**Genus** energizing lives

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Genus Power Infrastructures Limited

May 2019 Corporate

Presentation





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#### **Recent Order Received**

- Received an export order worth ~Rs 47 crore
- Received a domestic order worth ~Rs 49 crore
- LOI for supply of AMR enabled Smart meters in Maharashtra, worth ~Rs. 92 crore

#### Set up an Advanced Metering Infrastructure (AMI) lab

• At Smart Grid Knowledge Centre (SGKC) of Power Grid Corporation of India Limited (PGCIL)

#### **Technology Tie-up**

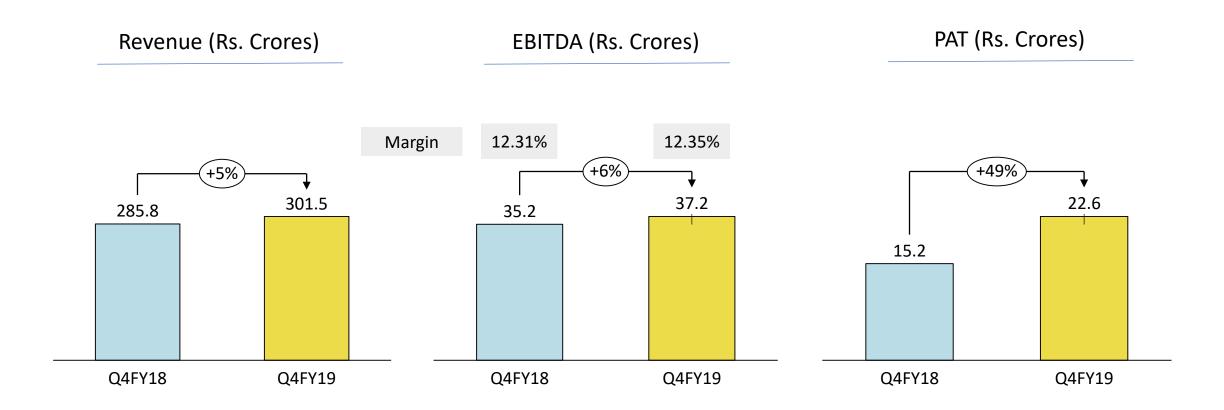
- Vodafone Idea Business Services (VIBS), the enterprise arm of Vodafone Idea, has entered into a partnership with us to work together on a Proof of Concept (POC) of NB-IoT (Narrowband Internet of Things) networks
- We are conducting advanced trials of NB-IoT enabled energy meters in India





