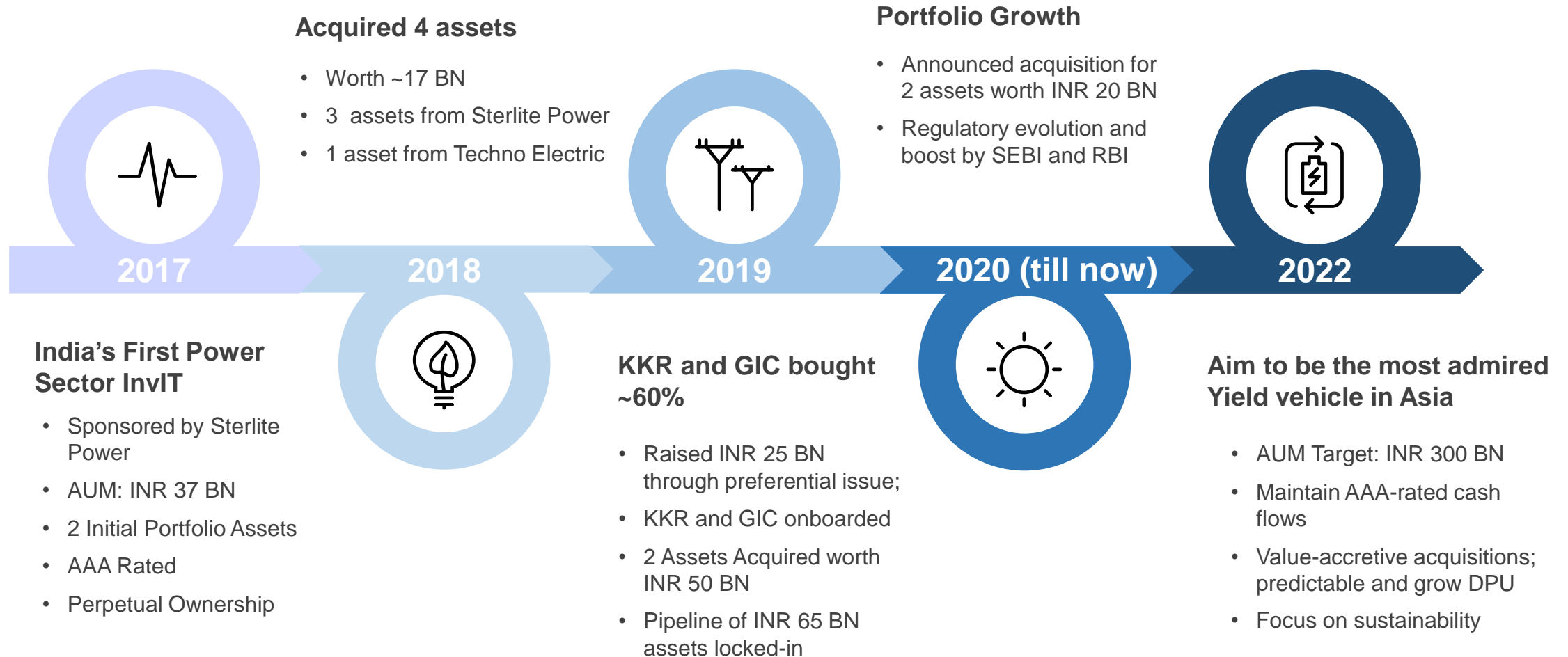
- DPU accretive acquisitions Y-o-Y
- Creating growth pipeline for future

### Predictable Distribution

- Quarterly distribution
- Minimum 90% of Net cash flow distributed
- Sustainable distributions

### Optimal Capital Structure

- Cap on leverage at 70%
- AAA rating; prudent liability management
- Well capitalized



# KEY HIGHLIGHTS FY20



## Portfolio Growth

- Acquisition of INR 62 Bn of Assets – NRSS, OGPTL and ENICL – more than doubling the AUM
- EBITDA and NDCF doubled with over 60% CAGR since listing
- Additional pipeline of INR 65 Bn secured for further growth
- IIM Ahmedabad issued a case study on “*Building India’s first power transmission yield platform*”

## Marquee Sponsorship

- Raised INR 25.1 Bn via first preference issue by any InvIT; creating headroom to grow up to INR 18.0 Bn. It was awarded Deal of the year by *Infrastructure Investor*
- Issue was supported by marquee investors like KKR and GIC with KKR also applying to become sponsor of IndiGrid
- KKR also acquired majority interest in the Investment Manager

## Regulatory Evolution

- Higher leverage up to 70% allowed by SEBI which would enable in better accretion
- Reduced minimum trading lot size to 1 Lac – resulting in better liquidity for units
- Rights issue guidelines published which would enable efficient capital raising for InvITs
- RBI allowed banks to lend to InvITs

## Robust Asset Management

- > 99.5% availability across portfolio
- 50+ operations team built across functions with focus on sustainable operations
- ESG initiatives kicked off
- Long term reliability focused asset management framework launched

**~24%**  
Total Return\*

**INR 12**  
DPU – FY20

**~116%**  
Growth in NDCF\*\*

**INR 65 Bn**  
Growth Pipeline



# INDIGRID OVERVIEW



# IndiGrid – India’s Only Power Transmission Yield Platform



**INR 120  
Bn\* AUM**

**20 LINES  
5,800 CKMS**

**AAA RATED  
PERPETUAL OWNERSHIP**

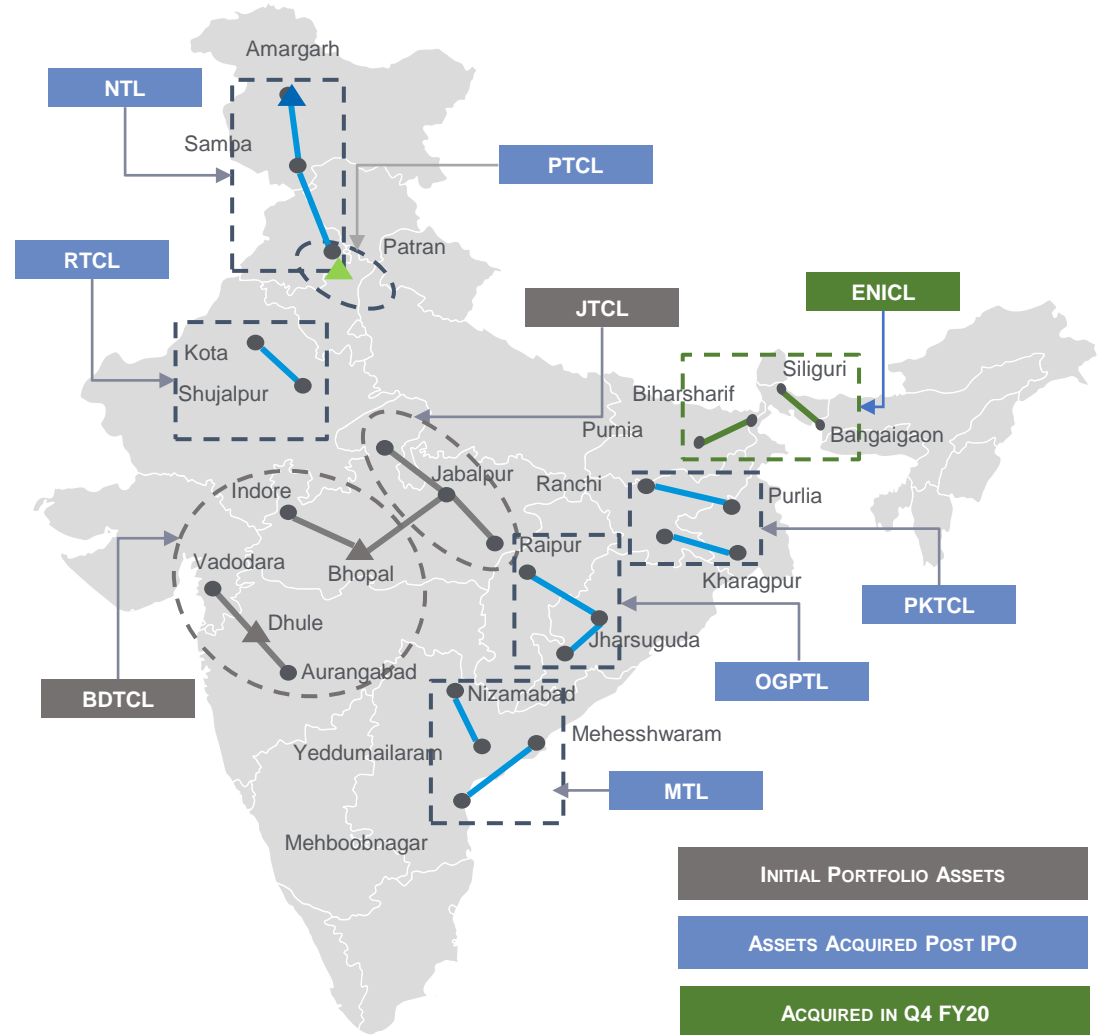
**9,177  
TOWERS**

**13 STATES  
ACROSS INDIA**

**4 SUBSTATIONS  
7,735 MVA**

**~32 YEARS  
RESIDUAL CONTRACT**

**3,43,000 MT  
STEEL AND ALUMINUM**



*\*based on independent valuation report as of For FY 20  
#Remaining TSA contractual life of 32 years. However, the projects are on BOOM model with perpetual ownership of IndiGrid;  
ENICL has a TSA term of 25 years from the Licence Date*

