

Energy audit report of M/s Abhishek Alloys Pvt Ltd, Belgaum

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Contents

ACKNOWLEDGEMENT

EXECUTIVE SUMMARY	I
1.0 PRODUCTION AND ENERGY CONSUMPTION	1
1.1 Introduction.....	1
1.2 Process flow diagram	1
1.3 Production and energy cost.....	2
1.4 Energy sources availability and tariff details.....	2
1.5 Energy consumption	3
1.6 Performance indicators	3
1.6.1 Capacity utilization	3
1.6.2 Net yield	3
1.6.3 Specific energy consumption	3
2.0 ELECTRICAL SYSTEMS.....	5
2.1 Facility description	5
2.1.1 General	5
2.1.2 Electricity consumption data	5
2.2 Observation and analysis	6
2.2.1 Electrical power measurement	6
2.2.2 Main system parameters.....	7
2.2.3 Transformer	7
2.2.4 Power factor management	7
2.2.5 Load factor of plant	8
2.3 Energy conservation measures	8
2.3.1 Improving power factor and demand reduction	8
2.4 General recommendations	9
3.0 FURNACE	11
3.1 Facility description	11
3.2 Observation and analysis	11
3.3 Energy conservation measures	12
3.3.1 Installation of lid mechanism for induction furnace	12
3.3.2 Staggering the starting time of two furnaces to avoid holding of one furnace for first pour of day	13
4.0 COMPRESSED AIR SYSTEM.....	15
4.1 Facility description	15
4.2 Observation and analysis	15
4.2.1 Performance assessment of air compressor	15
4.2.2 Leakage test	16
4.3 Energy conservation measures	17
4.3.1 Arresting leakages, creating ring main and reducing pressure in compressed air system.....	17

5.0 PUMPING SYSTEM AND COOLING TOWERS.....	19
5.1 Facility description	19
5.2 Observation and analysis	19
5.2.1 Pumps	19
5.2.2 Cooling towers in the plant.....	20
5.3 Energy conservation measures.....	20
5.3.1 Replacement of existing coil cooling pump with energy efficient pump	21
5.3.2 Replacement of existing raw water pump for panel cooling PHE with energy efficient pump	21
6.0 MOTORS.....	23
6.1 Facility description	23
6.2 Observations and analysis.....	23
6.2.1 On -load motor test	23
6.3 Energy conservation measures.....	24
6.3.1 Replacement of flat V-belt with cogged V-belt and strengthening the base of 100 hp blower motor.....	24
6.4 General observations and recommendations	24
7.0 LIGHTING SYSTEM.....	27
7.1 Facility description	27
8.0 SUMMARY OF POTENTIAL SAVINGS.....	29
8.1 Summary of recommendations.....	29
8.2 Recommended energy conservation measures	29
8.3 Lifetime energy and CO ₂ savings.....	30
8.4 Renewable energy recommendation.....	31
Annexure: 3.2 Logging of induction furnace	35

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It is well worthy to mention that the efforts being taken and the enthusiasm shown by all the plant personnel towards energy conservation and sustainable growth was really admirable. We found all the personnel keen to implement the possible energy conservation aspects.

Last but not least, the interactions and deliberations with cluster coordinating agencies, industry associations, technology providers and who were directly or indirectly involved throughout the study were exemplary and the whole exercise was thoroughly a rewarding experience for TERI.

The Energy and Resources Institute (TERI)
New Delhi

Executive summary

A detailed energy audit at M/s Abhishek Alloys was conducted to identify the potential of energy savings. This report provides details of energy audit such as areas covered under the study, performance assessment of different equipment, potential areas for energy saving and estimated energy and cost savings along with investment required and payback periods. It provides insights to the plant for proper planning of investments on energy conservation recommendations.

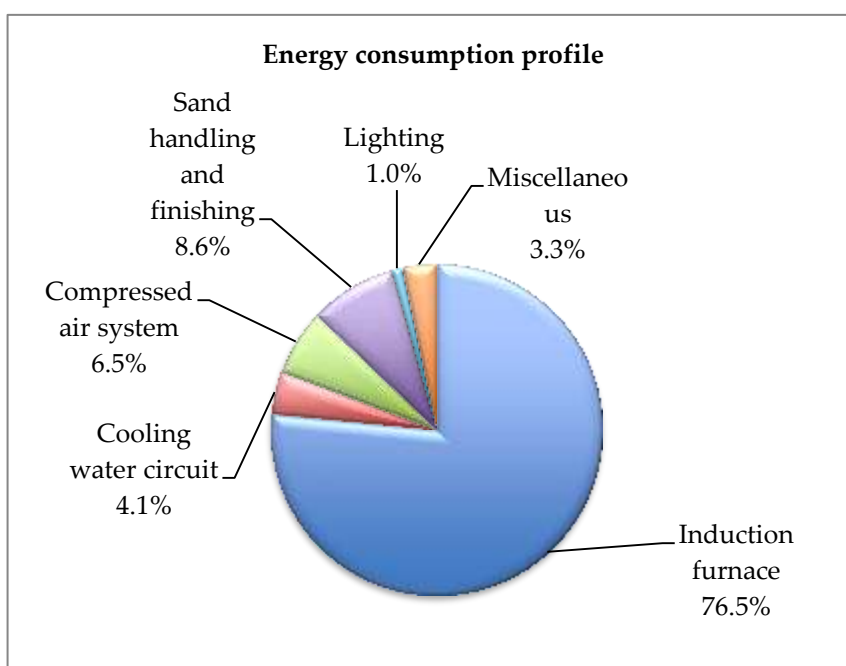
Brief Introduction of the foundry unit

Name of the Unit	M/s Abhishek Alloys
No. of years in operation	21
Factory address	Plot 58. Machhe Industrial Estate, Belgaum, Karnataka – 590 014
Type of industry	Spheroidal Graphite (SG) Iron and graded Cast Iron castings
Hours of operation per day	16
Number of days of operation per year	300
Energy used	Electricity

A detailed performance study was undertaken in the identified areas with the use of the sophisticated handheld instruments. Energy consumption pattern and production data were collected to estimate the specific energy consumption of the unit. The unit level baseline of the unit was also estimated using the historical data. The total energy consumption of the unit during FY 2014 – 15 was 291.6 toe (~3.4 million kWh) which is equivalent to 228.1 lakh rupees. The total CO₂ emission during this period is estimated to be 3,323 tonnes. Electricity was considered for CO₂ emission estimation.

The main source of the energy consumption in the plant is electricity used in induction melting furnace and to drive the process equipment and other auxiliaries, various utilities.

The unit manufactures ductile iron and graded CI castings which include gears and machine tools and supplies to various industries. The unit uses green sand and silicate sand moulding process. The total liquid melting



production of the unit during 2014 – 15 was 3,341 tonnes and dispatched production was 2,105 tonnes. The plant has an installed capacity of 400 tonnes per month. With respect to production in financial year 2014 – 15 the capacity utilization factor for the unit is 70%. The net yield of unit is around 62%.

