THE SUPREME INDUSTRIES LTD.
KANPUR U.P.

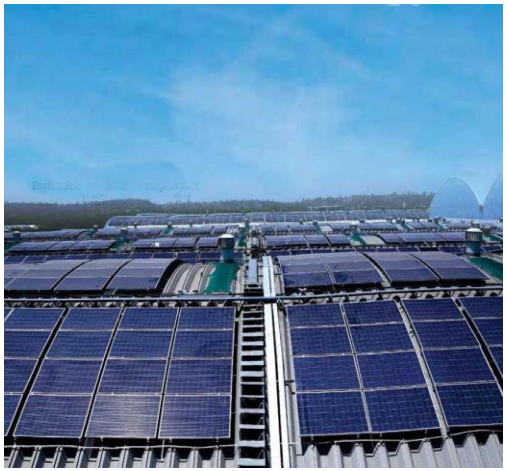
Company profile

- Incorporation on 17th Feb-1942
- Handling Volume of polymer processed 4,00,000 MT
- 25 Nos. of advanced manufacturing plants, 3 plants are under constructions.
- **Debt Free** company having cash surplus of 533 Cr at end of Jun-22
- Financial Details:-

a) Market Capitalization 25,955 Cr
b) Group Turnover-7,840 Cr
c) Operating Profit-1,309 Cr
d) Profit After Tax-811 Cr

Sustainability

- 10 Nos. Green Certified Products
- 17 Mwp Roof Top Solar Installation
- 10 Mwp Roof Top Solar in WIP FY 22-23
- ISO 14001 Certifications
- Low Carbon Emissions
- Plantation Drive by units
- 33 Millions Re-Units in FY 21-22
- Disclosure of GHG Emission



CII
Confederation of Indian Industry

CII-Green Products and Services Council

hereby certifies that

INSUSound XLO

(GPSI36001)

Manufactured by Supreme Industries Ltd - PPD meets

the requirements of GreenPro Certification and qualifies as Green Product.