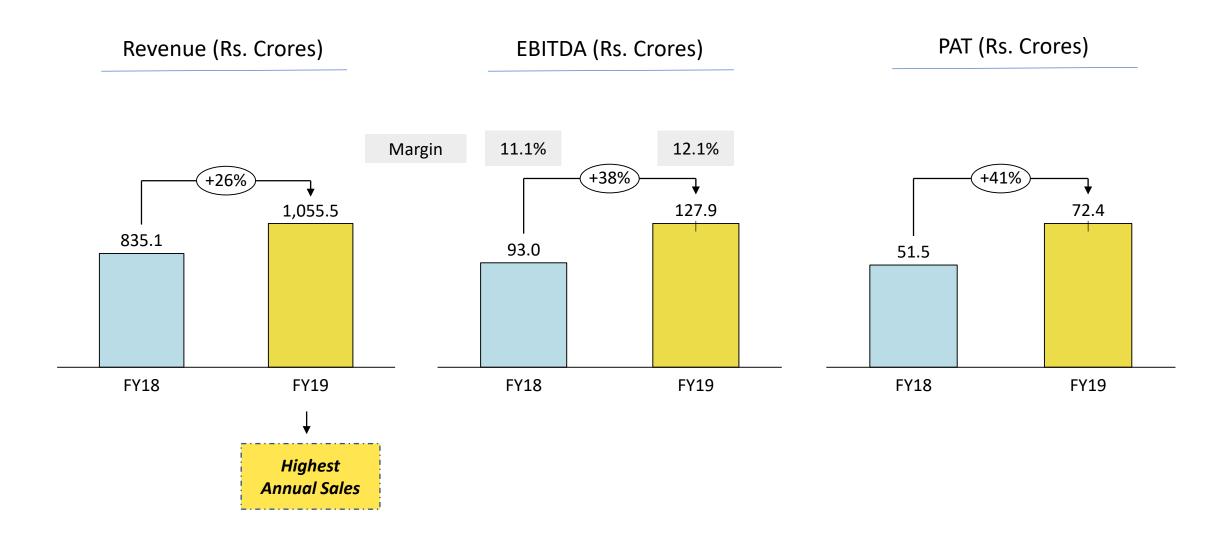






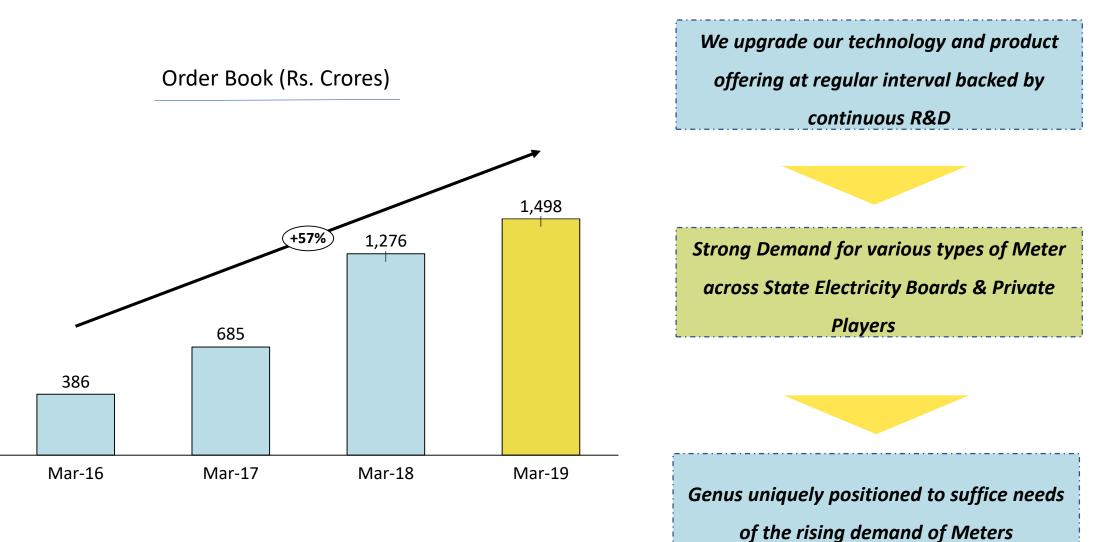














## **Business Overview**





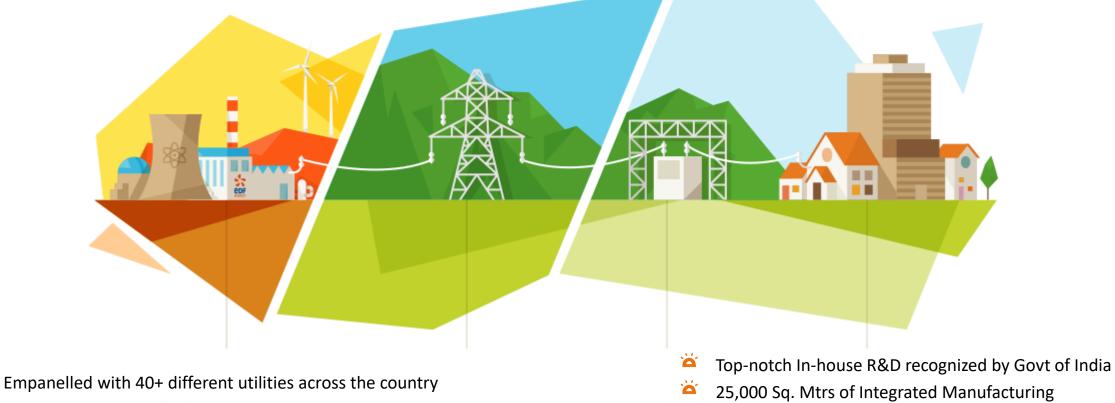


- Incorporated in 1992, Part of \$400 mn Kailash Group
- Over 2 decades of experience in electricity metering solutions industry

Largest player in India's electricity meter industry

Annual Production capacity of 10 mn+ meters

- ~27% market share in Meter Industry
- ~70% market share in Smart Meters
- Share of Metering Projects increasing



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57 mn+ Meters installed

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Capability to undertake turnkey power projects up to 400 KV