The energy consumption in the plant is mainly for following: induction furnace, cooling water circuit, compressed air system, sand handling, finishing, lighting and miscellaneous. A pie chart depicting share of each area/section is given in figure.

Summary of energy conservation measures identified in unit

Key recommendations made in this energy audit report are summarised below.

S. No	Energy conservation measures	Annual energy savings	Investment	Savings	Simple Payback
		Electricity (kWh)	Rs Lakh	Rs Lakh/year	year
1	Power factor improvement	6,937	1.73	1.91	0.9
2	Lid mechanism for induction furnace	34,212	4.00	2.16	1.9
3	Staggering the starting time of two furnace to avoid holding of one furnace for first pour of day	18,750	-	1.18	-
4	Arresting leakages, creating ring main and reducing pressure in compressed air system	43,236	2.00	2.73	0.7
5	Replacement of raw water pump for panel cooling with energy efficient pump	6,170	0.55	0.39	1.4
6	Replacement of coil cooling pump with energy efficient pump	16,093	0.55	1.02	0.5
7	Replacement of flat V-belt with cogged V-belt and strengthening the base of 100 hp blower motor	6,441	0.20	0.41	0.5
Overall		131,838	9.0	9.8	0.9

Total seven energy conservation measures are identified. Implementing them would attract a one-time investment of Rs 9.0 lakh; it would lead to annual savings of Rs 9.8 lakh. This would result in reduction in energy consumption by 3.9%. The specific energy consumption of entire foundry would improve from 1,611 kWh per tonne to 1,549 kWh per tonne.

1.0 Production and energy consumption

1.1 Introduction

M/s Abhishek Alloys foundry unit was set up in 1994. The unit manufactures SG iron and graded CI castings and supplies to various industries. The unit has an installed capacity of 400 tonnes per month. Brief summary of unit is given in table 1.1.

Table 1.1: Brief description of unit

Name of the unit	M/s Abhishek Alloys
No. of years in operation	21
Factory address	Plot 58. Machhe Industrial Estate, Belgaum, Karnataka – 590 014
Type of industry	Spheroidal Graphite (SG) Iron and graded Cast Iron castings
Hours of operation per day	16
Number of days of operation per year	300
Energy used	Electricity

1.2 Process flow diagram

The major steps of process are mould sand preparation, charge preparation followed by melting, pouring, knockout and finishing. The unit uses green sand moulding process. The process flow diagram is shown in figure 1.2.

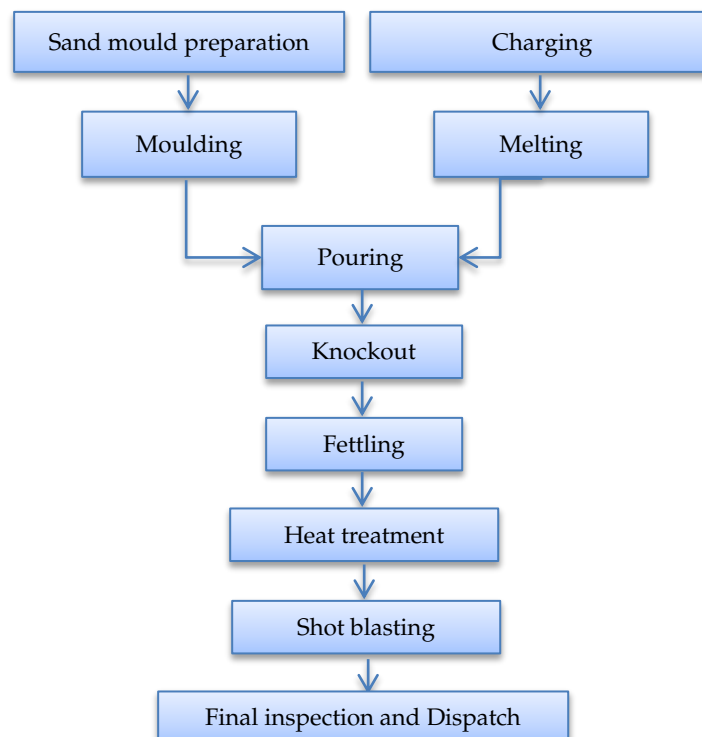


Figure 1.2: Process flow chart

1.3 Production and energy cost

The energy and production data for available period was taken from the unit for the analysis. The total liquid melting production of the unit during 2014 – 15 was 3,341 tonnes and dispatched production was 2,105 tonnes. The overall energy cost incurred for this production was 228.1 lakh rupees. Figure 1.3 refers the monthly production and energy cost profile of the unit.

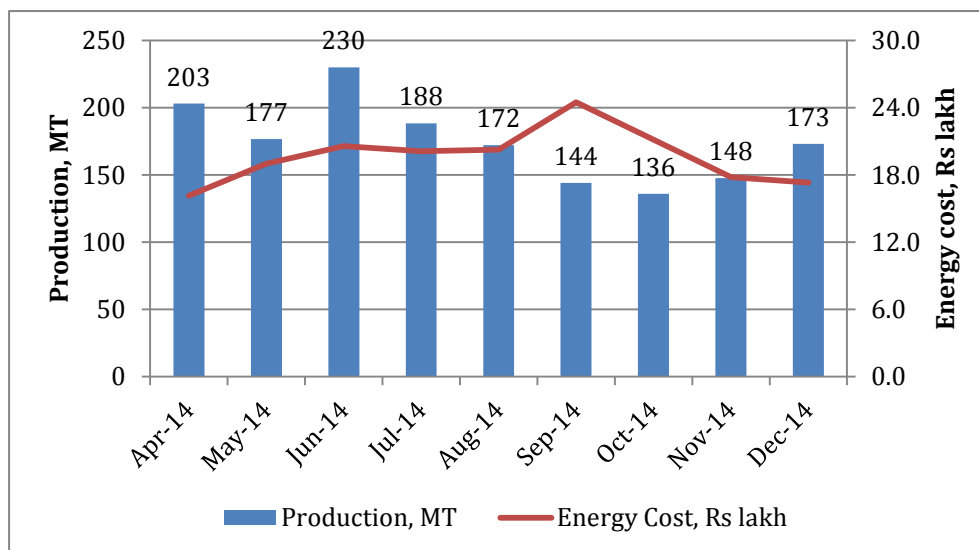


Figure 1.3: Production and energy cost profile

1.4 Energy sources availability and tariff details

Availability of listed energy types as above and their respective tariffs are given in table 1.4.