This certification is valid till **December 2023**

Jamshyd N Godrej
Chairman, CII-Godrej GBC

ParasuRaman R
Chairman, CII-Green Products & Services Council

K S Venkatagiri
Executive Director, CII-Godrej GBC

Supporting Council and programmes

Kanpur Plant

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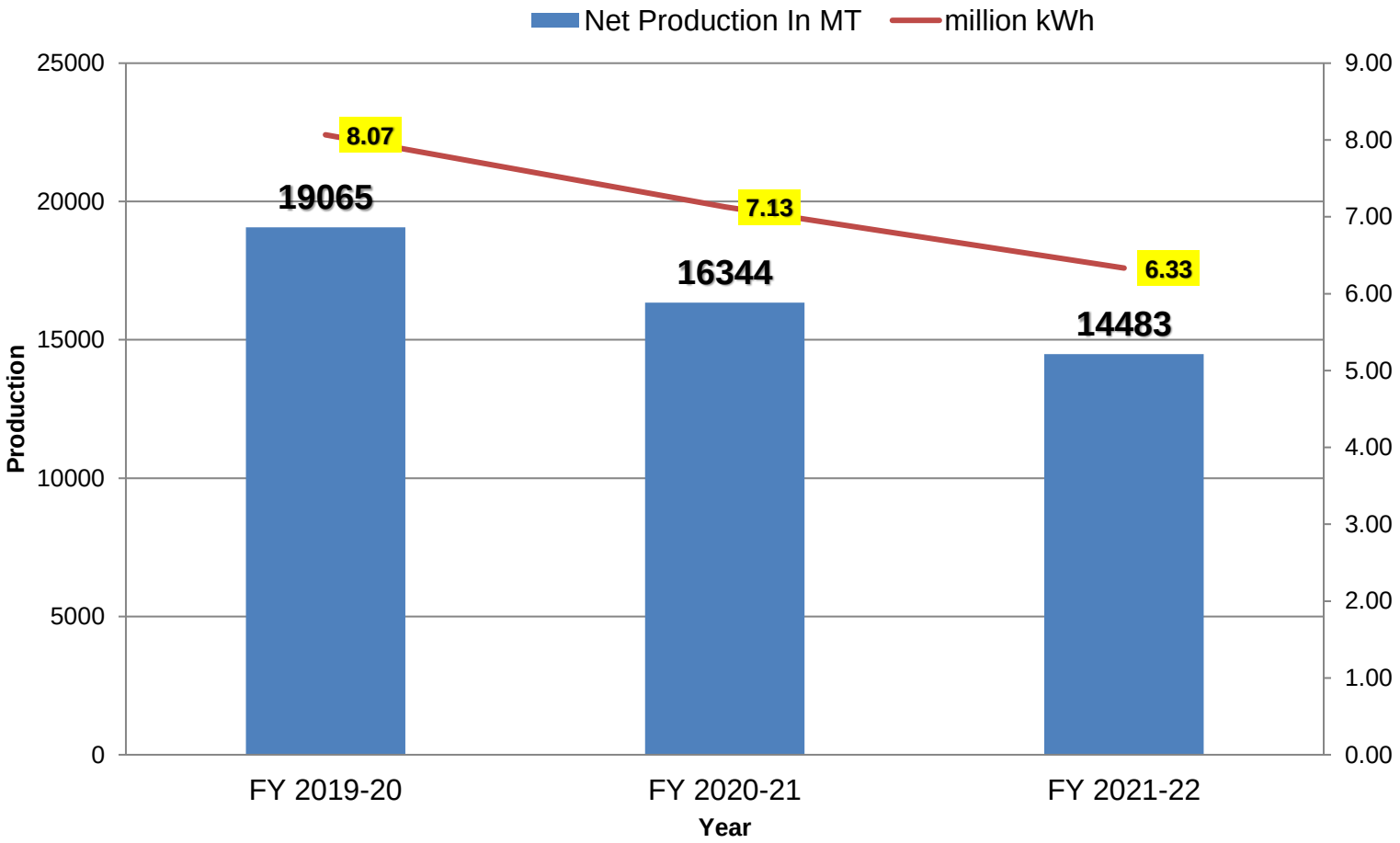
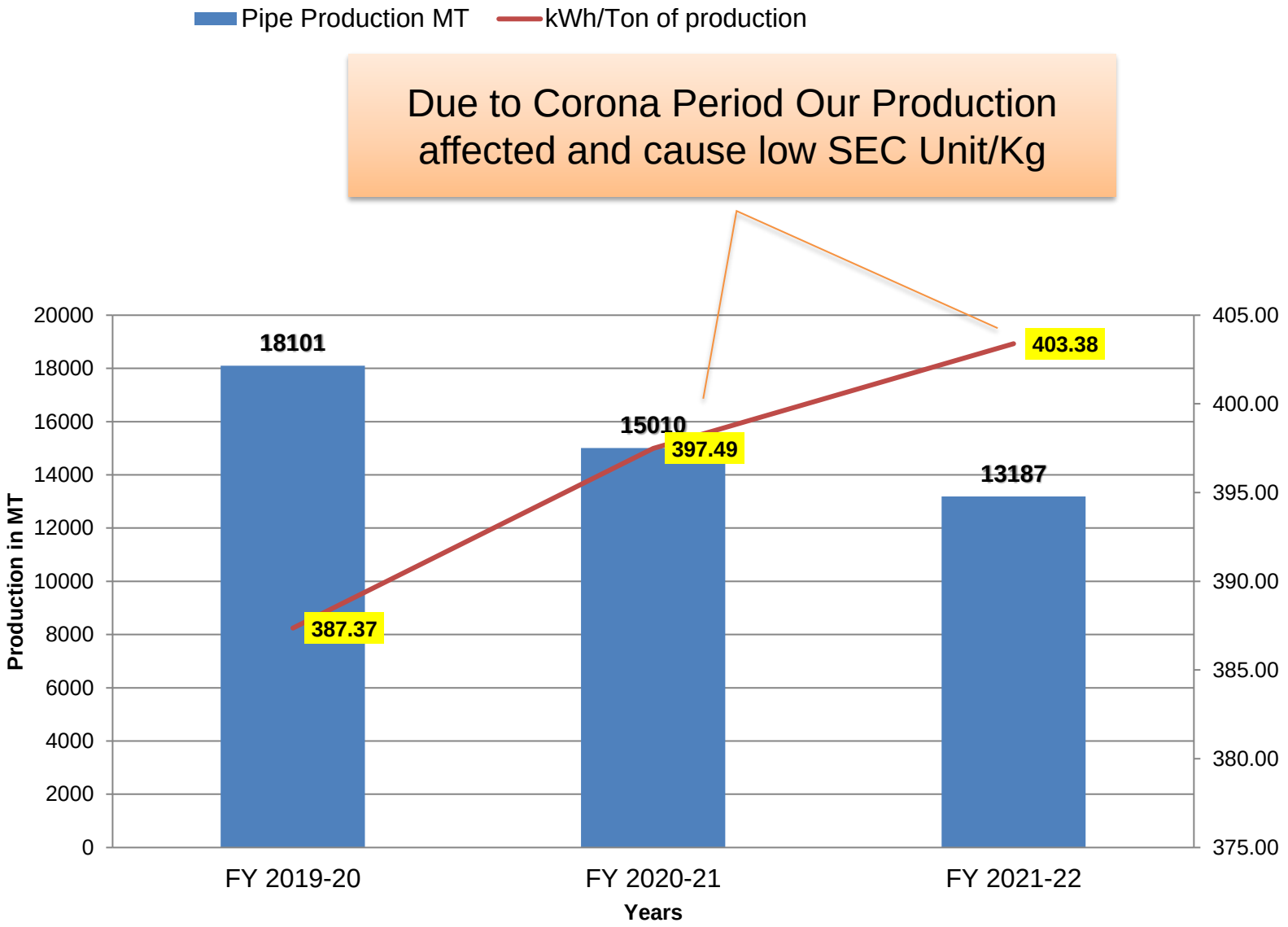
- Pipe division products : UPVC : agriculture, swr, casing, astm and colum pipe
- Machine : 14 extruder for pipe making
- Mixer : 5 for raw material mixing and compounding
- Grinder and Pulverizer : 5 nos
- Cnc machine : 6 nos for Threading in Column Pipe
- Lathe machine : 6 nos for 4” to 8” threading in Casing Pipe
- Rotional moulding : 2 machines for PVC tank manufacturing
- Transformer : 2 ,- 1500 kva and 1600 kva
- Dg set : 2, - 1010 kva each
- Compressor : 3, total 500 cfm
- Chiller : 3, total installed capacity 309 TR
- Cooling tower : 2, 400 tr each