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production at Assam

plant







Mr. Ishwar Chand Agarwal Executive Chairman



Mr. Kailash Chandra Agarwal Vice-Chairman, Non-Executive, Non-Independent



Mr. Rajendra Kumar Agarwal Managing Director and CEO



Mr. Jitendra Kumar Agarwal Joint Managing Director



Dr. Giriraj Nyati COO - Metering Solution



Mr. R Viswanathan Chief Management Representative



Mr. N L Nama Chief Financial Officer



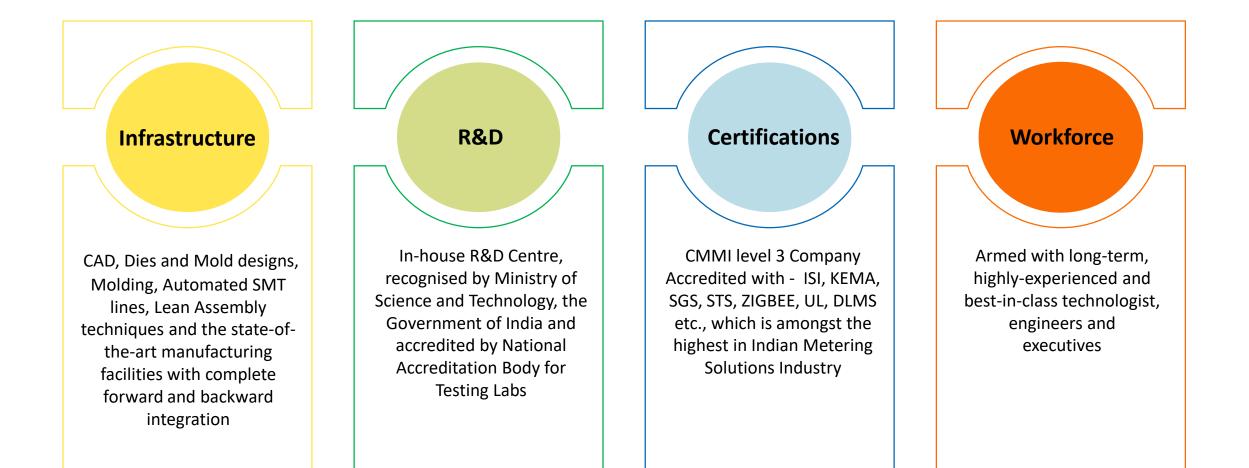
Dr. Anukram Mishra Chief Technical Officer



Mr. Ranvir Singh Rathore Senior VP – Domestic Marketing and Sales









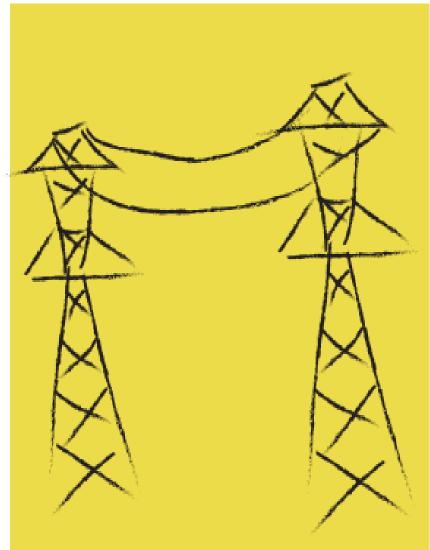


## **SMART METERING SOLUTIONS**

- Offers a wide spectrum of Smart Metering Solutions, that includes High End Multifunction Single Phase and Three Phase Meters, CT Operated Meters & HES (Head End System), ABT & Grid Meters, Distribution Transformer (DT Meters), Pre-payment Meters, Group Metering, Smart Street Light Management Solution, Net- Metering Solution for rooftop Solar, Data Concentrator, Energy Management solution for Building Management and DC Metering Solution, Gas Meter etc
- Genus specializes in providing end-to-end metering solutions (AMI) with communication modules and software under its Smart Energy Management Solution

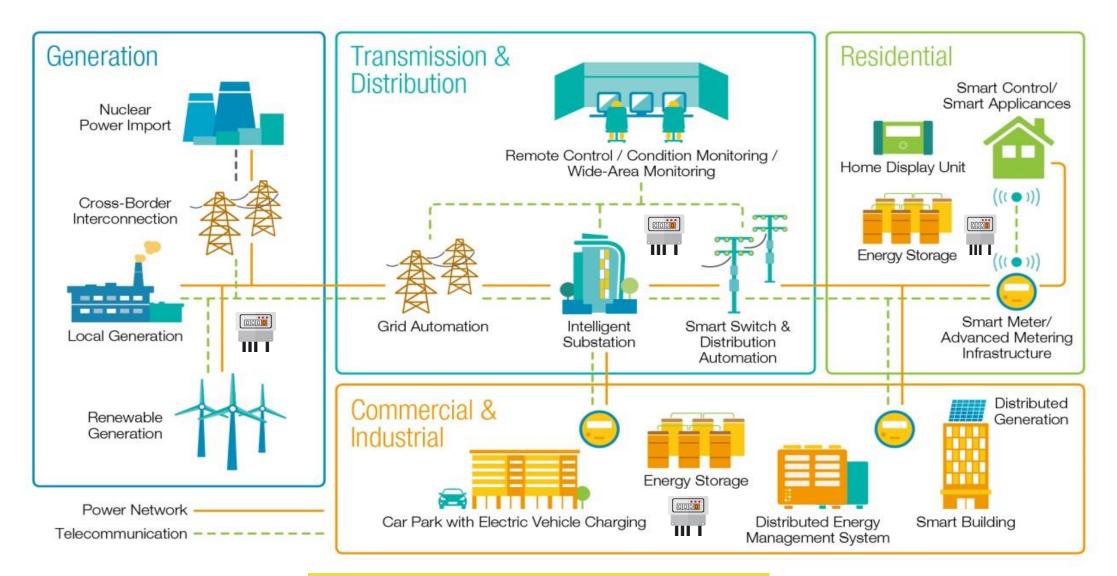
## **ENGINEERING, CONSTRUCTIONS AND CONTRACTS (ECC)**