Table 1.4: Energy sources, availability and tariffs

S No	Energy source	Availability	Tariff details
1	Electricity	Supplied by HESCOM	Tariff category: HT-2(a) Voltage of supply: 11 kV Demand charges: Rs 170/kVA Energy charges: Rs 5.7/kWh (up-to 100,000 units) Rs 6.0/kWh (beyond 100,000 units) Time of day charges: 2200-0600: Rs -1.25/kWh 0600-1800: Rs 0.00/kWh 1800-2200: Rs +1.00/kWh PF penalty charges: For every 0.01 drop below 0.90, penalty Rs 0.03/kWh

1.5 Energy consumption

The total energy consumption of the unit during FY 2014 – 15 was 291.6 toe (~3.4 million kWh) which is equivalent to 228.1 lakh rupees. The total CO₂ emission during this period is estimated to be 3,323 tonnes. Electricity was considered for CO₂ emission estimation.

1.6 Performance indicators

1.6.1 Capacity utilization

The unit has an installed capacity of 400 MT per month. The actual monthly average melting is 278.4 MT. Thus, the capacity utilization (CU) of plant is 70%. The CU varies between 54 – 96%. The CU is low due to lack of orders, thus the plant operates 14 – 16 hours per day only.

1.6.2 Net yield

The raw material consumption of foundry is around 285.4 tonnes per month and net casting sold is 175.4 tonnes per month. The net yield of foundry is 62%. The net yield depends on melting loss with spillage, runner and risers, rejection and net yield of foundry.

1.6.3 Specific energy consumption

The average specific energy consumption (SEC) of the plant for the year FY 2014 – 15 was estimated based on the monthly consumption of electricity and monthly production. The overall SEC is estimated to be 1,611 kWh per metric tonne of production. The SEC for induction furnace for melting is estimated to be 684 kWh per tonne of melting.

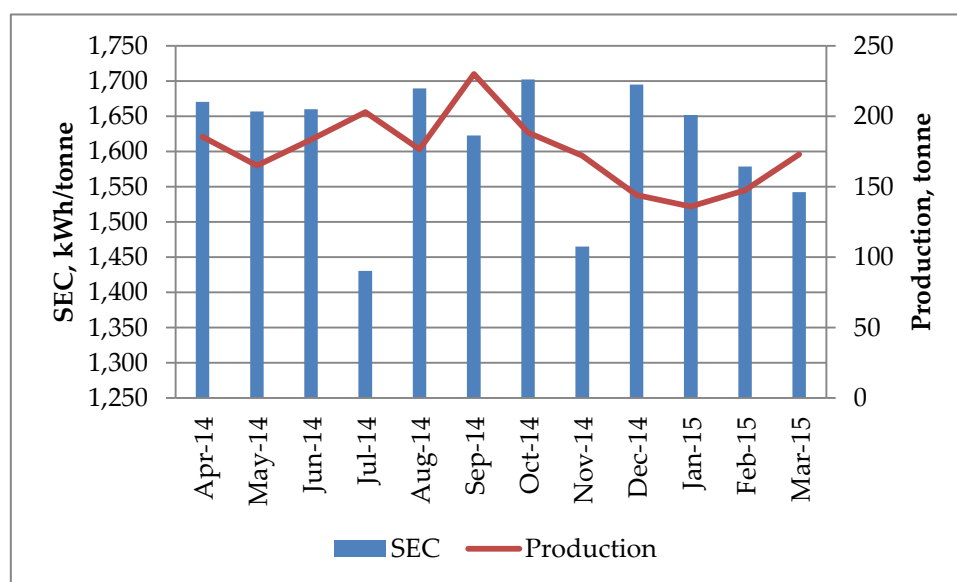


Figure 1.6.3: SEC and production profile

2.0 Electrical systems

2.1 Facility description

2.1.1 General

The main source of electricity for M/s Abhishek Alloys is from Hubli Electricity Supply Company Ltd (HESCOM) at 11 kV grid supply. The 11 kV Main Receiving Station (MRS) is located within the plant premises. The power supplied at 11 kV is step down to 433/460 V using two transformers (1250 kVA for furnace and 325 kVA for auxiliary) and is fed to the respective power distribution board (PDB) and light distribution board (LDB) at 415/460 V through the LT switchgear located at main substation. Table 2.1.1 shows the design specifications and no-load and full-load losses of installed transformer.

Table 2.1.1: Technical specifications of transformer

Parameters	Transformer-1	Transformer-2
Rating (KVA)	1250	325
Application	Induction furnace	Auxiliary
Type	ONAN	ONAN
Primary Voltage (V)	11,000	11,000
Primary Current (Amps)	64.0	-
Secondary Voltage (Volts)	460	433
Secondary Current (A)	1569	-
Rated No Load Loss (kW)	1.8	0.7
Rated load loss (kW)	12.5	3.5

The rate of power failure in Belgaum, Karnataka is insignificant. To maintain the power factor near to unity, plant has provided the power factor correction system at main incomer at power control centre (PCC) level.

2.1.2 Electricity consumption data

The power supply to the facility is from HESCOM grid under the tariff category HT-2(a), with 1300 kVA contract demand. The minimum billing demand is 975 kVA (75% of the contract demand). The detail of electricity consumption is given in the table 2.1.2.

Table 2.1.2: Monthly electricity consumption details

Month & Year	Electricity consumption (kWh)	Power factor	Billed demand (kVA)	Demand charges (Rs)	Energy charges (Rs)	Monthly electricity bill (Rs)
Apr-14	309900	0.936	1064	180880	1,720,935	1,614,755
May-14	273405	0.930	1057	179690	1,610,430	1,898,257
Jun-14	304590	0.937	1086	184620	1,797,540	2,057,500
Jul-14	290400	0.933	1066	181220	1,712,400	2,010,654
Aug-14	298545	0.933	1063	180710	1,761,270	2,025,933
Sep-14	373200	0.941	1111	188870	2,209,200	2,447,548
Oct-14	320700	0.939	1109	188530	1,894,200	2,114,763
Nov-14	252000	0.934	1128	191760	1,482,000	1,780,590

Month & Year	Electricity consumption (kWh)	Power factor	Billed demand (kVA)	Demand charges (Rs)	Energy charges (Rs)	Monthly electricity bill (Rs)
Dec-14	244080	0.928	1044	177480	1,434,480	1,731,149
Jan-15	224640	0.927	1126	191420	1,317,840	1,602,093
Feb-15	232845	0.927	1073	182410	1,367,070	1,661,088
Mar-15	266790	0.929	1124	191080	1,570,740	1,863,234
Average	282591	0.933	1088	184889	1,656,509	1900630
Total	3391095			2218670	19878105	22,807,564

Important parameters only are presented in above table, details such as time of day tariff, electricity duty and others are not presented. Figure 2.1.2 presents the contract demand, billed demand and the energy consumed for the year FY 2014 – 15.