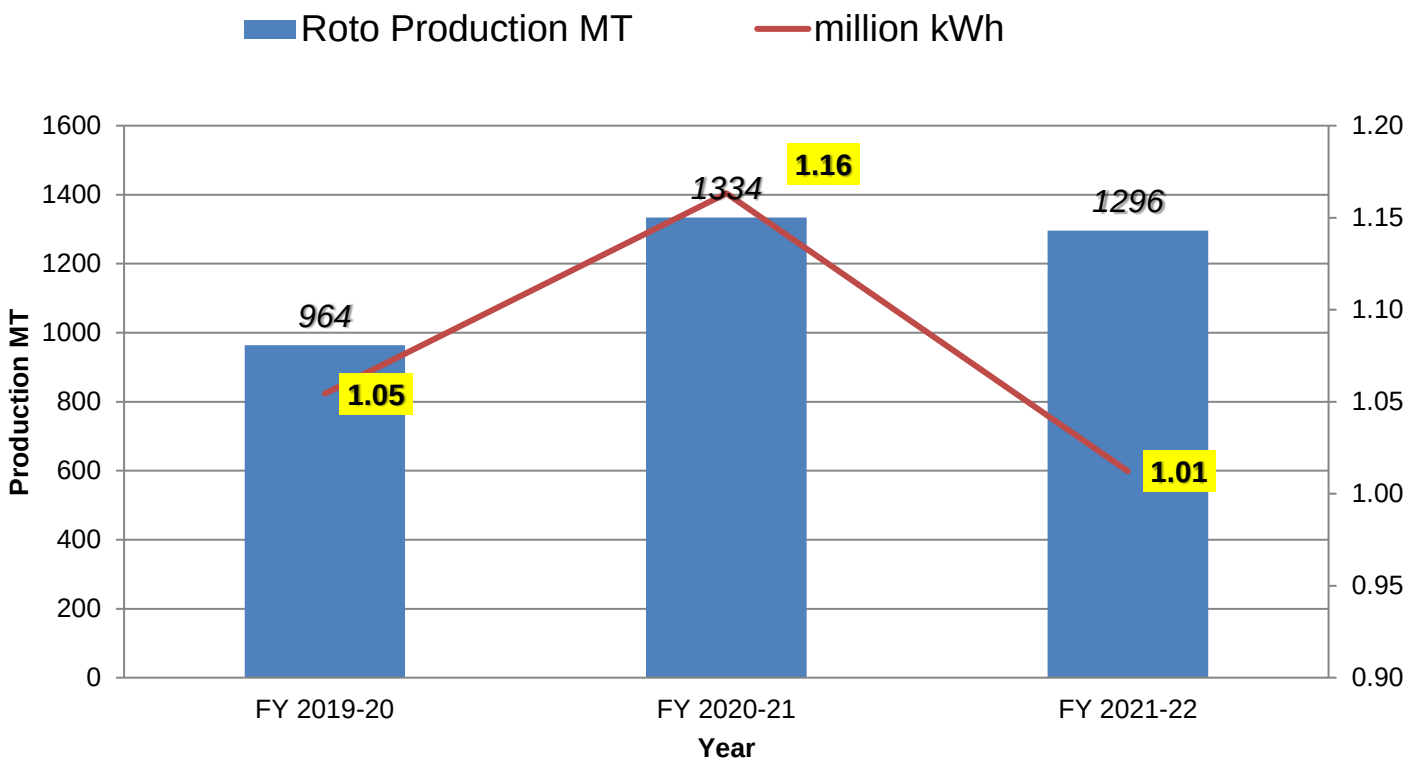
Production Vs Energy Consumption



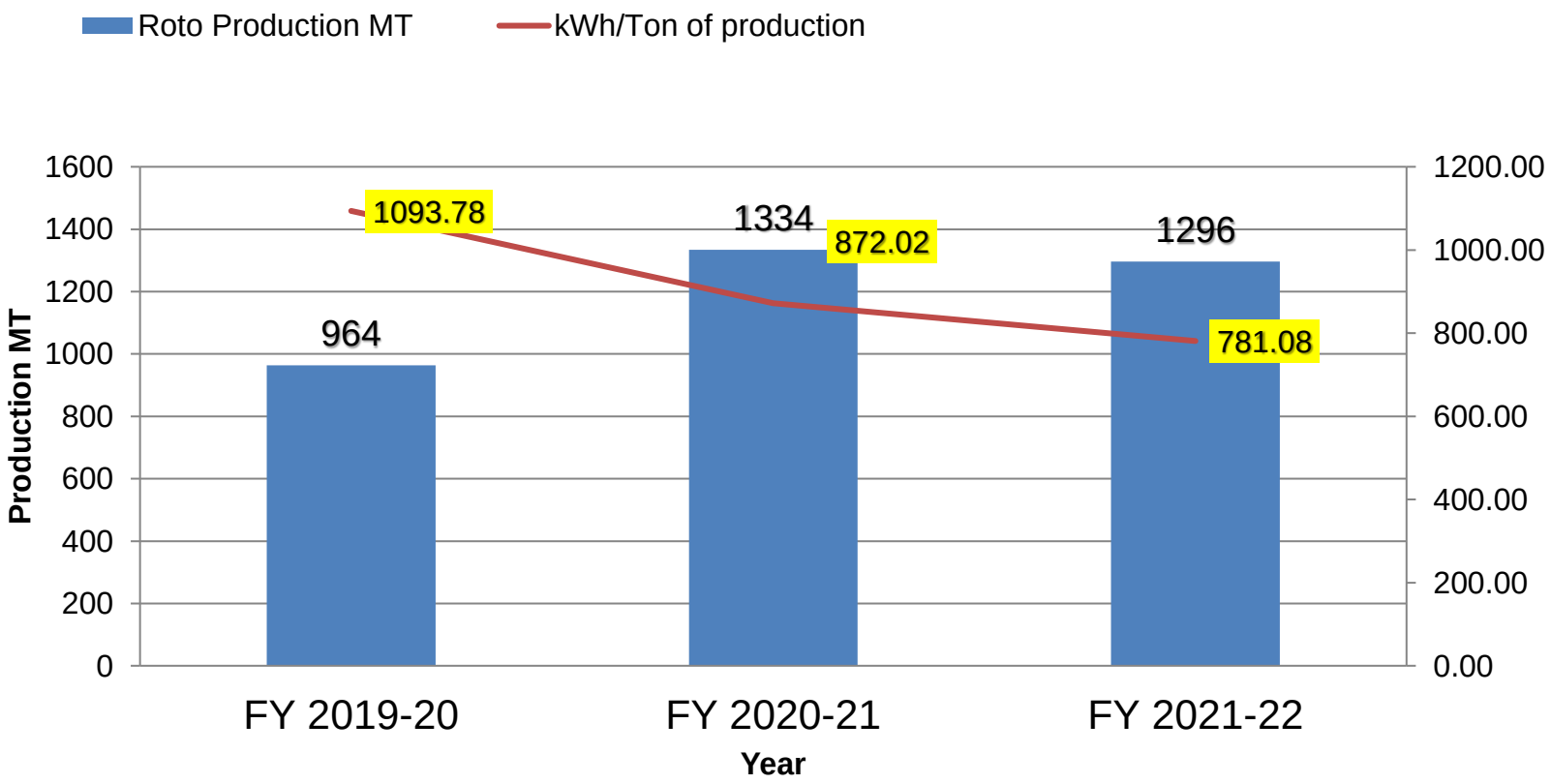
Pipe Plant Production Vs Specific Energy Consumption