- Customized and turnkey (ECC) solutions to the Power Transmission and Distribution (T&D) sector
- Under the turnkey ECC solutions, Genus offers One Stop Total Solution of Metering, Engineering & Construction from 'Concept to Commissioning' with distinctive specialization in Smart Metering Solution & Advance Metering Infrastructure



## **Genus** End to End Energy Management Solutions











- Single / Three Phase Smart Meters
- 🎽 Net Meters
- Smart Street Light Management System
- Group Metering



### INDUSTRIAL

- LT / HT CT Meter with Integrated Communication
- Meters with Automatic Power Factor Controller
- 🎽 ABT Meter
- Smart High end Meters

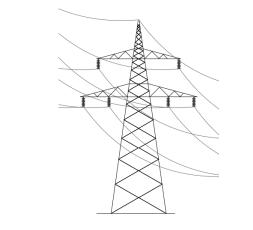


## **PREPAYMENT SOLUTION**

- Single Phase Prepayment Meter
- Three Phase Prepayment Meter
- Dual prepayment Solution
- DIN Rail Prepayment Meter
- Prepaid Vending Software
- On-Line "Pre-paid" Metering Solution

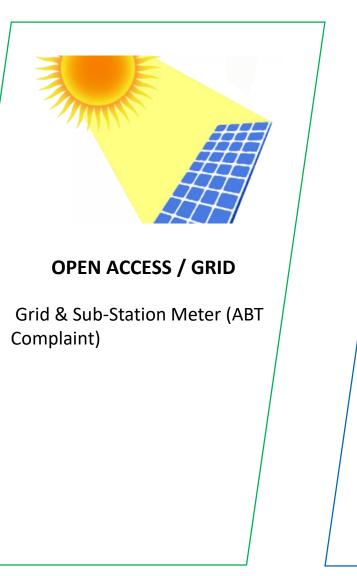






## DISTRIBUTION TRANSFORMER

- Thread Through Metering Solution for Distribution Transformer
- Smart DT Meter with Integrated Communication



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### **CALIBRATION EQUIPMENT**

- Single Phase Portable Reference Meter
- Three Phase Portable Reference Meter

# **Genus** Engineering Construction & Contracts



### **ECC** Division

- Provides total engineering and construction solution from "Concept to Commissioning"
- Offers turnkey solutions of MV, HV & EHV sub-stations & transmission lines and execute turnkey jobs up to 420 KV

### Leveraging on Strength

- More than 20 years of experience in Indian Power distribution sector
- Engineered Energy meter solutions backed up with in-house R&D and technological prowess

### **Complements the Metering Business**

- Increased implementation of Smart metering solution
- Higher sales growth under metering division
- Margin expansion
- 🎽 🛛 Gain Market share

### **Current Projects under implementation**

- 🞽 220 KV transmission line and substation in Jharkhand
- 🞽 132 KV D/C transmission line and substation in Jharkhand
- 🞽 230/110 KV AIS substation in Tamil Nadu
- Rural electrification work in Uttarakhand under R-APDRP
- 🞽 Rural electrification work (including feeder segregation) in Western UP under DDUGJY scheme

Genus Power would benefit from the GOI's plan to reduce T&D losses in coming years







SEB's registered under UDAY schemes are the major revenue contributors







R&D Centre and Corporate Office, Sitapura, Jaipur



Ramchandrapura, Jaipur



Haridwar, Uttaranchal

Haridwar, Uttaranchal

Guwahati, Assam







NABL Accredited Research & Development Lab Recognized By The Ministry of Science and Technology, Government of India

#### In-House NABL Accredited Electronic Energy Meter Testing Laboratories

A series of reliability tests are conducted periodically both on in-house reliability chambers and from NABL approved outside test labs, to establish a satisfactory life of the product in the hands of the customer.