High voltage Inter-state assets, all with Central counterparty - PGCIL;

Availability based monthly Tariff – No linkage to power flow and reset of tariff

Well diversified with 22 – revenue generating elements across 13 states

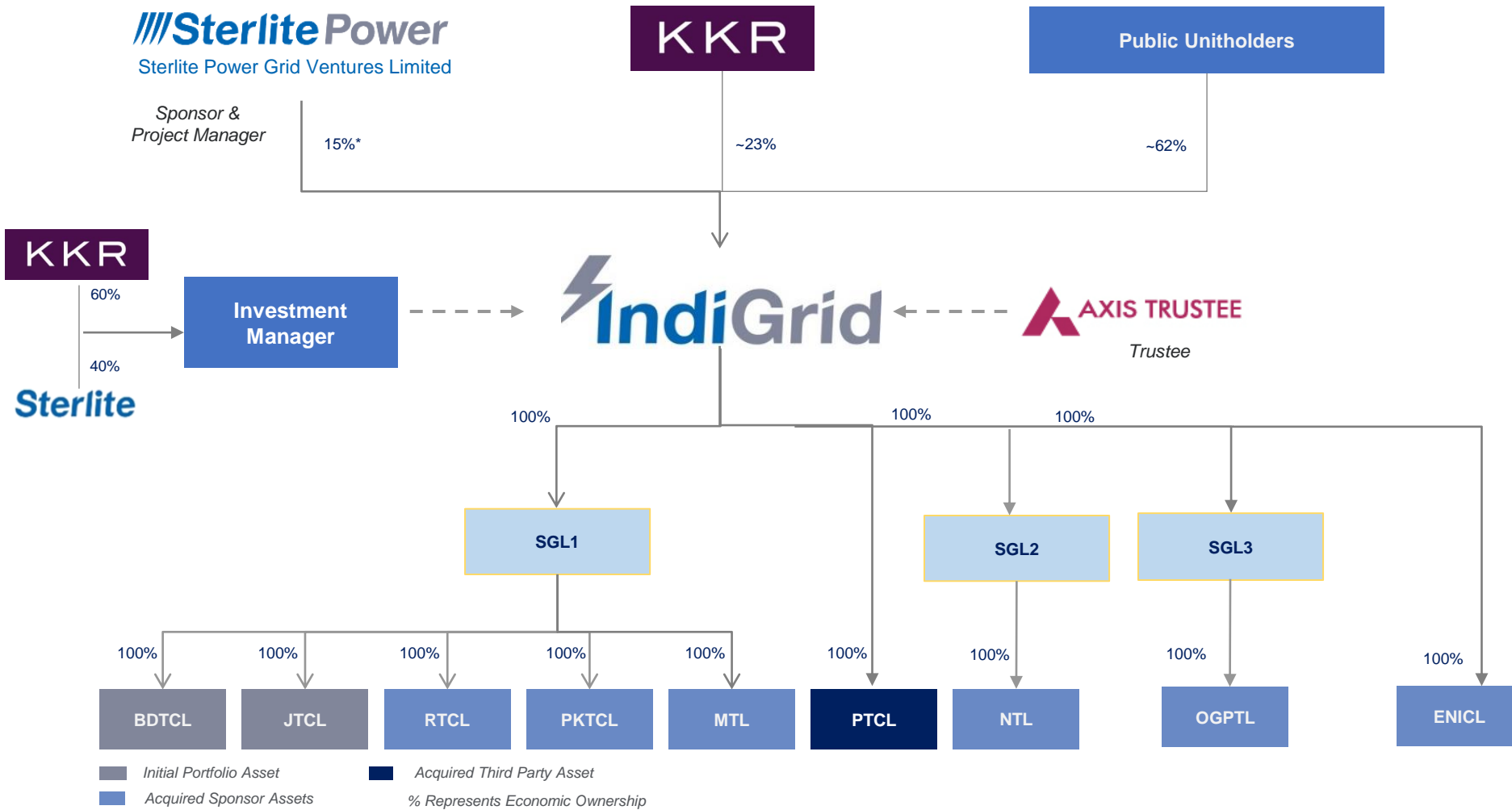
Build Own Operate and Maintain (BOOM) – No Transfer

Credible track record of maximizing availability and incentives



Assets	States	Specifications	CoD	Availability Since CoD	Revenue Weight	AUM in INR Bn	Metal Quantity ('000 Metric Ton)
BDTCL	Madhya Pradesh, Maharashtra, Gujarat	6 Lines – 945 ckms 2 Sub Stations – 6,000 MVA	Jun-2015	99.72%	18%	18.6	Steel – 50.9; Al – 21.5
JTCL	Madhya Pradesh, Chhattisgarh	2 Lines – 992 ckms	Sep-2015	99.55%	10%	14.4	Steel – 60.0; Al – 21.7
RTCL	Madhya Pradesh, Rajasthan	1 Line – 403 ckms	Mar-2016	99.84%	3%	4.0	Steel – 7.0; Al – 3.6
PKTCL	West Bengal, Jharkhand	2 Lines – 545 ckms	Jan-2017	99.84%	5%	6.5	Steel – 11.0; Al – 4.8
MTL	Telangana	2 Lines – 477 ckms	Dec-2017	99.90%	4%	5.4	Steel – 9.5; Al – 4.2
PTCL	Punjab	1 Sub Station – 1000 MVA	Nov-2016	99.88%	2%	2.4	NA
NRSS	Punjab, Jammu & Kashmir	3 Lines – 830 ckms 1 Sub Station – 735 MVA	Sep-2018	99.67%	36%	43.9	Steel – 32.1; Al – 7.7
OGPTL	Odisha, Chhattisgarh	2 Lines – 711 ckms	Apr-2019	99.92%	11%	14.1	Steel – 43.0; Al – 13.3
ENICL*	Assam, Bihar, West Bengal	2 Lines – 909 ckms	Nov-2014	99.56%	10%	10.9	Steel – 37.8; Al – 15.7
<b>9 SPVs</b>	<b>13 States</b>	<b>~5,800 ckms and 7,735 MVA</b>	<b>&gt; 3 years</b>		<b>100%</b>	<b>120.1</b>	<b>Steel 251,000 MT Aluminium 93,000 MT</b>

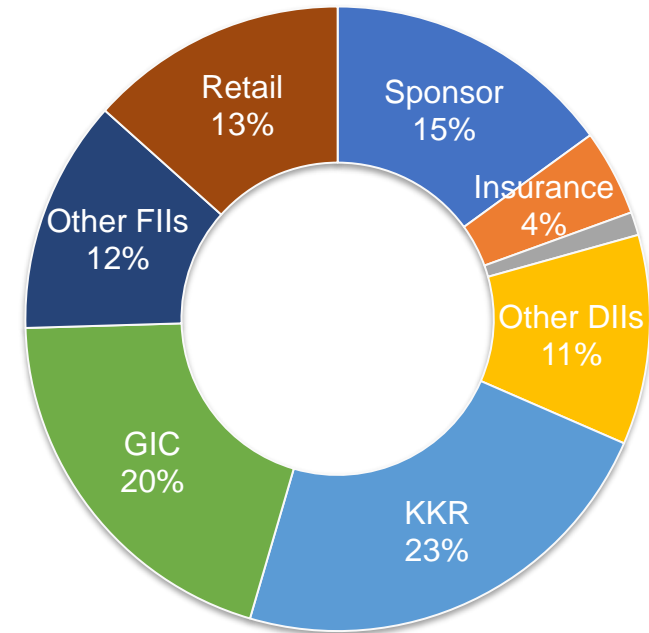
\*ENICL was acquired in Mar-20;



\*Sterlite Power intends to sell its 15% stake to KKR – post KKR being designated as an additional Sponsor (subject to SEBI approval)