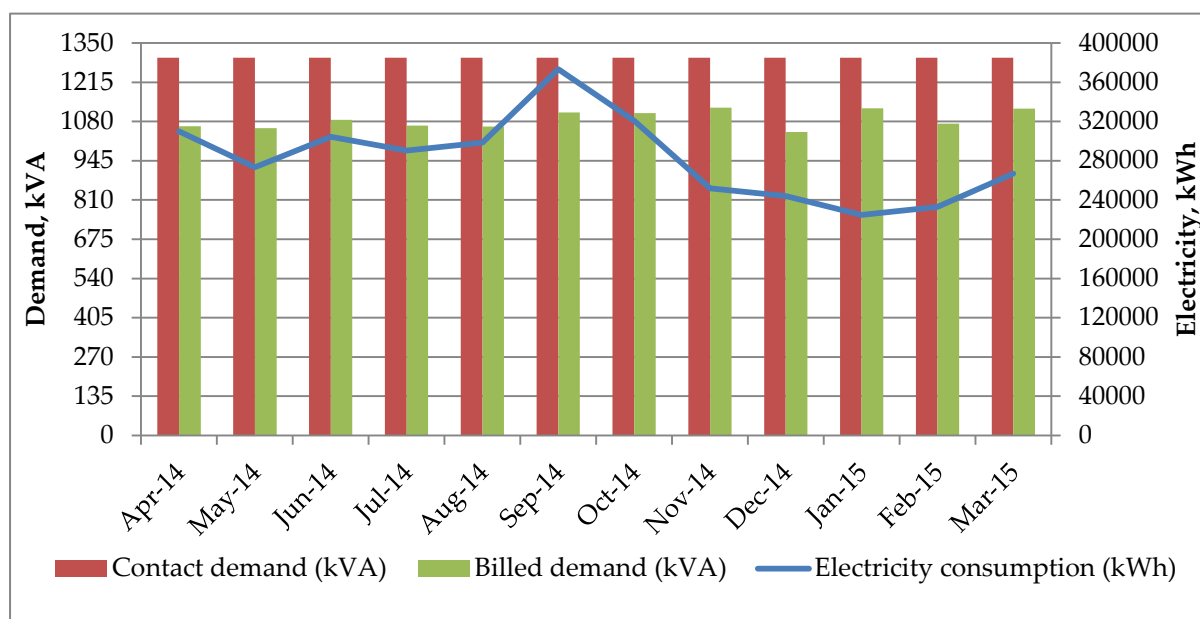


Figure 2.1.2: Demand and energy consumption pattern

As observed from above figure, plant has registered a maximum recorded demand of 1128 kVA in the month of November 2014 whereas the minimum recorded demand of 1044 kVA in the month of December 2014. The average recorded demand for the period was 1088 kVA and it is 84% of the contract demand. The average electricity consumption of the plant from HESCOM grid was about 282,591 kWh per month.

2.2 Observation and analysis

2.2.1 Electrical power measurement

Electrical power data logging was carried out on the main power incomer at LT feeder panel using three-phase power quality analyser extensively. All electrical parameters have been recorded for identification and analysis of demand and power factor management of the plant. The operating power parameters of distribution transformer at LT side were measured evaluate the operational efficiency pattern. Some necessary data has been taken from the plant services department logbook for historical pattern better analysis.

2.2.2 Main system parameters

The electrical and power parameters of 1250 kVA transformer are summarised in table 2.2.2.

Table 2.2.2: Summary of electrical and power parameters at main incomer

Parameters	Transformer 1250 kVA		
	Minimum	Average	Maximum
Voltage, Volt	352	452	472
Current, Amp	85.4	820.2	1300.6
Active Power (kW)	31.0	604.4	1014.6
Apparent Power (kVA)	52	642	1063
Power Factor, pf	0.595	0.941	0.954
% THD (Voltage)	0	8.1	11.9
% THD (Current)	0	24.5	49.6

Observation:

- The load at transformer is variable and it follows the power curve of induction furnace.
- The average demand is found to be about 642 kVA for transformer during the measurement period however; the demand is fluctuating due to instantaneous loads of the utility system. The maximum demand was 1063 kVA
- The total harmonic distortion in voltage and current is exceeding the permissible limit and this could be avoided by installation of harmonic filters.

2.2.3 Transformer

Plant is stepping down the electricity board power using the step down transformer of capacity 350 kVA. Summary of the loading pattern and respective operation efficiency of the transformer is given in table 2.2.3.

Table 2.2.3: Summary of the operational efficiency of transformer

Transformer	Load Conditions	Rated capacity, kVA	Calculated parameters	
			% Loading	% Efficiency
1250 kVA	Maximum	1250	85.1	98.94
	Minimum		4.2	94.45
	Average		51.4	99.16

The average operational loading of transformer is 51.4 % whereas the best efficiency point is 38.0% for given losses characteristics.

2.2.4 Power factor management

Plant has provided the power factor correction system at main incomer BUS at LT side as well as at PCC. The power factor pattern at main incomer and its variation with demand was analysed to understand the effect of the capacitor bank during the load changeability conditions. Power factor studied from past 12 months electricity bills and the measured power factor at transformer is given in figure 2.2.4.

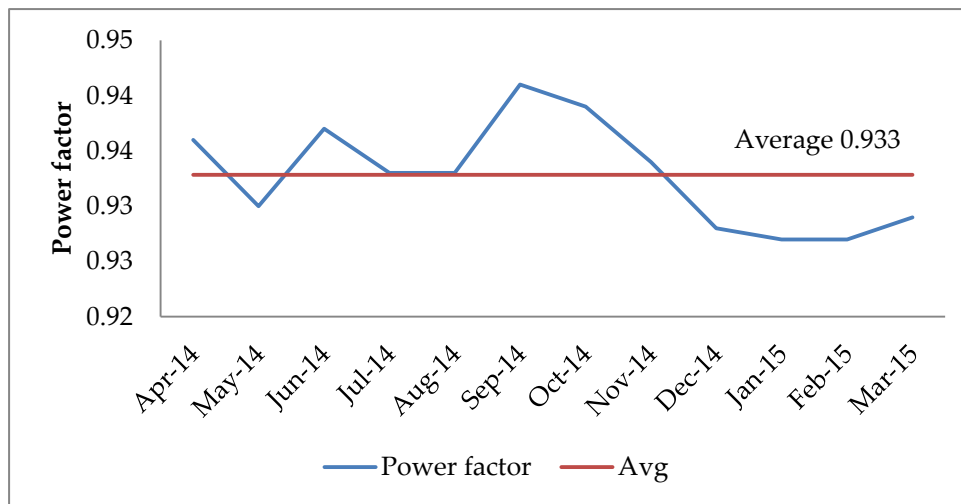


Figure 2.2.4: Power factor variation during the year 2014-15

It has been observed that the average power factor of the plant at main incomer is around 0.941 during measurement and average for past one year is 0.933. It also has been observed that the power factor correction system required capacity augmentation to maintain the power factor unity.

2.2.5 Load factor of plant

The average monthly electricity consumption of plant is 282,591 kWh. The plant operates for 16 hours daily. The peak demand of plant is 1088 kVA at power factor of 0.933 lag. This corresponds to a load factor of 69.6%. The load factor is good due to continuous running of induction furnace during operation period. It can still be improved by maintaining furnace at full power, when in operation.