#### Quality is the hallmark of Genus products and services

Comprehensive testing is carried out at various stages of product manufacturing starting from incoming raw material/components to in-process stages and to the final finished and packed product









CMMI Level 3 Company



STS certification



Bureau Veritas



**QSI** Certification



National Accreditation Board for Testing and Calibration Laboratories



**KEMA** Certification



R&D Lab recognized by MSD, GOI

सत्यमेव जयते



Silver Certificate by Frost & Sullivan



**IEC** Certifications



ZigBee Certification



tion









STQC Certifications

DLMS Certification for Meters

EMC Certifications

IECQ for quality of components

**C-DOT Certifications** 

Awarded various national and international quality accreditations such as various 'ISO' marks, OHSAS 18001 'BIS', NABL, 'STS', 'EMC', 'ISI', 'S' mark, etc.,



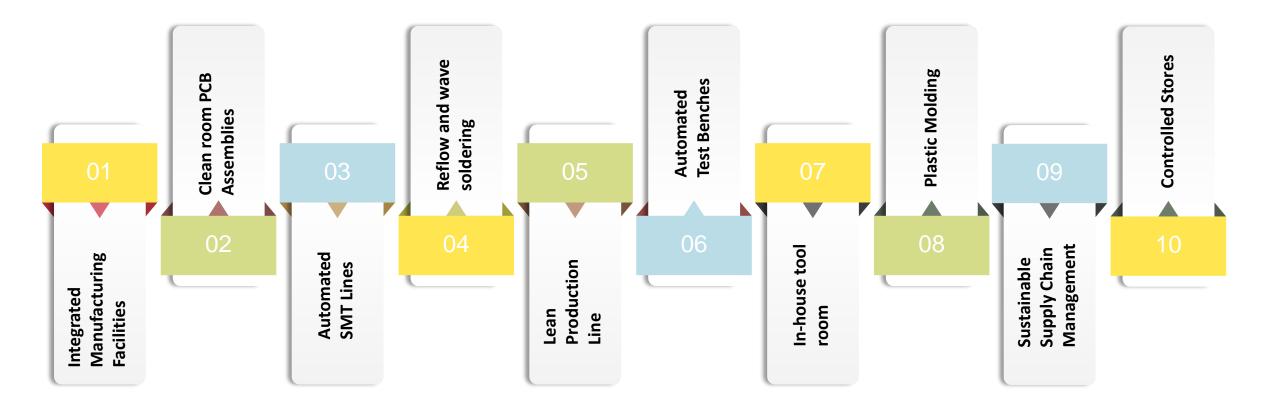


In-house Technology product since inception

Truly "Made in India"

- Quality Assurance
- Innovation & R&D
- In-House NABL Accredited Electronic Energy Meter Testing Laboratories (recognized by Ministry of Science & Technology, Govt. of India)
- Lean Manufacturing

Qualified & Capable to service the ever growing power sector demand by adhering to stringent protocol







## 2000:

Rated as 7th turnaround company of India by Business World, India

## 2004:

Rated among top 100 Electronic companies in India by EFY

## 2013:

The prestigious EFY Reader's choice top 5 brands



## 2015:

"Silver Certificate of Merit" by Frost & Sullivan's India Manufacturing Excellence Awards 2015

## 2018:

The Global Center of Excellence at Jaipur for the successful testing & integration of Genus Smart Electricity Meter Solution in the Living Lab in Jaipur

## 2011:

Outstanding performance award by NDPL towards AT&C loss reduction

## **2015:**

Accorded Excellence in Quality by Golden Peacock National Quality Awards, 2015

## 2018:

Quality team won 7 Gold & 3 Silvers in 32nd National Convention Quality Circle Awards organised by "Quality Circle Forum of India" at Gwalior & Haridwar

### 2019:

**Recognition from CESC for "Active Involvement in Development of Smart Meters"** 



## **Business Outlook**







- AT&C Loss = (Energy input Energy billed) \* 100 / Energy input
- Theft is the one of the main causes of the high losses. Theft occurs in several ways, viz: by tapping power lines and tempering / by-passing meter etc

#### Meters play a vital role in reduction of AT&C Losses

- Replacement of defective meters by tamper proof electronic meters / smart meters
- AMI / Smart metering to the consumer for reduction of commercial losses and billing and collection ease

### Smart meter has the following capabilities:

- Smart Meters and AMI Meters have communication capability
- It can register real time or near real time consumption of electricity or export both.
- Read the meter both locally or remotely
- Remote connection or disconnection of electricity
- Remote communication facilities through GSM / GPRS / RF etc