SGL1 = Sterlite Grid 1 Limited, SGL2 = Sterlite Grid 2 Limited, SGL3 = Sterlite Grid 3 Limited, BDTCL = Bhopal Dhule Transmission Company Limited, JTCL = Jabalpur Transmission Company Limited, RTCL = RAPP Transmission Company Limited, PKTCL = Purulia & Kharagpur Transmission Company Limited, MTL = Maheshwaram Transmission Limited, PTCL = Patran Transmission Company Limited, NTL = NRSS XXIX Transmission Limited, OGPTL = Odisha Generation Phase II Transmission Limited

- Supported by marquee long term investor base
- > 55% owned by FIIs including KKR and GIC
- > 15% owned by DIIs including insurance companies, mutual funds, pension fund and corporates
- Value and number of retail investors have doubled since listing in 2017



# INDUSTRY OUTLOOK



## Significant shift In supply / demand patterns

- Increase in generation capacity from renewable energy sources and grid parity for Renewable Energy projects
- Significant load shift with electric vehicles, storage, rural electrification and other transformation on demand side
- Focus on Grid reliability will increase with more Renewable capacity

## Robust regulatory framework and Policy support

- Amendment of Electricity Act capturing crucial reform measures with efficient dispute resolution, payment security mechanisms, direct transfer of subsidies, encouraging more renewable etc.
- Focus on private sector participation
- New tariff policy focusing on streamlining change in law processes, incentivizing efficiencies for DISCOMs and penalizing underperformance
- Liquidity support during COVID 19



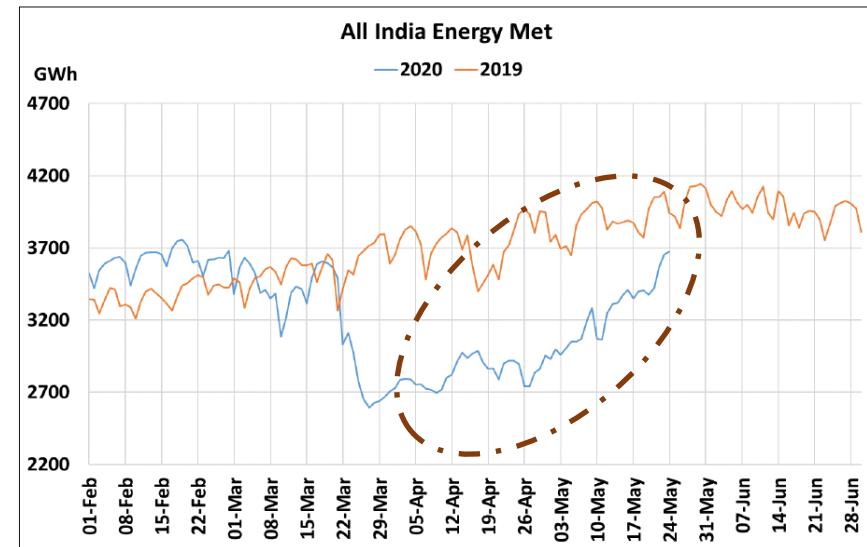
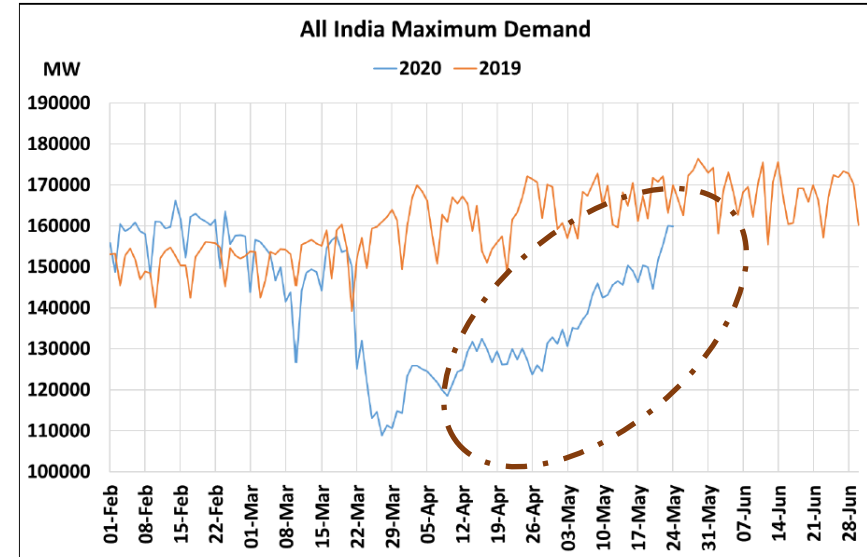
## Investment boost for transmission

- To enable robust and efficient grid to cater need to increasing capacity
- Historical underinvestment in transmission relation to generation would ensure substantial incremental investment happens in transmission to better utilize existing generation capacity
- Transmission ranks first in CRISIL's InfraInvex 2019
- ~ 15,000 Cr of Bids in H1FY21 itself

## Structural policy, measures

- Electrification in the country is increasing with the support of schemes like
- *Deen Dayal Upadhyay Gram Jyoti Yojana (DDUGJY) – Focus on Rural electrification*
- *Ujwal Discom Assurance Yojna (UDAY) – Improving Financial Health of Discoms*
- *Integrated Power Development Scheme (IPDS) – Strengthening sub - distribution*

- Transmission tariff are not linked to power flow and only based on availability of transmission elements.
- Ministry of power issued several circulars and direction during the COVID period.
  - ✓ No moratorium on transmission charges
  - ✓ Only reduction of Late payment surcharge till 31st May 2020 from 18% per annum to 12% per annum for any payments beyond 45 days
  - ✓ Electric transmission utilities are declared Essential services and appropriate support was extended for monitoring and maintenance across the country
- Additionally, the government announced INR 90,000 crore liquidity injection into electricity distribution companies as part of a stimulus package to clear dues of generation and transmission utilities
- This one-time liquidity infusion will be used to pay the public sector generation firms, transmission companies, independent power producers and renewable energy generators
- Power demand slowed down due to low industrial activity during lockdown i.e. Mar-20 to May-20. However, we have seen a sharp rise in May and believe that would normalize once the Government lifts lockdown

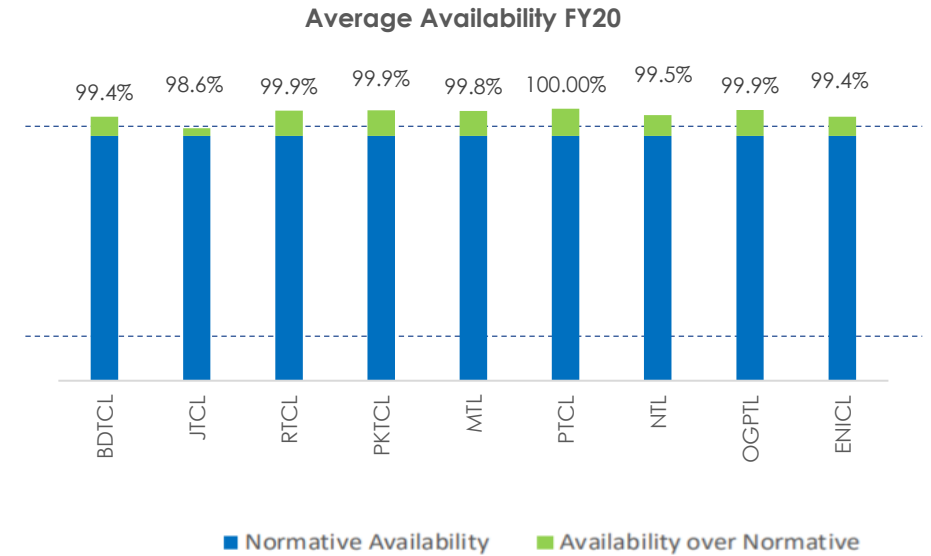




# OPERATIONAL HIGHLIGHTS



- Achieved 100% Safe Man-hours
- Consistent track record of maintaining superior availability and maximize incentives – Average availability of > 99.6%
- Trips / Line at 0.4 ; in line with industry standards
- Focus on reliability centered maintenance with rigorous preventive inspection and maintenance, defect correction and life cycle management
- Early investment in technology initiatives across drone-based inspection, weather prediction tools and Helicopter based supervision for difficult terrains
- Restored lines across three emergency shutdowns caused by events beyond control e.g. wind-storms and obtained majority of lost time as deemed available under force majeure



Key Indicators	FY19	FY20
Avg. Portfolio availability (%)	>99.5%	>99.5%
No. of Trips / Line	0.48	0.40
Safe Man Work Hours	100%	100%
Loss Time Incident reporting	-	-
Near Miss reporting	15	88
Solar Generation (kWh)	42,423	39,870



## Heli Survey



- Helicopter surveys to access snow bound and difficult terrain and monitor the health of the line
- Avalanche Risk Assessment
- Quick Emergency Readiness and Response management