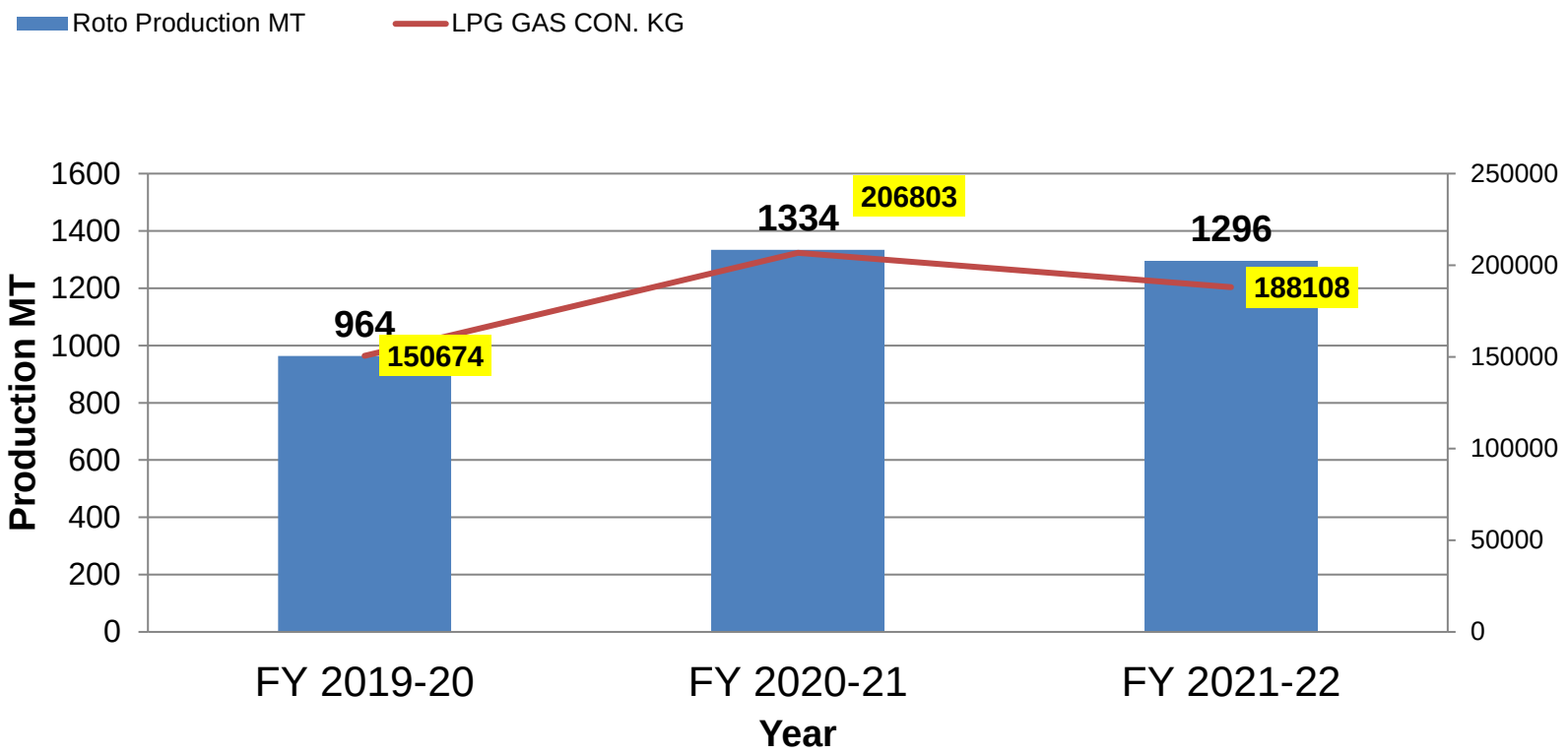
Roto Plant Production Vs Energy Consumption



Roto Plant Production Vs Elect SEC



Roto Plant Production Vs Thermal En. Cons.



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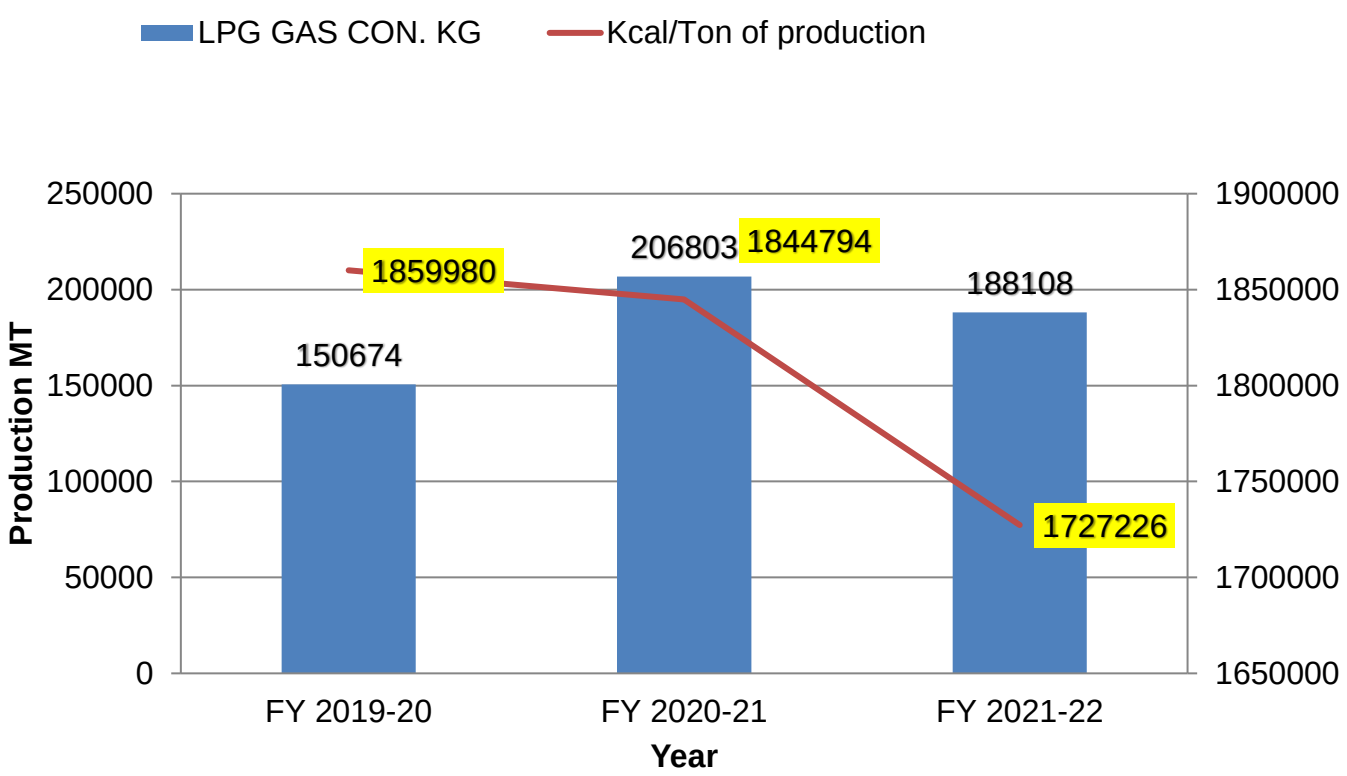