- DISCOMS had accumulated losses of Rs. 3.8 Trillion and Debt of Rs. 4.3 Trillion
- To improve the operational efficiency and reduce AT&C losses
- Smart Metering solutions, upgradation of transformers and meters
- Improved financial health of DISCOM's would help in lower operating cost and reduce working capital cycle of equipment suppliers
- Till date 27 states and 5 UT has participated in the scheme



## Integrated Power Development Scheme

A Priority Programme of Govt. of India

- Planned outlay of Rs. 326 Billion
- Strengthening of sub-transmission network to reduce AT&C losses
- Metering & implementation of IT application to reduce commercial losses
- Smart Meters be installed for all consumers with consumption of above 200 units by 2019



DEENDAYAL UPADHYAYA GRAM JYOTI YOJANA ( Scheme of Govt. of India for Rural Areas )

- 🎽 Planned outlay of Rs. 760 Billion
- Electrification to all villages
- Feeder separation (Rural households & agricultural)
- Strengthening of sub-transmission & distribution infrastructure including metering at all levels (input points, feeders and distribution transformers)
- Metering to reduce the Losses







GOVERNMENT OF INDIA

As per the, notification by power ministry, dated 8<sup>th</sup> September 2016 :

- Mandatory rollout of Smart Meters, for consumers with monthly consumption of 500 units and more
- Mandatory rollout of Smart Meters, for consumers with monthly consumption of 200 units and more
- Current Power minister Mr R. K. Singh has extended deadline to end of FY22

## **METERING OPPORTUNITY**

- India has 200 million legacy meters
- There are plans to install up to 130 million smart meters by 2021

## **GOVERNMENT INVESTMENT**

- The government is planning to invest up to \$21 billion till 2025 in smart grid technologies
- The smart cities initiative is targeting 100+ cities in India, out of which 20 have been declared and work for them will start in the next month or two
- More than 14 smart grid pilots have been launched in cities across India, to push smart solutions in Power Generation & Distribution Industry





#### Latching Switch

Smart meters will have a kill switch which will close off the utility supply. The kill switch will be operated via Internet. This will give power to utility providers to start and stop the supply at the click of a button

#### **Increased customer involvement**

As all the data collected will be uploaded on the Internet the customers will be able to access it using their smart phones application. This will give them a clear idea about daily, hourly and even per-minute consumption, and how it is billed

#### **Prepaid Schemes**

Customers will be able to recharge their meters to the amount of energy usage and consume only that much. As the meters are smart, they will remind the consumer when the balance is running low, or when a larger than normal chunk is being used. This will help consumers save money, and take the load of billing off the local body

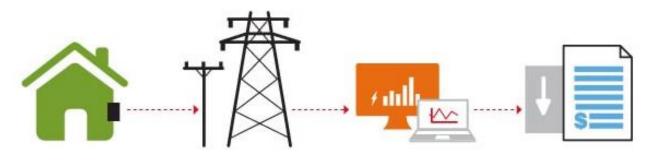
#### **Consumption Patterns**

As consumers will be able to access the data on their mobile phones / tablets / PCs, they will be able to cut their expenses using simple strategies. For example not using water heaters or electric irons during peak hour

## What are Smart Meters ?

Smart meters are remarkably different from electronic meters. While electronic meters only measure the amount of utility used, a smart meter is used to measure the utility and then transmit the reading without any human intervention

- ✓ Allowing utilities to introduce different prices for different consumption during different season
- ✓ Control devices with two-way communication between the meter and the central system







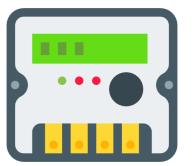
## Four ways to recharge Uttar Pradesh's power sector

#### 8<sup>th</sup> May 2017

The magnitude of the task at hand can be gauged from the fact that by 2019, Uttar Pradesh has to (1) nearly double its electricity-sector asset base, (2) plug in 11.2 million households, (3) formalize and meter around 8.4 million households with access to electricity, (4) meter another 6.8 million registered rural consumers, (5) halve AT&C losses even as losses get re-estimated after metering goals are achieved, (6) ensure round-the-clock supply to all consumers, and (7) achieve a financial turnaround

**100% metering of all existing and upcoming consumers should be done on a war footing**. This will help plug theft, revenue leakage and ensure that discoms get more money from the same set of consumers. Power Ministry links '24x7 Power' with consumer honesty

11<sup>th</sup> June 2017



Excepts from News Articles on **SMART METER** 

## as GAME CHANGER

"He also added that the Centre and the state are committed to **resolving** Uttar Pradesh's power sector distress through smart metering and crackdown on power theft."

#### Lower tax on coal under GST will bring down power tariffs: Piyush Goyal (Ex Power Minister)

#### 11<sup>th</sup> June 2017

"He also said that the central government could offer any amount of long-term, lowcost funding to states to implement smart metering of households."