Deployed in NRSS in Nov'19



## Weather Prediction

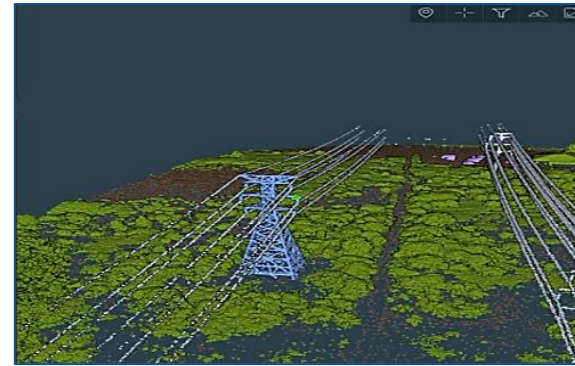


- Weather prediction to enable emergency readiness
- Enable decision making to get ready for climate change risk mitigation
- Also acts as micro-site level data for basis for insurance claim if required

Partnered with Climacell©



## Drone (POC)

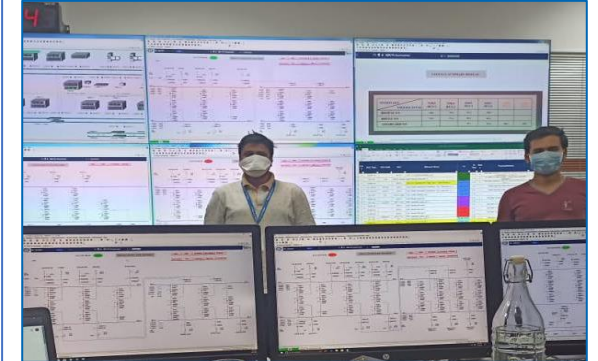


- Aerial Survey to ensure Inspection continuity
- Effective Vegetation Management to reduce trips
- At POC stage
- Enabling image analytics with Thermal & LIDR Technology

Effective Inspections and productivity



## Digital Asset Management

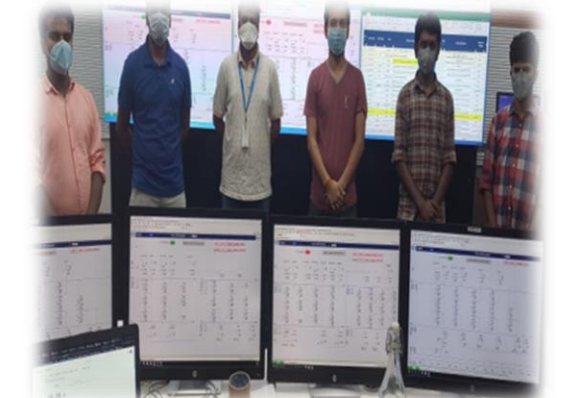


- Central control room for entire portfolio at Bhopal Substation
- Asset Performance & Life Cycle Optimization
- Further investment in digital platforms for field force management

DAM to be deployed

# Operational Highlights – Covid 19 readiness

- “ZERO” - COVID infections (YTD) for ~ 600 people across sites
- People safety & Asset Reliability are key priorities during this period
  - ✓ Compliance to internal and government advisories.
  - ✓ Strict monitoring and control on Personal Hygiene, Workplace sanitization, Temperature monitoring, PPE compliance, Social Distancing and Vehicle/Driver Sanitization
  - ✓ Strong collaboration with local administration
  - ✓ Frequent sensitization from leadership teams with field teams
- Power Transmission classified as an “Essential Service” and thus 24x7 sub station operations and all critical O&M activities were uninterrupted.
- 9 pm – 9 min PM call on 05<sup>th</sup> Apr 20 – Successfully achieved grid stability with robust planning.



- Sustainability is core focus for IndiGrid for creating long term value creation for its all stakeholders.
- IndiGrid has defined below key priorities related to sustainability to focus with respect to its business and materiality map of SASB:

- Environmental

- ✓ GHG Emissions
- ✓ Resource Management
- ✓ Environmental Policy and compliance

- Social

- ✓ Health & Safety
- ✓ Legal compliance
- ✓ Community Engagement

- Governance

- ✓ Corporate Governance
- ✓ Business Ethics
- ✓ Critical risk management



- **GHG emissions:**

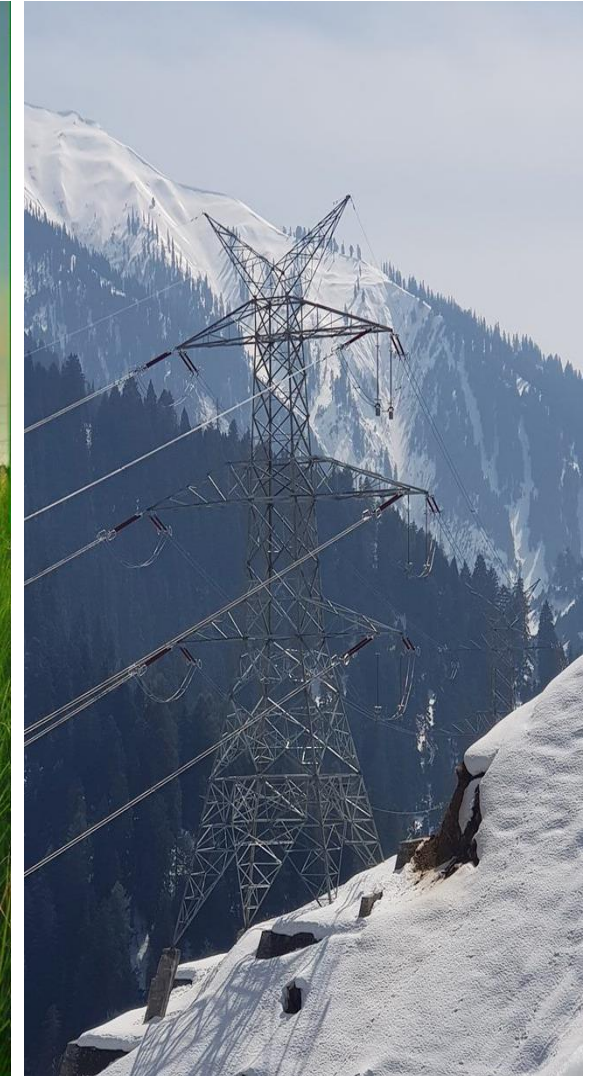
- ✓ We generated 129,880 kWh units (till Mar-20) from our roof top solar power plant at Bhopal and Dhule substation used for auxiliary consumption resulting in CO<sub>2</sub> avoidance of total 109 tons.
- ✓ SF6 a potent GHG used in circuit breakers is arrested through systematic monitoring and immediate action.
- ✓ We operate extra high voltage (EHV) lines at 400 KV and 765 KV which enables reduction in emissions by way of reducing losses

- **Resource Management:**

- ✓ Tree plantation carried out in lieu of vegetation management for the transmission lines.
- ✓ Several of our assets are built with Multi circuit towers, Pole towers and GIS substations which reduces our land foot-print and therefore impact on Land / ROW and trees.
- ✓ Cost of compensatory afforestation (CA), NPV, wild-life management plan, tree cutting cost, medicinal plantation cost and other expenditure on our portfolio is ~INR 2,900 Mn

- **Environment Policy and compliance:**

- ✓ Implementation of full compliance of Forest and wild-life rules across our portfolio
- ✓ 100% compliance to Hazardous Waste Disposal - Transformer oil & Electric waste



## Health & Safety:

- ✓ 100% Safe man working hours achieved. Behavior based safety enabled proactive closure of unsafe and near miss conditions.
- ✓ 100% of our contractors have received relevant health & safety training designed for their scope of work
- ✓ We continued to focus on aligning our practices with international standards. In FY 20 we launched new SOPs with respect to Permit to Work and other HSE SOPs with leading practices to ensure safety of every person in our portfolio
- ✓ 22,127 Man hours of training across employees and partners
- ✓ Especially with COVID 19, additional precautions are implemented with respect to social distancing as well as testing

## Legal Compliances:

- ✓ *Legatrix* – an IT enabled compliance tool is launched for automated monitoring and reporting of legal compliances across the portfolio

## Community Engagement:

- ✓ Our operations are across 13 states and we rely on support of local communities in enabling repairs and maintenance as and when required. We focus on active engagement to avoid ROW issues

Key Indicators	FY-19	FY-20
Unsafe conditions (Reported and Closed)	57	833
Near Miss (Reported and Closed)	15	88
No. of Fatalities	0	0
Loss Time Incident Hours	0	0
Safe Manhours Achieved (100%)	8,71,283	12,38,548
Trainings (Man-hours)	11,151	22,127