Internal Bench Marking

Kwh/Ton (Pipe) : 380

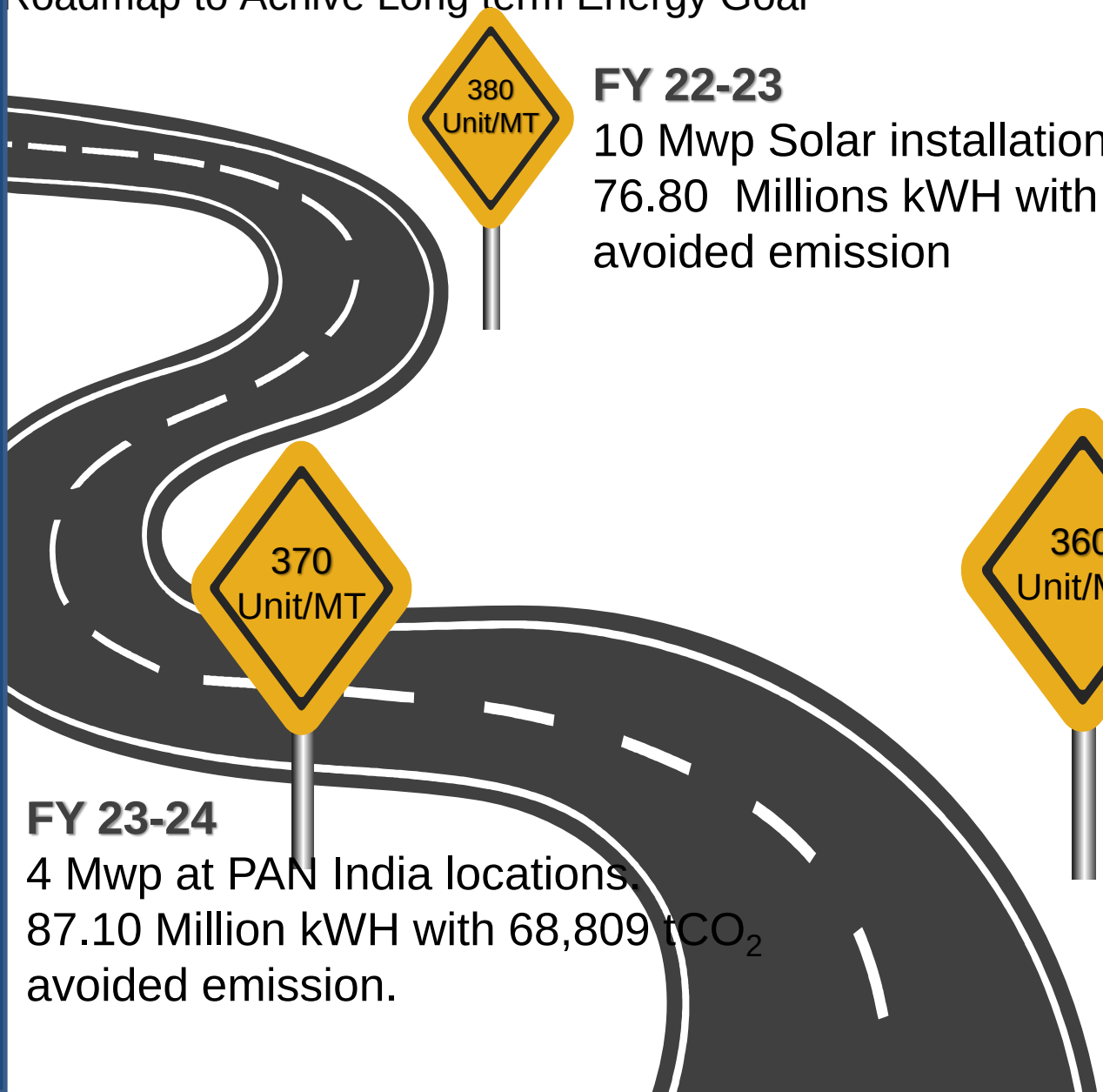
Kwh/Ton (Roto) : 770

Kcal/Ton (Roto) : 1680000

Long Term Energy Goals

Iong Term Goal for Pipe		
Year	kWh/Ton of production	
FY 2022-23	380	
FY 2023-24	370	
FY 2024-25	360	
Iong Term Goal for Roto		
Only Pipe	**kWh/Ton of production**	**kcal/Ton of Production**
FY 2022-23	770.00	1720000
FY 2023-24	760.00	1700000
FY 2024-25	750.00	1680000

Roadmap to Achive Long term Energy Goal



FY 22-23

10 Mwp Solar installation under pipeline.
76.80 Millions kWH with 60,700 tCO_2 avoided emission

FY 24-25

4 Mwp at PAN India locations.

FY 23-24

4 Mwp at PAN India locations.
87.10 Million kWH with 68,809 tCO_2 avoided emission.

Energy Saving Projects

Year	No of Energy Saving Projects	Investments (INR Million)	Electrical Saving (Million KWH)	Thermal Saving Million Kcal/MTOE	Saving INR(Million)	Payback Period	Impact on SEC (Electrical,Thermal)
FY 2019-20	2	0.11	0.169		1.499	1 month	1%
FY 2020-21	1	1.042	0.450924		3.95	3 month	1.50%
FY 2021-22	2	34	0.073362	48.12	4.68	10 Months	5%

Innovative Projects Implemented

Energy Saving Through Processes control/Temperature Control

Before		After		Effects		
Technology Used	KWh for A Year	Technology Used	KWh for A Year	Annual Energy Consumption	Saving %	Saving In Million Rs
Centralized Chiller for all Machines	1261098	Dedicated chiller for Product Specific and for Summer Only	249600			
Cooling Tower for Ciller Condenser	264237.4006	Cooling Tower for Chiller Condensor	276820.134			
Net Energy Consumption	**1525335.401**		**526420.134**	998915.2666	65%	87.4051

Thermal Energy Saving Through Processes optimization in rotational Moulding

Before		After		Effects		
Technology Used	Specific LPG Gas Consumption	Technology Used	KWh for A Year	Annual Energy Consumption	Saving %	Saving In Million Rs
Only 4 Mould Can Load at a time on Web	0.13	Only 4 Mould Can Load at a time on Web	0.1			
Average Production In Year (MT)	1400	Cooling Tower for Chiller Condensor	1400			
Total Gas Consumption in a Year (MT)	**182**		**140**	42	23%	**0.035**

Pump Room Renovation

FY 2021 : Replaced Old Cooling Tower to 400x2 = 800 tr cooling Tower

FY 2021 : Replaced old Monoblock Pump to Energy Efficient (mechanical Seal Pump

FY 2021 : Replaced underground MS pipe to PPR Line Fitting to improve flow and avoid corrosion.