Power minister Piyush Goyal said : "Smart meters, which are crucial for a roof-top solar power plant which is connected to the grid to sell surplus power, can be a game changer . He pitched for wider use of smart electricity meters and urged the electrical equipment industry to come up with innovations that suit the domestic consumer as the country strives to use energy efficiently"

Tata Power Delhi Distribution Ltd. is now installing 200,000 smart meters and is planning to scale it up to 1.5 million in five to six years, while Reliance Power Ltd-owned BSES Yamuna Power Ltd and BSES Rajdhani Power Ltd, which supply electricity in Delhi, are also installing smart meters for customers in phases

Power Minister pitches for wider use of smart electricity meters

23<sup>rd</sup> Jan 2017







First Indian Company to get BIS Certificate for Smart Meters

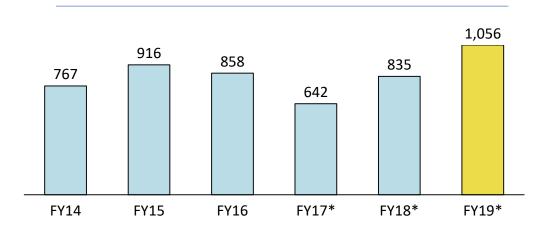


## **Financial Performance**



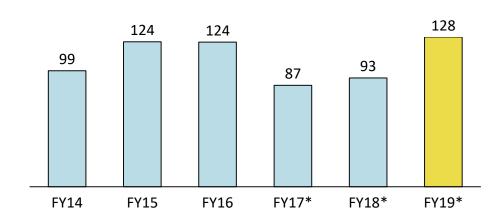




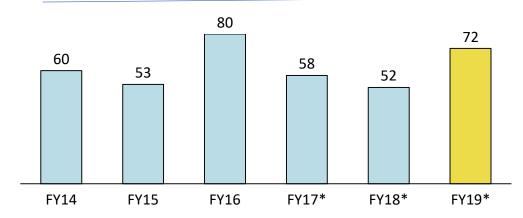


Revenue (Rs. Crores)

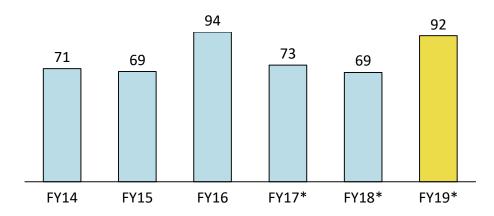
EBITDA (Rs. Crores)



PAT (Rs. Crores)



Cash PAT (Rs. Crores)



## **Genus** energizing lives Standalone Profit & Loss Statement



Particulars (Rs. Crores)	Q4 FY19	Q4 FY18	YoY	FY19	FY18	YoY
Total Revenue	301.5	285.8	5.5%	1,055.5	835.1	26.4%
Cost of Material Consumed	195.2	204.6		718.0	575.0	
Employee Expenses	26.9	24.5		98.2	85.8	
Other Expenses	42.2	21.5		111.4	81.3	
EBITDA	37.2	35.2	5.8%	127.9	93.0	37.5%
EBITDA (%)	12.35%	12.31%		12.12%	11.14%	
Other Income	6.3	2.9		17.9	22.0	
Depreciation	5.0	4.4		19.4	17.1	
EBIT	38.5	33.7	14.4%	126.5	97.9	29.2%
EBIT (%)	12.79%	11.79%		11.98%	11.72%	
Finance Cost	9.7	7.3		33.9	22.8	
Profit before Tax	28.8	26.4	9.3%	92.5	75.1	23.2%
Тах	6.3	11.2		20.2	23.5	
Profit after Tax	22.6	15.2	48.8%	72.4	51.5	40.4%
PAT %	7.49%	5.31%		6.86%	6.17%	
EPS	0.88	0.59		2.81	2.00	