2.3 Energy conservation measures

2.3.1 Improving power factor and demand reduction

The average power factor recorded in foundry was 0.933. The average billed demand is 1088 kVA and average maximum load is 1015 kW. The power can be still improved near to unity by connecting capacitor bank. The power factor is quite low at the unit is at verge of paying penalty.

It was recommended to install capacitor bank of 350 kVAr capacity. Poor power factor does not only increase the penalty in billing but also increases demand charges and distribution losses. This will also reduce the demand by 72 kVA. The estimated annual energy savings by improving power factor is 6,937 kWh equivalent to a monetary saving of Rs 1.91 lakh. The investment requirement is Rs 1.73 lakh with a simple payback period of 0.9 year.

A detailed cost benefit analysis is been given in Table 2.3.1.

Table 2.3.1: Cost benefit analysis

Actual Parameters	Unit	Value
Contract demand	kVA	1,300
Minimum billing demand (@75%)	kVA	975
Average billed demand	kVA	1,088
Existing power factor	pf	0.933
Proposed power factor	pf	0.999
Existing real load	kW	1,015
New demand	kVA	1,016
Reduction in demand	kVA	72
Capacitor bank requirement	kVAr	346
Savings Estimation	Unit	Value
Annual energy saving	kWh	6,937
	toe/year	0.60
Energy cost saving	Rs lakh/year	0.44
Demand cost saving	Rs lakh/year	1.47
Monetary saving	Rs lakh/year	1.91
Investment cost for capacitor bank	Rs lakh	1.73
Simple payback period	years	0.9
CO ₂ emission avoided	tCO ₂ /year	6.8

2.4 General recommendations

It was observed that current and voltage harmonics are crossing limits. In Karnataka as of now there is no penalty on harmonics but other states do have penalty. In future Karnataka may also introduce penalty on harmonics. The plant may consider installing harmonics filters. Table 2.4 gives details of harmonics.

Table 2.4: Details of harmonics

Parameters	Permissible limit	Measure value
% THD Voltage	5.0%	8.1%
% THD Current	8.0%	24.5%

3.0 Furnace

3.1 Facility description

The plant is equipped with one induction melting furnace of rating 450+450 kW and it has two crucibles of capacity 500 kg each. The design parameters of the induction melting furnace are presented in Table 3.1.

Table 3.1: Induction melting furnace design parameters

Parameters/equipment ID	Furnace
Equipment	Induction furnace
Type	SCR
Make	Inductotherm
Voltage/Frequency, V/Hz	460/500
Rating, kW	450+450
Crucible capacity, kg	500 (two no's)
Operating Temperature (°C)	1510
Mode of operation (batch/continuous)	Batch
Batch duration (minute)	40

3.2 Observation and analysis

The study was conducted on 500 kg crucible and entire days (25 sample heats (batches)) were studied to arrive at specific energy consumption of induction furnace. The details of observation are given in table 3.2. The power curves for the batches studied are shown in figure 3.2. Detailed furnace logging is given in annexure 3.2.

Table 3.2: Observation and measurement of induction furnace

Particular	Unit	Total	Average
Raw material charge	kg	12,500	500
Units consumed	kWh	8,543	342
Cycle time (melting + pouring)	min	978	39
Specific Energy Consumption	kWh/MT	683	683
Tapping temperature	C	1,510	1,510

- There was no lid cover on furnace crucible, thus leading to radiation and convection losses, around 5% of input energy
- Currently the furnace is operating in one shift (14-16 hours depending on demand) and is left for natural cooling at end of day, leading to bigger cracks in refractory lining and reducing lining life
- It was recommended to use a fan for forced cooling of crucible, this not only increase lining life but also reduce the hours of coil cooling requirement after furnace is switched off
- The harmonics level is too high due to furnace operation. Current distortion is near 24.5% and voltage distortion is near 8.1%
- For around ten heats in a day, the tapping temperature was above 1600 deg. It was recommended to keep temperature in check and avoid super-heating.

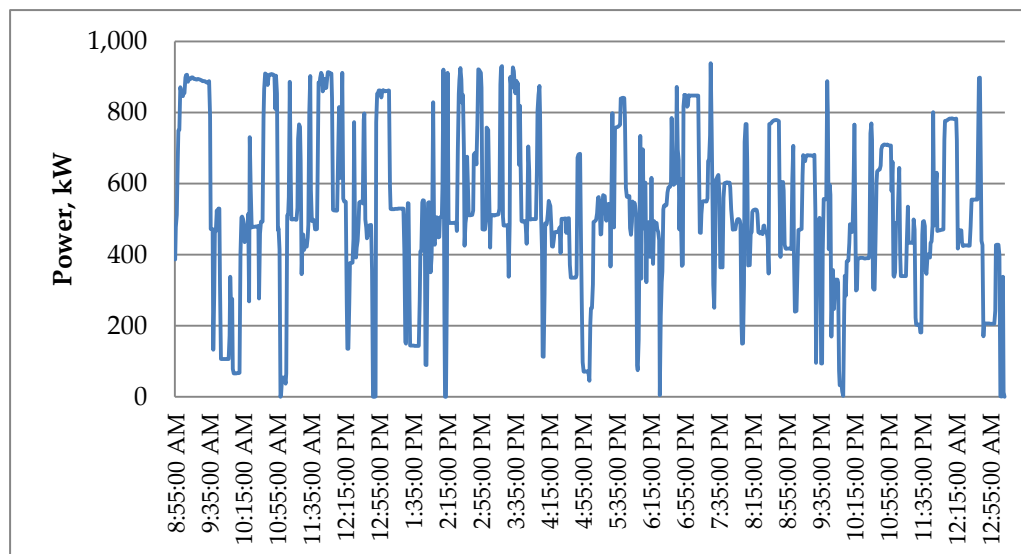


Figure 3.2: Power curve of induction furnace on 22nd July 2015

3.3 Energy conservation measures

Based on the above analysis, identified energy efficiency measures in furnace are discussed in the following paragraphs.

3.3.1 Installation of lid mechanism for induction furnace

The operational parameters of the induction furnace including the electricity consumption and material charged were measured during the detailed energy audit and analysis of the past one year data. The specific energy consumption of the induction furnace was calculated to be 683 kWh per metric tonne of melting. It was found that the opening of induction furnace is circular with 408 mm diameter. The opening heat losses for one batch (heat) were calculated to be 17 kWh per heat. The heat loss is due to radiation and convection loss.

It is recommended to install a hydraulically operated lid mechanism for both crucible of induction furnace to avoid opening losses. It was estimated that around five units per heat can be saved.

Table 3.3.1: Installation of Lid mechanism for induction furnace

Particulars	Unit	Value
Heats per day	heats	25.0
Saving potential per heat	kWh/heat	4.56
Operational days per year	days	300
Annual saving potential	kWh/year	34,212
	toe/year	2.9
Energy cost per unit	Rs/kWh	6.31
Monetary saving	Rs lakh/year	2.16
Investment	Rs lakh	4.00
Simple payback period	years	1.9
CO ₂ emission avoided	tCO ₂ /year	33.5

3.0 Furnace

The estimated annual energy savings by using lid mechanism is 34,212 kWh equivalent to a monetary savings of Rs 2.16 lakh. The investment requirement is Rs 4.0 lakh with a simple payback period of 1.9 year. The annual reduction in CO₂ emission is estimated to be 33.5 tCO₂.