**Tarun Kataria**  
Independent Director

- Independent Non-Executive Director of Mapletree Logistics Trust Management and chairs Audit Committee of HSBC Bank (Singapore)
- Previously, served as CEO of Religare Capital Markets Limited, Managing Director and Head of Global banking and markets at HSBC India and Vice Chairman of HSBC Securities and Capital Markets Private Limited
- MBA in Finance from the Wharton School of the University of Pennsylvania



**Shashikant Bhojani**  
Independent Director

- Former Independent Director on the board of directors of L&T Infrastructure Finance Company Limited
- Former partner at Cyril Amarchand Mangaldas since 2001
- 28 years experience at ICICI Limited starting as law officer and reaching Board of Directors



**Rahul Asthana**  
Independent Director

- Independent Director on the board of directors of Mahindra Vehicles Manufacturing Ltd, Aegis Logistics, and NBS International
- Ex Chairman of Mumbai Trust and Maharashtra State Electricity Board
- Bachelor's degree from IIT Kanpur and MBA from ICPE University of Ljubljana, Slovenia



**Pratik Agarwal**  
Non-Executive Director

- Managing Director, Sterlite Power
- Extensive experience in building core infrastructure businesses in ports, power transmission and broadband
- Bachelor's degree from the Wharton Business School and MBA from the London Business School



**Sanjay Nayar**  
Non-Executive Director

- 34 years of experience and joined KKR in 2009 as a Member and CEO.
- Prior to joining KKR, he was CEO of Citigroup's Indian and South Asian operations and a member of Citigroup's Management Committee and Asia Executive Operating Committee.
- Bachelor's degree in Mechanical Engineering from Delhi University and is an MBA in Finance from the IIM Ahmedabad.



**Harsh Shah**  
CEO and Executive Director

- Extensive experience in Private Equity financing, M&A, infrastructure financing, regulatory and macro economic policy
- Worked with L&T, L&T Infrastructure Finance, P&G
- MBA from the National University of Singapore



## • Corporate Governance

- ✓ Regulated by SEBI InvIT Regulations having prudent governance measures around:
  - Interested unitholders are not permitted to participate in voting for material related party transactions
  - Borrowing limit up to 70% of AUM with other conditions like AAA rating, quarterly valuation and disclosures
- ✓ Well diversified board including three independent directors with varied expertise with majority representation by Independent members and majority investors of IndiGrid
- ✓ All Board committees are chaired by Independent board member
- ✓ Approval of investment committee with majority independent directors is mandatory for all acquisitions
- ✓ E-voting facility offered for all investors' approvals to encourage wider participation

## • Business Ethics:

- ✓ Code of conduct policy is adopted by the company and implemented across its operations.
- ✓ It covers anti bribery, anti corruption, prevention of money laundering, insider trading, as well as prevention of sexual harassment

## • Critical Risk Management:

- ✓ Robust internal audit framework implemented by KPMG ( Internal Auditor) with monthly and quarterly rigor across critical processes
- ✓ Enterprise Risk Management is conducted annually with implementation tracked across the year

## Participation in Committee Meetings and EGMs

Committee	Independent Members	Meetings in FY20	Participation
Audit	60%	6	100%
Nomination & Remuneration	50%	5	92%
Investment	60%	6	89%
Stakeholder Relationship	50%	4	100%
Risk Management	50%	2	100%
Allotment	50%	8	100%

EGM Matter	% Voting from Eligible investors	Positive Voting %
Acquisition of NRSS and OGPTL	81%	100%
Induction of Esoteric II as Sponsor	84%	100%
Change in Control of IM	84%	100%
Acquisition of ENICL	67%	100%
Change in Investment Mandate	75%	99%
Acquisition of GPTL	70%	100%