Activity under Environmental Management System

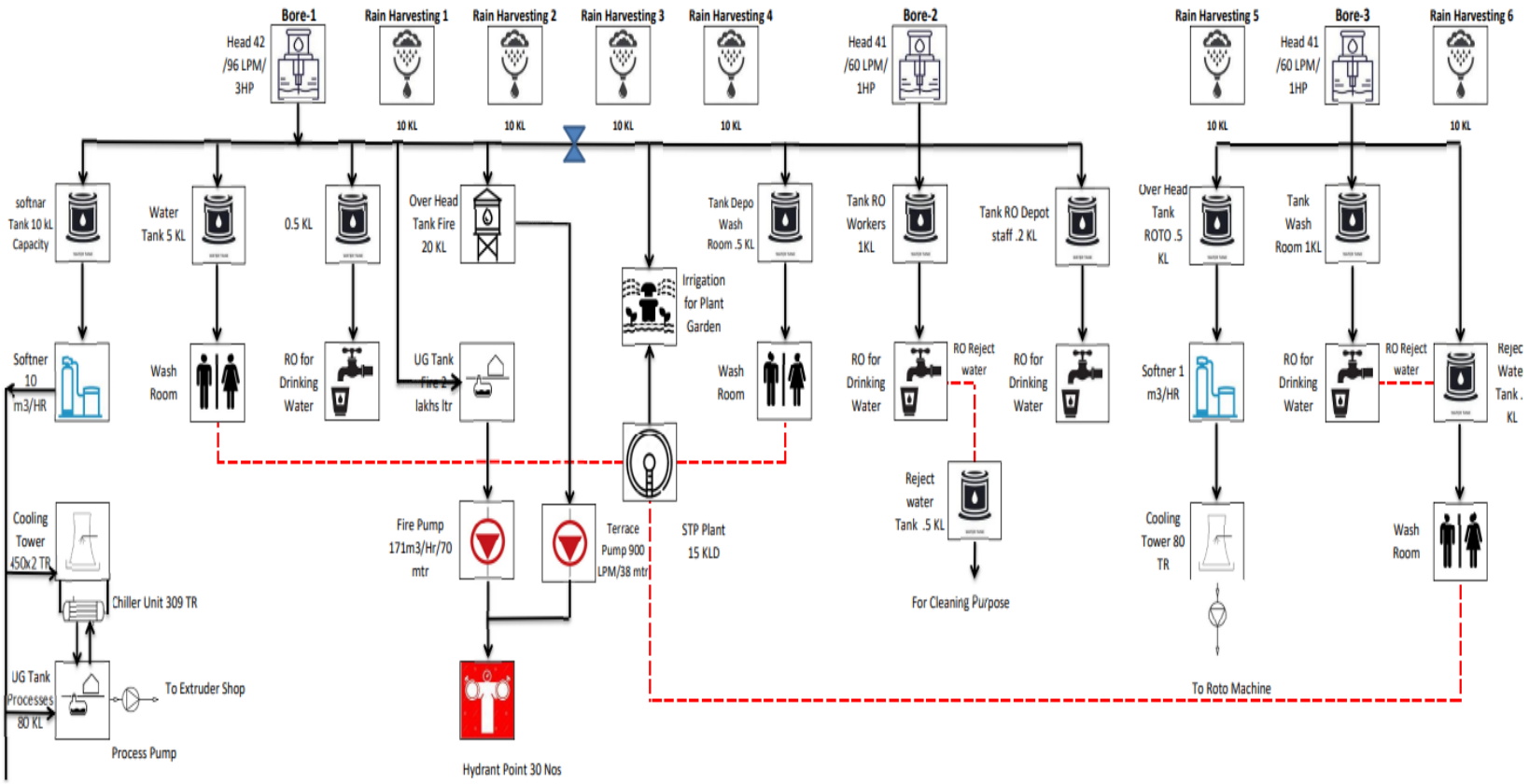
FY 2021 : Install STP of 15 KLD Capacity

FY 2122 : Replace all Bore Flow meter to Digital Flow Meter (Cloud data based monitoring)

FY 2122 : Insatall **Piezometer for ground level Monitoring (Cloud based Monitoring)**

FY 2021 : Add 20 KL more Over Head Tank Capacity for Fire Hydrant System to use water flow as gravity in absence of Power.

Water Management SLD



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Solar Power Generation FY 2022-23

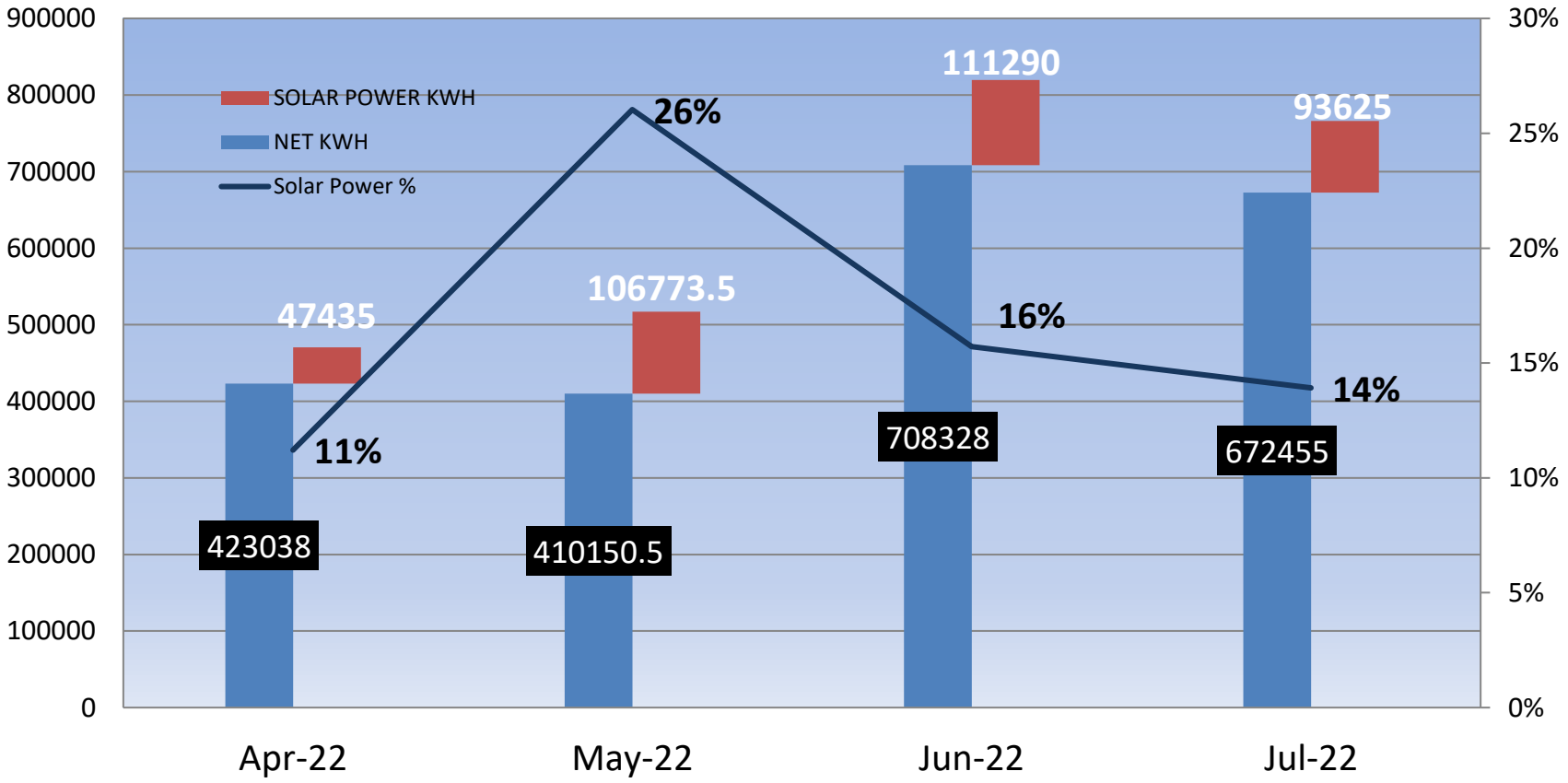
MONTH	ENERGY KWH	DG KWH	SOLAR POWER KWH	TOTAL KWH	Solar Power %	Solar Power % without DG
Cummulative	1738920	115928	**359124**	2213972		
Avearge	434730	28982	**89781**	553493	**16%**	**21%**
Apr-22	320340	55263	**47435**	423038	**11%**	**15%**
May-22	295480	7897	**106774**	410151	**26%**	**36%**
Jun-22	574480	22558	**111290**	708328	**16%**	**19%**
Jul-22	548620	30210	**93625**	672455	**14%**	**17%**