3.3.2 Staggering the starting time of two furnaces to avoid holding of one furnace for first pour of day

The foundry starts cold furnace at same time every day. Since both furnaces are identical capacity and power rating and operating in partial dual mode, thus both come for melting at similar time. One crucible is kept on hold for 15-20 minutes and it leads to un-necessary heat loss due to holding.

It is recommended to stagger the starting time of two furnaces (by around 15-20 minutes) to avoid holding of one furnace for first pour of day.

Table 3.3.1: Cost benefit

Particulars	Unit	Value
First heat holding time	min	15.0
Energy wastage during holding	kWh	62.5
Operational days per year	days	300
Annual saving potential	kWh/year	18,750
	toe/year	1.6
Energy cost per unit	Rs/kWh	6.31
Monetary saving	Rs lakh/year	1.18
Investment	Rs lakh	-
Simple payback period	years	-
CO ₂ emission avoided	tCO ₂ /year	18.4

The estimated annual energy savings by using lid mechanism is 18,750 kWh equivalent to a monetary savings of Rs 1.18 lakh. There is no investment required for this measure. The annual reduction in CO₂ emission is estimated to be 18.4 tCO₂.

4.0 Compressed air system

4.1 Facility description

The plant has installed one screw type (air cooled) air compressor for meeting the compressed air requirement of instrumentation and service in the plant. The design parameters of the air compressor are presented in Table 4.1.

Table 4.1: Air compressor design parameters

Particulars	Unit	AC01
Make		Atlas Copco
Type		Screw
Model		GA 37+ A WFF
Rated Capacity	m ³ /min	7.09
	cfm	250
Pressure	bar	7.5
Power rating	kW	37.0

4.2 Observation and analysis

The air compressors AC01 runs continuously in load and unload mode. The compressors will be unloaded while reaching to the set pressure. When compressors in unload mode, the motor continues to operate however at much reduced load and no compressed air is delivered to the system. The compressed air pressure required at the end use point was observed to be about 6.1 kg/cm².

4.2.1 Performance assessment of air compressor

The details of FAD test conducted on the air compressor are given in table 4.2.1.

Table 4.2.1: Performance assessment of air compressor

Particulars	Unit	AC01
Operating Pressure	bar	7.0
Initial Pressure	bar	0.1
Capacity of Receiver	m ³	1.0
Additional holdup of volume	m ³	-
Pump up time	seconds	60
Inlet air temperature	°C	34.0
FAD	m ³ /min	6.7
	cfm	237
Isothermal power	kW	21.7
Motor power	kW	44.5
Motor efficiency	%	90.0%
Shaft power	kW	40.05
Isothermal efficiency	%	54.1%
Volumetric efficiency	%	94.9%
Specific power consumption	kW/cfm	0.187

- The FAD of air compressors was estimated to be 237 cfm and the specific power consumption of air compressor was 0.187 kW per cfm
- The volumetric and isothermal efficiency of air compressor was estimated to be 94.9% and 54.1% respectively

4.2.2 Leakage test

The leakage test of the compressed air distribution system was conducted on AC01 during the field study. Under this test, all supply valves at utilization end were closed manually and compressor was operated for a period of 30 minutes. The loading and unloading time of the operating compressor during the leakage test is noted. The loading period is the generation of the compressed air, which is due to leakages in the distribution system. The estimated leakage in the compressed air distribution system is shown in table 4.2.2. Figure 4.2.2 shows load-unload cycle during leakage test. In an ideal system once pressure attained, the compressor should never come ON-load again during leakage test.

Table 4.2.2: Leakage assessment

Leakage Test	Unit	Value
Actual FAD	m ³ /min	6.73
	cfm	237
ON time	sec	11
OFF time	sec	30
Leakage in plant	%	27%
Leakage in plant	cfm	63.72

Leaks are a significant source of wasted energy in a compressed air system of plant, often wasting a portion of the compressor's output. Compressed air leaks can also contribute to problems with system operations, including:

- Fluctuating system pressure, which can cause air tool and other air-operated equipment to function less efficiently, which possibly affects the production.
- Excess compressor capacity, resulting in higher than necessary costs
- Decreased service life and increased maintenance of supply equipment (including the compressor package) due to unnecessary cycling and increased run time.

By installing suitable application specific nozzles, taking the necessary maintenance practices and periodic inspection of distribution network, it would be possible to reduce the air leakages significantly. Although leaks can occur in any part of the system, the most common problem areas are: couplings, hoses, tubes, fittings, pipe joints, quick disconnects, FRLs (filter, regulator, and lubricator), condensate traps, valves, thread sealants, and point of use devices. Leakage rates are a function of the supply pressure in an uncontrolled system and increase with higher system pressures.

The total leakage quantity in the system in plant is estimated to 27% of the supplied air (from one compressor) which is equivalent to 64 cfm, which is significant. The permissible line losses in the industrial scenario are less than 5%.

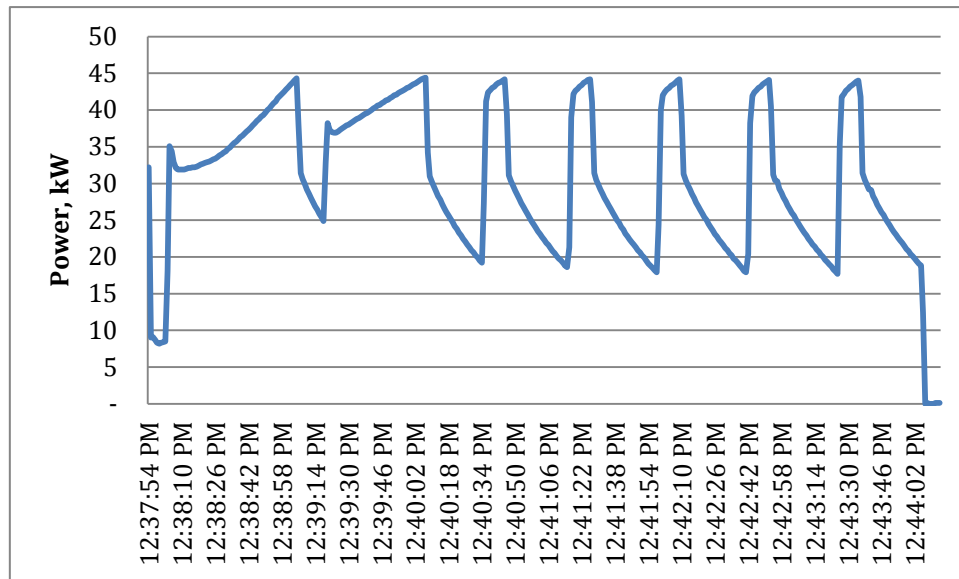


Figure 4.2.2: Power curve during leakage test

4.3 Energy conservation measures

Based on the above analysis, identified energy efficiency measures in air compressor are discussed in the following paragraphs.