ASSETS (Rs. Crores)	(Rs. Crores) Mar-19 Mar-18 EQUITY AND LIABILITIES(Rs. Crores)		Mar-19	Mar-18	
Non-current assets					
Property, plant and equipment	176.9	165.5	Equity Share capital	25.7	25.7
Capital work-in-progress	1.6	1.9	Share Application Money Pending Allotment	0.0	0.1
Other intangible assets	1.1	1.2	Other equity	784.8	722.7
Investment in Associates	15.9	14.2	Sub-total - Shareholders' funds	810.5	748.5
Financial assets			Non-current liabilities		
Investments	68.4	36.8	Financial liabilities		
Loans	30.3	53.9	Borrowings	25.1	16.3
Other financial assets	18.4	12.8	Other financial liabilities	9.1	5.8
Other non-current assets	13.4	17.7	Long Term Provisions	22.5	14.5
Deferred tax assets (net)	37.2	36.7	Government Grants	1.7	2.0
			Net employee defined benefit liabilities	2.0	1.0
Sub-total - Non-Current Assets	363.3	340.7	Sub-total - Non-current liabilities	60.3	39.7
Current assets			Current liabilities		
Inventories	206.7	195.6	Financial liabilities		
Financial assets			Borrowings	242.3	221.4
Investments	124.1	124.7	Trade payables	235.2	249.7
Investment in trust	60.0	60.0	Other liabilities	12.5	5.6
Trade receivables	573.1	508.3	Government Grants	0.3	0.3
Cash and cash equivalents	14.8	21.8	Net employee defined benefit liabilities	2.2	2.3
Other Bank balances	24.2	15.9	Current tax liabilities (net)	0.0	3.1
Loans	4.2	6.0	Provisions	11.8	10.4
Other financial assets	3.3	10.2	Non-financial liabilities	27.4	40.8
Non Financial assets	28.9	38.5			
Sub-total - Current Assets	1,039.3	981.0	Sub-total - Current liabilities	531.8	533.5
TOTAL - ASSETS	1,402.6	1,321.7	TOTAL - EQUITY AND LIABILITIES	1,402.6	1,321.7

# **Genus** Consolidated Profit & Loss Statement



Particulars (Rs. Crores)	FY19	FY18	Y-o-Y
Total Revenue	1,055.5	835.1	26.4%
Cost of Material Consumed	718.0	575.0	
Employee Expenses	98.2	85.8	
Other Expenses	126.9	81.3	
EBITDA	112.4	93.0	20.8%
EBITDA (%)	10.65%	11.14%	
Other Income	10.9	55.0	
Depreciation	19.4	17.1	
EBIT	103.9	130.9	-20.7%
EBIT (%)	9.84%	15.67%	
Finance Cost	33.9	22.8	
Profit before Tax	70.0	108.1	-35.3%
Тах	20.2	23.5	
Profit before Associate	49.8	84.6	-41.1%
PAT %	4.72%	10.13%	
Profit / Loss of Associates	1.8	0.1	
Profit after Tax	48.0	84.5	-43.2%
PAT (%)	4.5%	10.12%	
Normalised Profit after Tax	72.4	51.5	40.4%
PAT (%)	6.86%	6.17%	
EPS	2.09	3.68	

Genus Trust hold shares in Genus Paper & Board Ltd. Hence, as per IND-AS, any changes in price will reflect at consolidated level.





ASSETS (Rs. Crores)	Rs. Crores) Mar-19 Mar-18 EQUITY AND LIABILITIES (Rs. Crores)		Mar-19	Mar-18	
Non-current assets					
Property, plant and equipment	176.9	165.5	Equity Share capital	23.0	23.0
Capital work-in-progress	1.6	1.9	Share Application Money Pending Allotment	0.0	0.1
Other intangible assets	1.1	1.2	Other equity	761.1	723.5
Investment in Associates	14.3	14.4	Sub-total - Shareholders' funds	784.1	746.5
Financial assets			Non-current liabilities		
Investments	68.4	36.8	Financial liabilities		
Loans	30.3	53.9	Borrowings	25.1	16.3
Other financial assets	18.4	12.8	Other financial liabilities	9.1	5.8
Other non-current assets	13.4	17.7	Long Term Provisions	22.5	14.5
Deferred tax assets (net)	37.2	36.7	Government Grants	1.7	2.0
			Net employee defined benefit liabilities	2.0	1.0
Sub-total - Non-Current Assets	361.7	340.9	Sub-total - Non-current liabilities	60.3	39.7
Current assets			Current liabilities		
Inventories	206.7	195.6	Financial liabilities		
Financial assets			Borrowings	242.3	221.4
Investments	159.2	182.4	Trade payables	235.2	249.7
Investment in trust	0.0	0.0	Other liabilities	12.5	5.6
Trade receivables	573.1	508.3	Government Grants	0.3	0.3
Cash and cash equivalents	14.8	21.8	Net employee defined benefit liabilities	2.2	2.3
Other Bank balances	24.2	15.9	Current tax liabilities (net)	0.0	3.1
Loans	4.2	6.0	Provisions	11.8	10.4
Other financial assets	3.3	10.2	Non-financial liabilities	27.4	40.8
Non Financial assets	28.9	38.5			
Sub-total - Current Assets	1,014.6	978.8	Sub-total - Current liabilities	531.8	533.5
TOTAL - ASSETS	1,376.2	1,319.8	TOTAL - EQUITY AND LIABILITIES	1,376.2	1,319.8







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