Insatalled Capacity **1MW (978 Kw DC/836 Kw AC)**

Type **Onsite generation**

Investment **33.93 Million Rs**

Solar Generation Vs Conventional Power



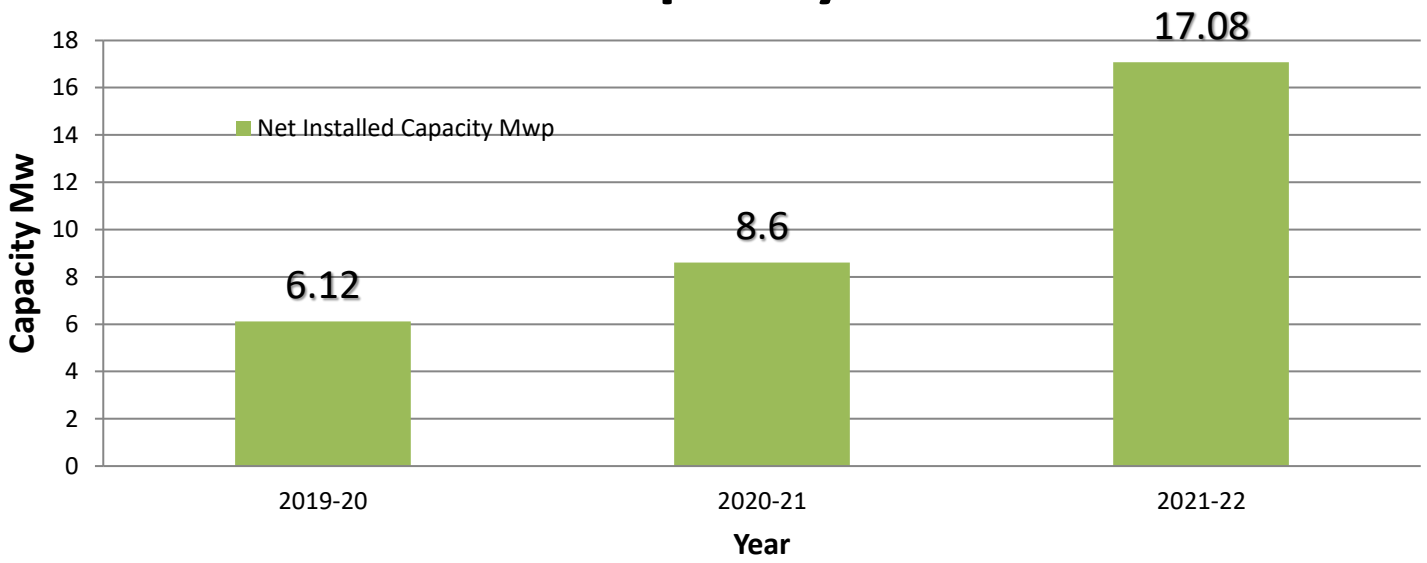
Utilization of Renewable Energy sources

Year	Technology	Type of energy	Onsite/Offsite	Installed Capacity Mwp	Generation In Millions	Utilisation of Renewable energy in Millions Units	% of overall electrical energy (Overall Green energy)
2019-20		Solar	Onsite	6.12	4.96	16.98	6.27%
		Wind				7.89	2.91%
2020-21		Solar	Onsite	2.48	4.22	16.64	6.60%
		Wind				8.67	3.44%
2021-22		Solar	Onsite	8.48	4.85	22.73	8.52%
		Wind				10.28	3.85%

Investment made for roof top solar-

Up-to 2019-20- Rs.20.93 Crores
2020-21- Rs. Nil
2021-22- Rs. 14.82 Crores

Year Wise Capacity Installed



Energy Mix Consumption

Particulars	Wind Units	Solar Capex	Solar Third Party	Hybrid Units	Total Of Green Energy	DG Units	Discom Unit
FY 2019-20	2.91%	1.83%	4.44%	-	9.18%	1.61%	89.21%
FY 2020-21	3.44%	1.67%	4.93%	-	10.04% ↑	1.15% ↓	88.81% ↓
FY 2021-22	3.85%	1.82%	6.70%	-	12.37% ↑	1.02% ↓	86.61 % ↓
FY 2022-23 (Budgeted)	4.84%	10.09%	9.18%	1.15%	25.26% ↑	0.89% ↓	73.85% ↓
FY 2023-24 (Budgeted)	4.60%	9.15%	9.08%	4.44%	27.27% ↑	0.84% ↓	71.89% ↓

Waste Management System

S.No	Financial Year	Type of Waste	Quanity	Disposal Method
1	**2019-20**	Plastic waste (Woven Sack)	125	Sold to Government Authorised Vendor
2	**2019-20**	Wodden (Packing Material)	1.13	
3	**2019-20**	Metal Scrap	15.05	
4	**2019-20**	Waste Oil	0.68	
Net Qyantity of Year 2019-20			**141.86**	
5	**2020-21**	Plastic waste (Woven Sack)	113.3	Sold to Government Authorised Vendor
6	**2020-21**	Wodden (Packing Material)	0.71	
7	**2020-21**	Metal Scrap	13.14	
8	**2020-21**	Waste Oil	0.57	
Net Qyantity of Year 2020-21			**127.72**	
9	**2021-22**	Plastic waste (Woven Sack)	105.2	Sold to Government Authorised Vendor
10	**2021-22**	Wodden (Packing Material)	5.98	
11	**2021-22**	Metal Scrap	12.09	
	2021-22	Waste Oil	0.23	
Net Qyantity of Year 2021-22			**123.5**	

GHG Invetorisation and public disclosure

Company listed at stock exchange and GHG data available in BRSR along with Annual report.