4.3.1 Arresting leakages, creating ring main and reducing pressure in compressed air system

From preliminary assessment it was found that leakage in line is very high in both the pipe lines. Leakage test was performed during break time to estimate the amount of leakage. The on time and off time were measured for two air compressors. The leakage in existing compressed air piping system was measured and found to be 27%, which is high.

It is recommended to reduce leakages in the compressed air piping system by periodically checking for air leaks and arresting them, and bring it down to about a nominal level of 5%.

It is recommended to have common ring main system for compressed air network and set screw compressor at 6.4 to 7.0 bar pressure and set reciprocating compressor at 6.2 to 6.7 bar. After reduction of leakage single screw compressor should be able to meet the demand. Also, it is recommended to join pipes with proper sized pipes to form ring main system, thus to minimize pressure drop in system.

Table 4.3.1: Cost benefit analysis

Particulars	Unit	Value
Leakage arresting		
Leakage in plant	%	27%
Energy loss	kW/hour	9.6
Acceptable losses	%	5%
Energy Saving	kW	7.8

Particulars	Unit	Value
Operating hours	hour	4,800
Recommended pressure		
Load pressure	bar	6.2
Unload pressure	bar	6.7
Energy Saving	%	3%
Annual energy saving	kWh/ year	43,236
	toe/year	3.72
Monetary saving	Rs lakh/year	2.7
Investment	Rs lakh	2.0
Simple payback period	years	0.7
CO ₂ emission avoided	tCO ₂ /year	42.4

The estimated annual energy savings by arresting air leakage and reducing pressure setting is 43,236 kWh equivalent to a monetary savings of Rs 2.7 lakh. The investment requirement is Rs 2.0 lakh with a simple payback period of 0.7 year. The annual reduction in CO₂ emission is estimated to be 42.4 tCO₂.

5.0 Pumping system and cooling towers

5.1 Facility description

Pumping systems and cooling towers were installed in the plant, mainly for supplying cooling water to induction furnace. The furnace panel has one (demineralised water) DM water pump for its cooling. Soft water is circulated for coil cooling using another pump. The soft water and DM water is cooling using heat exchanger, where raw water flows in secondary circuit. The unit also has pump installed for sand cooler. The rated parameters of the pumps have been given in table 5.1a.

Table 5.1a: Rated parameters of the pumps taken up for study

Design Parameters	Unit	Coil cooling pump	Raw water pump coil cooling	Raw water pump panel cooling	Sand cooler pump
Make		Kirloskar	Kirloskar	Kirloskar	NA
Type		Mono-Block	Mono-Block	Mono-Block	Mono-Block
Flow rate	m ³ /hour	18.0	24.0	33.0	32.4
Head	m	46.0	26.0	22.0	18.0
Motor Power	kW	5.5	3.7	3.7	2.2
Overall Efficiency	%	40%	49%	40%	49%

The plant is equipped with one cooling tower (CT) to cater to the cooling water requirements of the induction furnace. The rated parameters of the cooling towers have been given in table 5.1b.

Table 5.1b: Rated parameters of the cooling tower taken up for study

Parameters	CT
Type	Forced draft
Make/year	NA
Purpose	Coil water cooling in induction melting furnace
Capacity (lpm)	700 (two no's)
Pump power (kW)	3.7
Fan power (kW)	2.2
Operating hours per day	16
Other Location	Near main gate

5.2 Observation and analysis

5.2.1 Pumps

The operating parameters, such as flow and head, were measured for all operating water pumps. Suction & discharge head of the pumps was measured by using standard pressure gauge from the plant. The flow rate of water delivered by the pumps was measured by using non-intrusive type flow meter. Simultaneously, operating electrical parameters of pump mainly voltage, current, power factor and kW were measured by using portable power analyser. The operating parameters and efficiency estimation is given in table 5.2.1.

Table 5.2.1: Estimation of efficiency of pump associated with induction furnace

Actual Parameters	Unit	Coil cooling pump	Raw water pump coil cooling	Raw water pump panel cooling	Sand cooler pump
Flow rate	m ³ /hour	11.2	17.3	16.9	28.1
Suction Pressure	kg/cm ²				
Discharge Pressure	kg/cm ²	4.0	2.5	2.0	1.1
Differential Head	m	40	25	20	11
Power	kW	6.30	2.80	4.55	2.10
Overall efficiency	%	19.4%	42.1%	20.2%	40.1%

5.2.2 Cooling towers in the plant

Operating parameters of cooling towers such as cooling water temperature at inlet and outlet, water flow rates, air flow rates and power consumption of fan motor were monitored by using digital thermometer, non-intrusive type flow meter, anemometer and power analyser respectively. The operating parameters and the performance of the cooling tower are shown in table 5.2.2.

Table 5.2.2: Estimation of operating parameters and performance of cooling towers

Measured Parameters	Unit	Value
Water flow rate	m ³ /hour	34.2
Ambient temperature	°C	26.5
RH	%	59.5
T inlet	°C	35.1
T outlet	°C	30.2
Calculations	Unit	
DBT	°C	26.5
WBT	°C	20.7
Approach	°C	9.5
Range	°C	4.9
Heat removed to atmosphere	kCal/hour	167,580
	TR	55.42
Effectiveness	%	34%

5.3 Energy conservation measures

There is a scope of considerable energy savings in the pumps and cooling tower area, as this is clear from the performance assessment that some of the pumps installed are of poor efficiency.

5.3.1 Replacement of existing coil cooling pump with energy efficient pump

The power consumption of furnace coil cooling pump was measured to be 6.3 kW. The water flow rate was measured to be 11.2 m³/hour which is lower than the design flow of 18.0 m³/hr. The overall efficiency of the pump is calculated to be 19.4% which is lower than design efficiency (40%).

The performance of an induction furnace is directly linked with the performance of its cooling water circuit. Therefore, it is recommended to replace the existing furnace coil cooling pump with energy efficient pump (e.g. Grundfos make).

Table 5.3.1: Replacement of existing coil cooling pump with energy efficient pumps

Recommended Pump Specification	Units	Coil cooling pump
Flow rate	m ³ /hour	18.0
Differential Head	m	45.0
Efficiency	%	54.3%
Power	kW	4.06
Energy saving	kW	2.24
Operating period	hour	7,200
Annual Energy saving	kWh/year	16,093
	toe/year	1.38
Cost saving		
Energy cost per unit	Rs / kWh	6.31
Annual Monetary Saving	Rs lakh / year	1.02
Investment	Rs lakh	0.55
Simple Payback Period	years	0.5
CO ₂ emission avoided	tCO ₂ /year	15.8

The estimated annual energy savings in coil cooling pump is 16,093 kWh equivalent to a monetary saving of Rs 1.02 lakh. The investment requirement is Rs 0.55 lakh with a simple payback period of 0.5 years. The annual reduction in CO₂ emission is estimated to be 15.8 tCO₂.