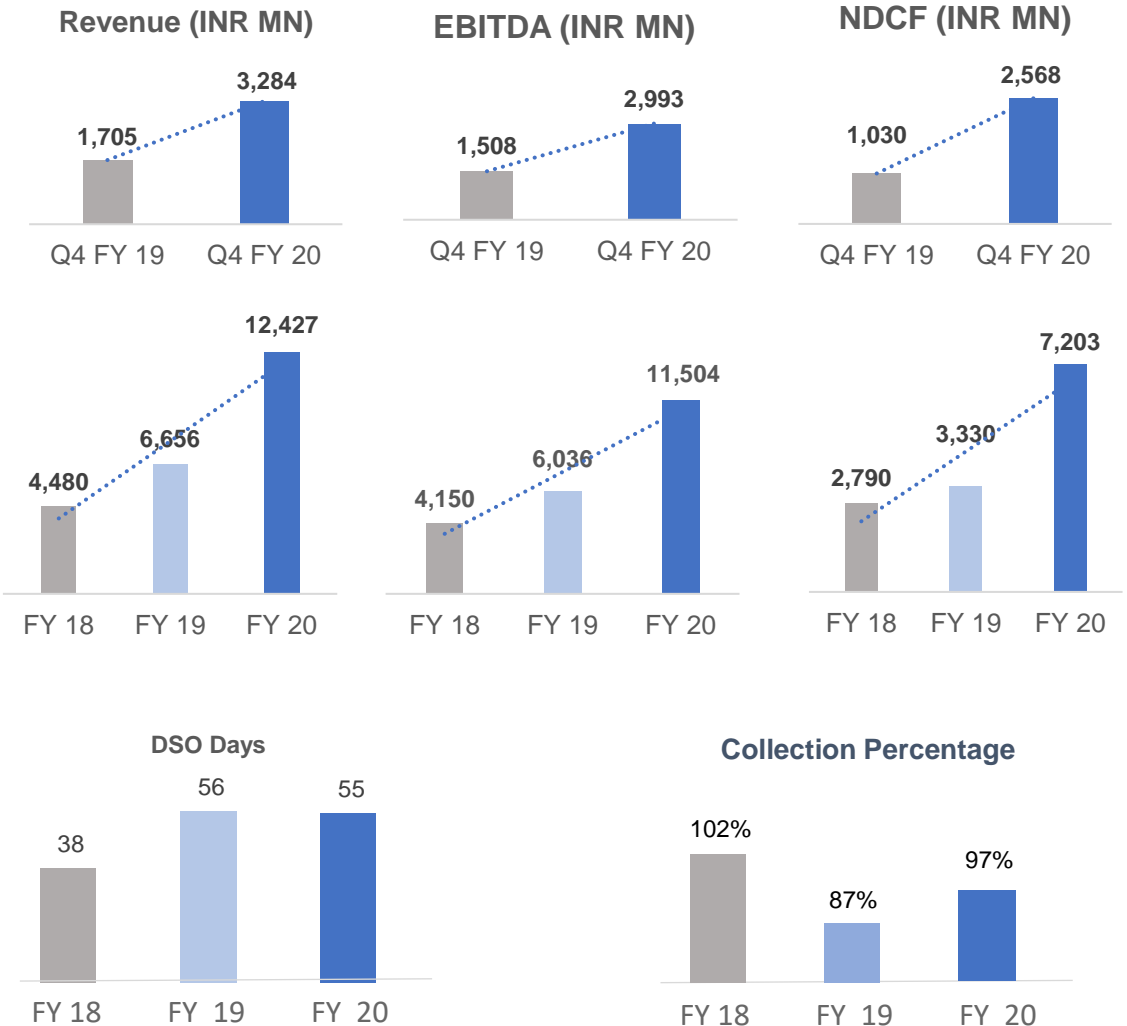
# FINANCIAL HIGHLIGHTS



# Financial Highlights of FY 20

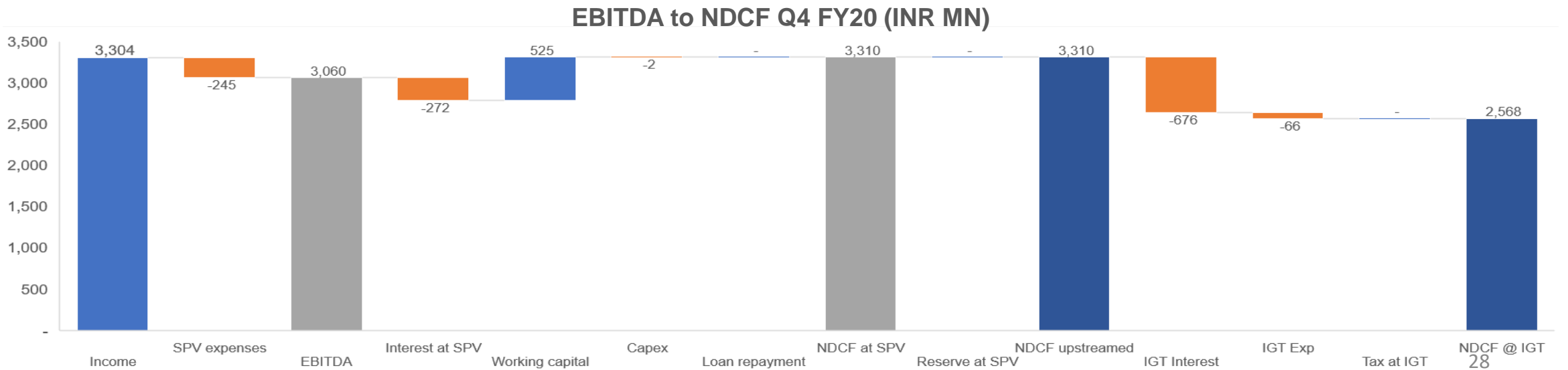
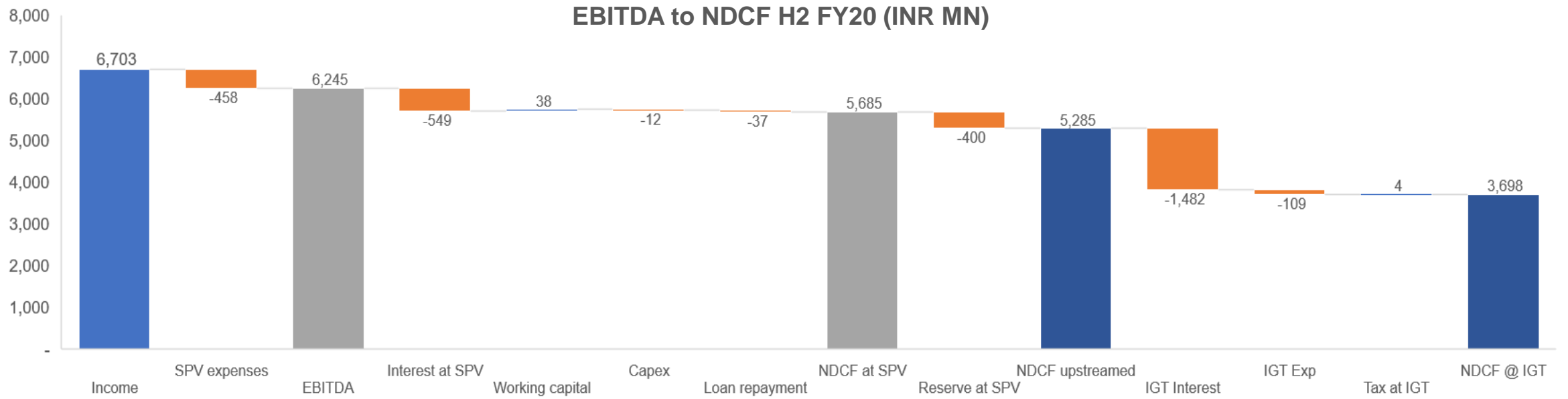


- EBITDA and NDCF CAGR of >60%
- INR 62 Bn acquisitions of NRSS ,OGPTL and ENICL resulted in higher Revenue, EBITDA and NDCF for FY20 and Q4 FY20
- YOY Revenue growth at 87% ; YOY NDCF growth of 116%
- **Distribution per unit of 3 Rs /Unit ; 175 Cr in Q4FY20 and 350 Cr in H2FY20 ; Q4 DPU to be distributed as interest**
- With ENICL, annual run rate of **INR 14.4 BN revenue** for the platform
- Improved EBITDA margins: 91% in FY 20 vs 90% in FY19
- Receivable days end of FY 20 at 55 days in line with historical trends
- Collection ratio for FY20 is 97%



Note: FY18 numbers are for 10 months of operations;  
 \*Collection and DSO trends are excluding ENICL which was acquired on 23<sup>rd</sup> March 2020

# Financial Highlights NDCF – H2FY 20 and Q4 FY 20



# Financial Highlights – A Robust Balance Sheet

**AAA**  
Rating by Crisil, ICRA,  
India Ratings

**8.6%**  
Average Cost of  
Debt

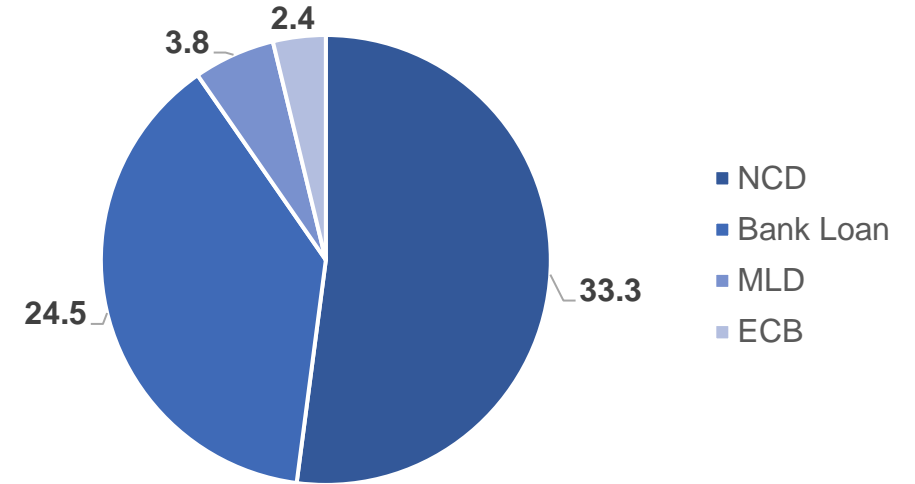
**100%**  
Fixed Rate Borrowing

**~50%**  
Net Debt/ AUM

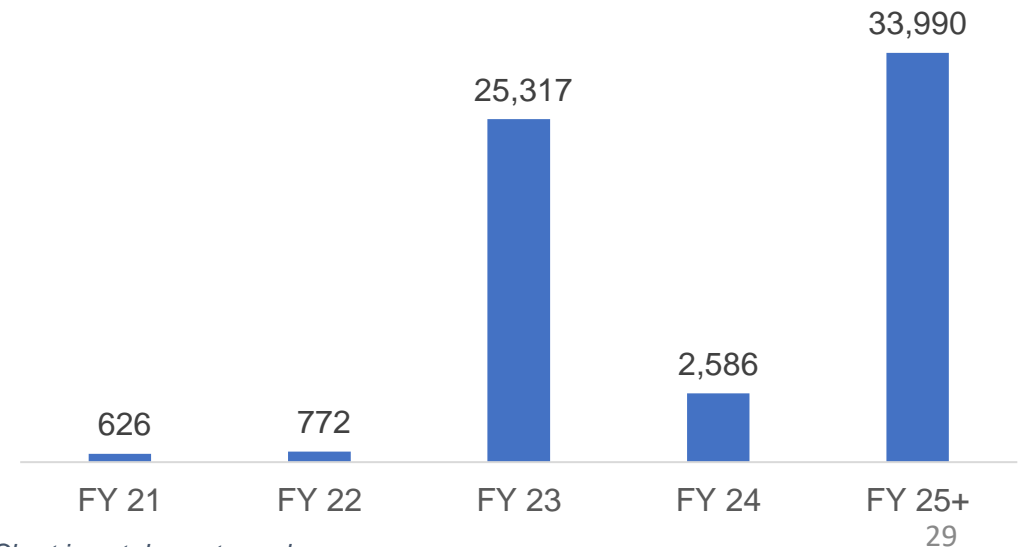
**INR 4,750\***  
MN Cash Balance

**>3.0x**  
EBITDA / Interest

Sources of Borrowing (INR BN)