Scope of emission

Scope-1- emission from owned resources i.e. Diesel consumed in DG sets, petrol/diesel in vehicle, LPG combustion, refrigerant.

Scope-2- energy purchased from discom

Scope-3- T&D losses from discom, upstream fuel transport, employee commute, upstream transportation, downstream transportation.

Emission Intensity - Kg Co2/Ton of Final Product

2019-20	2020-21	2021-22
368.82	393.03	381.56

Absolute Emission :

2019-20-	2020-21-	2021-22-
7033.86 TCo2	6360.62 TCo2	5499 Tco2

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Target for Co2 emission reductions

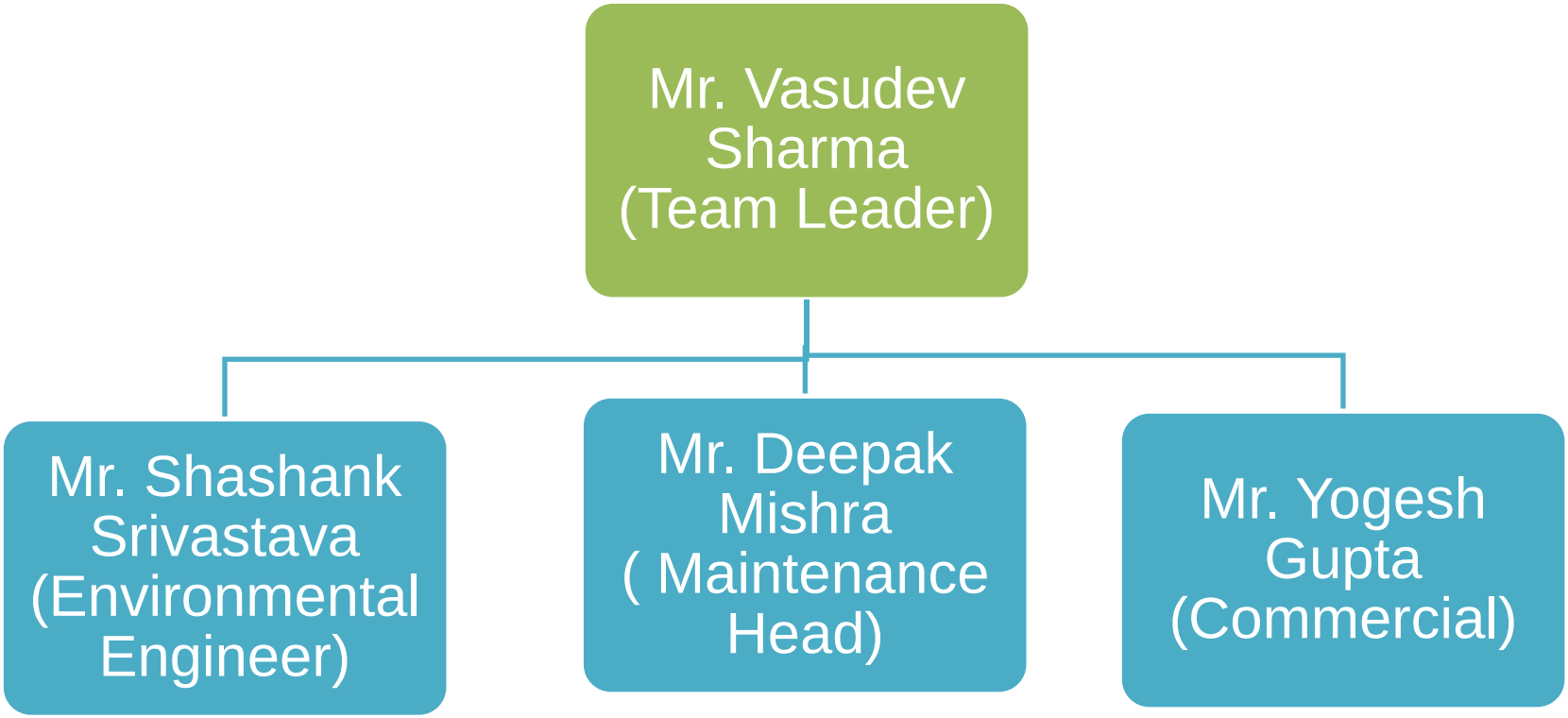
Short Term Targets

- Company is planning to replace 25% of Grid energy with renewable source of energy by year (2024-2025) which was 12.37% in FY 21-22.
- Energy cost reduction by 8-9 % in 3 years by increasing Green energy quantum.
- Company is targeting to reduce emission intensity kg CO_2/MT of production by 2% to 3% every year up-to year 2024-2025.
- FY 22-23 : 10 Mw Solar installation under pipeline.
- FY 23-24 : 4 Mw at PAN India locations.
- FY 24-25 : 4 Mw at PAN India locations.
- FY 22-23 76.80 Millions kWH with 60,700 tCO_2 avoided emission.
- FY 23-24 is 87.10 Million kWH with 68,809 tCO_2 avoided emission.
- Exploring renewable hybrid power at Erode Plant, discussion going on.
- All our major Energy consuming plants to be energy certified ISO 50001-2018 by year 2023-24.
- Six plant ISO-50001 certification work going and stage-I audit by external agency is planned in Aug-22.
- Hybrid Power to be supplied at GIDC/Muvala Plant from Sep-22 onwards.
- Group Captive Power to be supplied at Noida/ Kanpur Unit from Nov-22 onwards.

Long Term Target

- Reducing energy purchase cost of the organization by efficient tariff utilization 2-3% yoy basis.
- Fuel substitution from LPG to PNG/LNG for boiler operation in Kharagpur/Urse.
- Supreme Low Carbon Strategy to reduce the CO_2% throughout its manufacturing process by introducing new technology and high energy efficient equipment.
- Kanpur unit installed 0.978 Mwp Roof Top Solar Plant from which we will avoid emission 1,081 T Co2. We have also signed 2 Mwp Solar Power PPA with developer Fourth Partner which will also increase our green energy ratio and reduce carbon emission.
- Kanpur Plant also Replacing LPG to PNG Gas Having following advantage
- PNG being a cleaner fuel with low carbon gas will reduce our GHG Emission(carbon foot print reduced)- 188 t LPG consumption in year (21-22) there is saving of 206 Tco2 annually (562 Toc2 will 356 Tco2 (PNG)
- Fuel transport Carbon foot print of Gas transportation will reduced – 5000 km/ 4 litre/km =1250 litre*2.69/1000= 3.63 Tco2 annually.

Energy & Environment Team



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THANK YOU