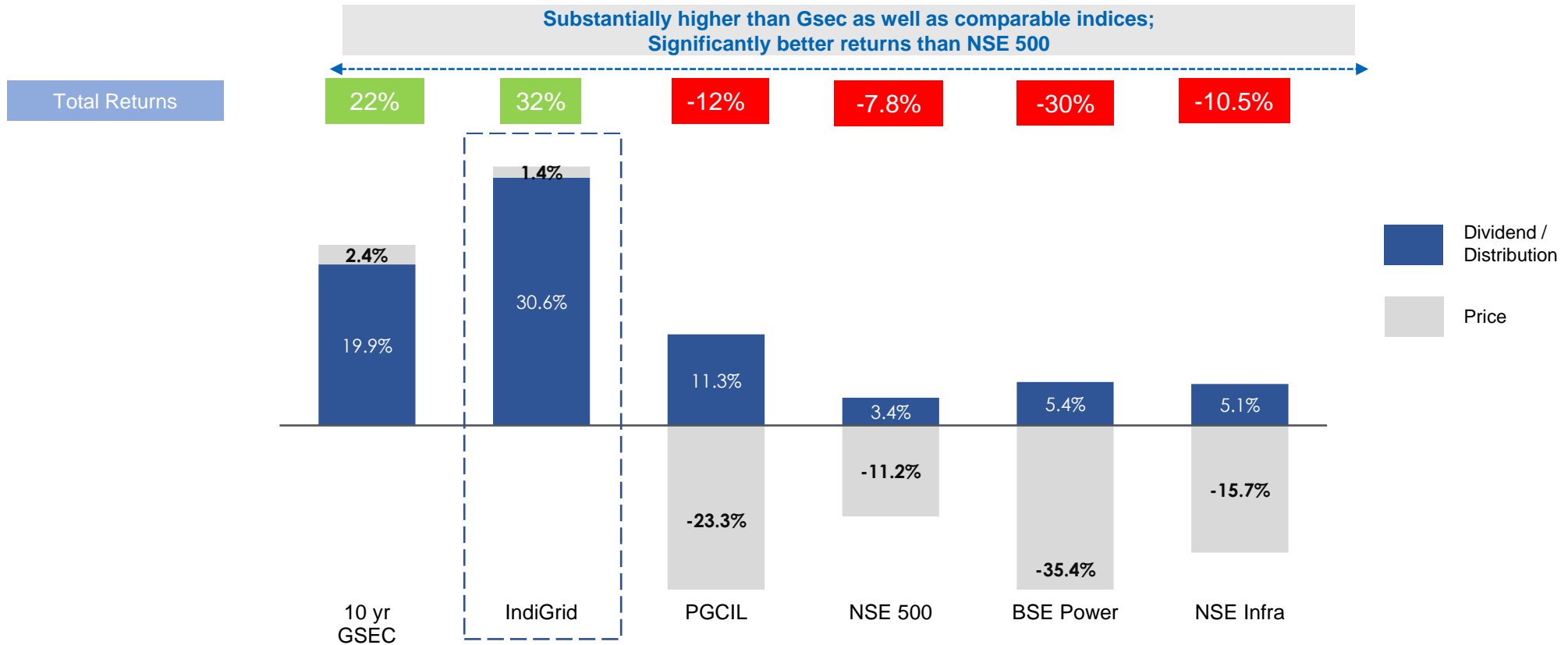
Repayment / Refinancing Schedule\* (INR MN)



\*Net of INR 62 cr. of liability undertaken along with the acquisition of ENICL

\*Chart is not drawn to scale

# Low Volatility – Superior Total Returns



Beta vs NSE 500	IndiGrid	BSE 500	BSE Power	BSE Cap Goods	NSE Infra	G-sec Bond
	0.07	1.00	0.85	1.04	0.93	0.01

Source: Bloomberg

Note: Total Return chart is from June 6, 2017 to May 22, 2020

**LOOKING AHEAD**



## Portfolio Growth

- Focus on diligence and monitoring of framework assets worth INR 65 Bn - GPTL, KTL and NERSS
- Consummation of acquisition of GPTL approved by unitholders
- Evaluate selective opportunities in Solar sector with Central counter parties
- Create pipeline of transmission projects besides the existing pipeline of projects

## Maintaining Balance Sheet Strength

- Focus on maintaining adequate liquidity to mitigate current uncertainties and any unpredictable scenario
- Sufficient cash balance and working capital lines
- Look for diversifying debt sources and elongating tenures in incremental facilities and reducing cost of debt

## Robust Asset Management

- Focus on maintaining > 99.5% availability across portfolio
- Investments in technology with respect to digital asset managements, predictive analytics and emergency preparedness
- Increasing focus on ESG initiatives kicked off in FY 20 for sustainability
- Ensuring world class EHS and O&M practices across the portfolio

## Industry Stewardship

- Focus on increasing awareness about IndiGrid and InvITs
- Policy initiatives like enabling IRDAI & PFRDA to subscribe debt securities issued by InvITs and reduction in lot size to single unit at par with equity

**Superior**  
Total Returns

**Stable**  
DPU

**Growth in**  
NDCF



AUM	Assets Under Management
Availability	Percentage amount of time for which the asset is available for power flow
BDTCL	Bhopal Dhule Transmission Company Limited
CERC	Central Energy Regulatory Commission
DPU	Cash paid to the Unitholders in the form of interest/ capital repayment / dividend
DSRA	Debt Service Reserve Account
ENICL	East North Interconnection Limited
GPTL	Gurgaon – Palwal Transmission Limited
GTTPL	Goa Tamnar Transmission Project Limited
IPA	BDTCL and JTCL which were acquired by IndiGrid at the time of IPO
ISRA	Interest Service Reserve Account
ISTS	Inter State Transmission System
KTL	Khargone Transmission Limited
JTCL	Jabalpur Transmission Company Limited
MTL	Maheshwaram Transmission Limited
MVA	Mega Volt Ampere
NDCF	Net cash flow at trust's disposal for distribution to IndiGrid in a particular year in accordance with the formula defined in Offer Document
NER II	NER II Transmission Limited
NTL	NRSS XXIX Transmission Limited
OFTO	Offshore Transmission
OGPTL	Odisha Generation Phase Transmission Limited
O&M	Operations and Maintenance cost
RE	Renewable Energy
ROFO	Right Of First Offer
PKTCL	Purulia Kharagpur Transmission Company Limited
PTCL	Patran Transmission Company Limited
RTCL	RAPP Transmission Company Limited
SECI	Solar Energy Corporation of India
Tariff	Composed of Non-Escalable, Escalable and Incentive component. The incentive component is based on the availability of the asset = $2 \times (\text{Annual Availability} - 98\%) \times (\text{Escalable} + \text{Non-escalable})$ ; incentive is maximum 3.5% of (Escalable+Non-escalable tariff)
TBCB	Tariff Based Competitive Bidding
TSA	Transmission Service Agreement

# ANNEXURE



# Financial Highlights: P&L and Balance Sheet

IGT Consolidated	Q4 FY20 (INR MN)	Q4 FY19 (INR MN)	FY20 (INR MN)	FY19 (INR MN)
Revenue	3,284	1,705	12,427	6,656
EBITDA	2,993	1,508	11,504	6,036
Net Interest Expenses	1,143	613	3,860	2,225
NDCF	2,568	1,030	7,203	3,330
PAT	997	376	5,057	1,539
Net worth	50,486	26,766	50,486	26,766
Debt Outstanding	64,004	26,172	64,004	26,172
Current Liabilities	2,828	367	2,828	367
Other Liabilities	602	157	602	157
<b>Total</b>	<b>1,17,920</b>	<b>53,462</b>	<b>1,17,920</b>	<b>53,462</b>
Net Fixed Assets	1,08,163	49,828	1,08,163	49,828
Current Assets	3,977	1,740	3,977	1,740
Cash+ Current Investment	5,388	1,699	5,388	1,699
Other Assets	392	196	392	196
<b>Total</b>	<b>1,17,920</b>	<b>53,462</b>	<b>1,17,920</b>	<b>53,462</b>

# Bhopal-Dhule Transmission (BDTCL)



## Bhopal Dhule Transmission Company Limited

Overview	<ul style="list-style-type: none"> <li>BDTCL owns 918 km/945 ckm of transmission lines covering six elements</li> <li>This project is part of the system strengthening scheme of the Western Region and will facilitate the transfer of up to 5,000MW of electricity from the coal belt in the East, to the energy deficient regions of western and northern India</li> <li>All the elements are on a 'Build, Own, Operate and Maintain' (BOOM) basis</li> </ul>
Description	<ul style="list-style-type: none"> <li>BDTCL comprises four 765 kV Single Circuit measuring 891 km and two 400 kV Double Circuit measuring 27 km commissioned to strengthen the transmission system in the states of Madhya Pradesh, Maharashtra, and Gujarat</li> <li>There are also two 65/400 kV Substations at Bhopal (Madhya Pradesh) and Dhule (Maharashtra)</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned in June-2015</li> </ul>

Lines	Route Length	Specifications	Location	Status
Jabalpur – Bhopal	260 Km	765 kV S/C	Madhya Pradesh	Commissioned
Bhopal – Indore	176 Km	765 kV S/C	Madhya Pradesh	Commissioned
Bhopal – Bhopal	18 Km	400 kV D/C	Madhya Pradesh	Commissioned
Aurangabad – Dhule	192 Km	765 kV S/C	Maharashtra	Commissioned
Dhule – Vadodara	262 Km	765 kV S/C	Maharashtra, Gujarat	Commissioned
Dhule – Dhule	19 Km	400 kV D/C	Maharashtra	Commissioned

# Jabalpur Transmission (JTCL)



## Jabalpur Transmission Company Limited

Overview	<ul style="list-style-type: none"> <li>JTCL owns and operates 617 km / 998 ckm of transmission lines covering two elements</li> <li>JTCL is a part of the system strengthening common for the Western Region and the Northern Region</li> <li>The corridors thus created are crucial links, on the basis of which the Central Transmission Utility has entered long-term open-access agreements with several generation companies in the Eastern Region.</li> </ul>
Description	<ul style="list-style-type: none"> <li>JTCL, India's first 765 kV Double Circuit and a 765 kV Single Circuit transmission lines have been established to strengthen the transmission system in the Indian states of Chhattisgarh and Madhya Pradesh</li> <li>This project will have the capacity to evacuate up to 5,000 MW from the East to the West and North, and will offer relief by alleviating the current bottlenecks for power plants in regions of Jharkhand, West Bengal and Orissa</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned in Sep-15</li> </ul>

Lines	Route Length	Specifications	Location	Status
Dharamjaygarh – Jabalpur	757 cKms	765 kV D/C	Chhattisgarh, Madhya Pradesh	Commissioned
Jabalpur – Bina	235 cKms	765 kV S/C	Madhya Pradesh	Commissioned

# RAPP Transmission (RTCL)



## RAPP Transmission Company Limited

Overview	<ul style="list-style-type: none"> <li>The project was set up to transfer power from the atomic power plant near Kota in Rajasthan to Shujalpur in Madhya Pradesh to provide the path for the evacuation of electricity generated at RAPP-7 and 8</li> <li>The network will act as an interregional link between the Northern and the Western region</li> <li>RAPP would help in evacuation of power from the power complex even in case of any grid constraints in the Northern region</li> </ul>
Description	<ul style="list-style-type: none"> <li>The project involves establishment and operation of one 400kV Double Circuit transmission line</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully commissioned on February 26, 2016</li> </ul>

Lines	Route Length	Specifications	Location	Status
RAPP- Shujalpur	403 cKms	400 kV D/C	Rajasthan, Madhya Pradesh	Operational

# Purulia & Kharagpur Transmission (PKTCL)



## Purulia & Kharagpur Transmission Company Limited

Overview	<ul style="list-style-type: none"> <li>PKTCL is part of the system strengthening for exchange of power between West Bengal Grid and ISTS. It would strengthen the transmission system in the Indian states of West Bengal and Jharkhand</li> </ul>
Description	<ul style="list-style-type: none"> <li>The 400 kV substation at Kharagpur of West Bengal State Electricity Transmission Company Limited (WBSETCL) has been commissioned with LILO of Kolaghat-Baripada line.</li> <li>The Chaibasa substation of power grid is under implementation with LILO of both circuits of Jamshedpur-Rourkela line</li> <li>The Ranchi 400 kV substation is a strong sub-station in Eastern Region grid and also one of the gateways for power exchange with Western Region Grid</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned on January 7, 2017</li> </ul>

Lines	Route Length	Specifications	Location	Status
Kharagpur –Chaibasa	322 cKms	400 kV D/C	West Bengal, Jharkhand	Operational
Purulia –Ranchi	223 cKms	400 kV D/C	West Bengal, Jharkhand	Operational

# Maheshwaram Transmission (MTL)



## Maheshwaram Transmission Limited

Overview	<ul style="list-style-type: none"> <li>• Maheshwaram Transmission Limited (MTL) will create a key component to enable Southern region to draw more power from North-East-West (NEW) Grid and address the issue of power stability in Telangana region to a great extent</li> <li>• The improved grid connectivity shall facilitate power procurement from the Inter State Transmission System (ISTS) network to the beneficiary states Telangana, Tamil Nadu, Seemandhra and Karnataka to meet their electricity demands</li> </ul>
Description	<ul style="list-style-type: none"> <li>• The project was envisaged to provide grid connectivity for Maheshwaram 765/400 kV Pooling Substation and Nizamabad 765/400 kV Substation</li> <li>• Expected commissioning date is FY18</li> </ul>
Other	<ul style="list-style-type: none"> <li>• Initial tenure period of 35 years; Fully Commissioned in Dec-17</li> </ul>

Lines	Route Length	Specifications	Location	Status
<b>Maheshwaram (PG) – Mehboob Nagar</b> #2 No of 400 kV line bays at Mehboob Nagar Substation of Transmission Corporation of Telangana Limited	199 cKms	400 kV D/C	Telangana	Commissioned
<b>Nizamabad – Yeddumailaram (Shankarpalli)</b> #2 No of 400 kV line bays at Yeddumailaram (Shankarpalli) Substation of Transmission Corporation of Telangana Limited	278 cKms	400 kV D/C	Telangana	Commissioned





## Patran Transmission Company Limited

Overview	<ul style="list-style-type: none"> <li>Patran Transmission Company Limited ("PTCL") was incorporated on December 19, 2012.</li> <li>The PTCL project was awarded to Techno Electric &amp; Engineering Co. Ltd. ("TEECL") by the Ministry of Power on perpetual ownership basis.</li> <li>PTCL project meets the requirement of growing load in Patiala and Sangrur district of Punjab.</li> </ul>
Description	<ul style="list-style-type: none"> <li>The project comprises of 400/ 220 kV substation having 1000 MVA transformation capacity with 14 bays in Patran, Punjab and LILO of both circuits of Patiala-Kaithal 400 kV double circuit triple snow bird Line of 5 km at Patran.</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned in Nov-16</li> </ul>

Lines	Route Length	Specifications	Location	Status
Patran Substation	NA	2* 500 MVA, 400/220Kv	Punjab	Operational

# NRSS XXIX Transmission (NRSS)



## NRSS XXIX Transmission Limited

Overview	<ul style="list-style-type: none"> <li>Northern Region Strengthening Scheme (NRSS)-29, is the largest private sector transmission project awarded in the country till date</li> <li>The project is extremely critical to meet the power requirements of Jammu &amp; Kashmir. The state today produces only 800 MW of power and within three years, will require almost 4,000 MW of power</li> <li>The project will deliver over 2,000 MW of electricity from Punjab to the Kashmir Valley by strengthening National Grid.</li> </ul>
Description	<ul style="list-style-type: none"> <li>To strengthen the transmission system in the states of Jammu &amp; Kashmir and Punjab, NRSS-XXIX Transmission Limited will commission three 400 kV Double Circuit transmission lines &amp; one 400/220 kV GIS Substation</li> <li>Expected commissioning date: Phase I (March 2016); Phase II (October 2017)</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned in Sep-18</li> </ul>

Lines	Route Length	Specifications	Location	Status
400/220 kV GIS substation at Amargarh	NA	400/220 kV D/C GIS Substation	Jammu & Kashmir	Operational
Samba – Amargarh	546 cKms	400 kV D/C	Jammu & Kashmir	Operational
LILO of both Circuits of Uri – Wagoora	14 cKms	400 kV D/C	Jammu & Kashmir	Operational
Jalandhar – Samba	270 cKms	400 kV D/C	Punjab, Jammu & Kashmir	Operational



## Odisha Generation Phase-II Transmission Limited

Overview	<ul style="list-style-type: none"> <li>The project is a part of Common Transmission System for Phase-II Generation Projects and Immediate Evacuation System for OPGC Project in Odisha</li> <li>The transmission lines will be part of the interstate transmission network providing additional evacuation of up to 5,000 MW of electricity from Odisha-based plants</li> </ul>
Description	<ul style="list-style-type: none"> <li>Two transmission lines totaling 350 kms connecting Odisha and Chhattisgarh</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 35 years; Fully Commissioned in April-19</li> </ul>

Lines	Route Length	Specifications	Location	Status
Jharsuguda-Raipur	608 ckms	765 kV D/C	Odisha and Chhattisgarh	Operational
Banharpali-Jharsuguda	103 ckms	400 kV D/C	Odisha	Operational

# East North Interconnection (ENICL)



## East North Interconnection Company Limited

Overview	<ul style="list-style-type: none"> <li>ENICL owns and operates 454 km / 908 ckm of transmission lines covering two elements</li> <li>The transmission line passes through challenging terrain in the States of Assam, West Bengal and Bihar</li> <li>Commonly referred to as the Siliguri Corridor or the Chicken's Neck, the peculiarity of this stretch is that it is the only land route connecting mainland India with North East India making it critical from an inter-region power transfer point of view</li> </ul>
Description	<ul style="list-style-type: none"> <li>The project involved the establishment of two 400 kV Double Circuit transmission lines (with a total line length of 454 Km) that passes through the Indian states of Assam, West Bengal, and Bihar</li> <li>The project addresses the critical issue of the power shortfall during non-Monsoon months, thereby bringing significant relief to the people of Assam</li> </ul>
Other	<ul style="list-style-type: none"> <li>Initial tenure period of 25 years; Fully Commissioned in Nov-14</li> </ul>

Lines	Route Length	Specifications	Location	Status
Bongaigaon-Siliguri	443 ckms	400 kV D/C	Assam, West Bengal	Operational
Purnia-Biharsharif	466 ckms	400 kV D/C	Bihar	Operational



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**THANK YOU**