5.3.2 Replacement of existing raw water pump for panel cooling PHE with energy efficient pump

The power consumption of raw water pump for panel cooling was measured to be 4.55 kW. The water flow rate was measured to be 16.9 m³/hr, which is lower than the design flow of 33 m³/hr. The overall efficiency of the pump is calculated to be 20.2% which is lower than design efficiency (40%).

The performance of an induction furnace is directly linked with the performance of its cooling water circuit. Therefore, it is recommended to replace the existing raw water pump for panel cooling PHE with an energy efficient Grundfos pump.

Table 5.3.2: Replacement of existing raw water pump with energy efficient pumps

Recommended Pump Specification	Units	Raw water pump panel cooling
Flow rate	m ³ /hour	33.0
Differential Head	m	22.0
Efficiency	%	60.6%
Power	kW	3.26
Energy saving	kW	1.29
Operating period	hour	4,800
Annual Energy saving	kWh/year	6,170
	toe/year	0.53
Cost saving		
Energy cost per unit	Rs / kWh	6.31
Annual Monetary Saving	Rs lakh / year	0.39
Investment	Rs lakh	0.55
Simple Payback Period	years	1.4
CO ₂ emission avoided	tCO ₂ /year	6.0

The estimated annual energy savings in raw water pump is 6,170 kWh equivalent to a monetary saving of Rs 0.39 lakh. The investment requirement is Rs 0.55 lakh with a simple payback period of 1.4 years. The annual reduction in CO₂ emission is estimated to be 6.0 tCO₂.

6.0 Motors

6.1 Facility description

The energy audit of electrical motors associated with utility and process equipment was carried out to assess the performance and identify potential for energy savings. The study included motors installed in the utility (water pumping, utilities, shot blasting, fettling) process machinery and other associated systems. The study focussed broadly on the following aspects with a view to assess the performance of motors:

- Loading of motors
- Nature of load (fixed or variable)

The details of measurements and observation on each of these three aspects are detailed in the following sections.

6.2 Observations and analysis

Different sections of the plant include pumping and sand handling. The operating parameters of motors were measured using portable instruments to observe load profile and power consumption. The range of motor loadings in different sections was evaluated. To evaluate the operating performance of motors and study the loading pattern, load tests were carried out for about 15 electrical motors in the plant covering utility and process areas.

6.2.1 On-load motor test

The operational loading of the electrical motors is calculated using the measured electrical parameters from the unit. The details of motors in sand handling and finishing are given in 6.2.1.

Table 6.2.1: Motor power parameter and loading

Motor Description	Motor Rating		Motor Operating Parameters									% Loading
	Rated power (kW)	Efficiency (%)	V	V_{thd} (%)	A	A_{thd} (%)	kW	kVA	PF	kVAr	Hz	
Shot blast turbine upper	11.1	89.0%	424	2.1	5.5	7.1	3.4	4.0	0.84	2.2	50.0	27%
Shot blast turbine lower	11.1	89.0%	424	2.6	5.9	7.7	3.5	4.3	0.80	2.6	50.0	28%
Shot blast dust collector	7.5	89.0%	425	2.3	2.9	9.3	1.7	2.1	0.79	1.3	50.0	20%
Blower 40 hp	30.0	90.0%	419	2.4	28.2	11.1	17.6	20.5	0.86	10.4	50.0	53%
Blower 100 hp	75.0	93.6%	427	2.3	72.0	9.3	44.7	53.3	0.84	28.9	50.0	56%

The performances of the all-operating motors were assessed to understand the operational loading. The loading of the major motors was found under the normal performance range.

6.3 Energy conservation measures

There is a scope of considerable energy savings in the motors, as this is clear from the performance assessment that one of the motors installed are of poor efficiency.

6.3.1 Replacement of flat V-belt with cogged V-belt and strengthening the base of 100 hp blower motor

The power consumption of 100 hp blower was measured to be 44.7 kW. The blower is coupled with motor using set of flat V-belts. It was recommended to replace flat V-belt by cogged V-belt.

Cogged belts have slots that run perpendicular to the belt's length. The slots reduce the belt's bending resistance. Cogged belts can be used with the same pulleys as equivalently rated V-belts. They run cooler, last longer, and have an efficiency that is about 2-5% higher than that of standard flat V-belts.

Also, the base of motor was damaged, it was recommended to repair the base, to provide firm support and reduce vibrations.

Table 6.3.1: Replacement of flat V-belts with cogged V-belt

Particulars	Unit	Value
Blower 100 hp power	kW	44.7
Operating hours	hour/day	16.0
Operational days per year	days	300
Annual saving consumption	kWh/year	214,705
V-belt to Cogged V-belt		
Energy saving potential	%	3%
Annual energy saving	kWh/year	6,441
	toe/year	0.55
Monetary saving	Rs lakh/year	0.41
Investment	Rs lakh	0.20
Simple payback period	years	0.5
CO ₂ emission avoided	tCO ₂ /year	6.3

The estimated annual energy savings in cogged V-belt is 6,441 kWh equivalent to a monetary saving of Rs 0.41 lakh. The investment requirement is Rs 0.2 lakh with a simple payback period of 0.5 years. The annual reduction in CO₂ emission is estimated to be 6.3 tCO₂.

6.4 General observations and recommendations

- The under loaded condition of motors in the plant are mainly because of its operating pattern.
- Inspecting motors regularly for wear in bearings and housings (to reduce frictional losses) and for dirt/dust in motor ventilating ducts (to ensure proper heat dissipation).
- Checking load conditions to ensure that the motor is not over or under loaded. A change in motor load from the last test indicates a change in the driven load, the cause of which should be understood.

- Lubricating appropriately. Manufacturers generally give recommendations for how and when to lubricate their motors. Inadequate lubrication can cause problems, as noted above. Over lubrication can also create problems, e.g. excess oil or grease from the motor bearings can enter the motor and saturate the motor insulation, causing premature failure or creating a fire risk.
- Checking periodically for proper alignment of the motor and the driven equipment. Improper alignment can cause shafts and bearings to wear quickly, resulting in damage to both the motor and the driven equipment.
- Ensuring that supply wiring and terminal box are properly sized and installed. Inspect regularly the connections at the motor and starter to be sure that they are clean and tight.
- Ambient conditions can also have a detrimental effect on motor performance. For example, excessively high temperatures, high dust loading, corrosive atmosphere, and humidity can impair insulation properties; mechanical stresses due to load cycling can lead to misalignment. However, with adequate care, motor performance can be maintained.
- Rewinding can affect a number of factors that contribute to deteriorated motor efficiency.

7.0 Lighting system

7.1 Facility description

The total connected lighting load of the plant, as per the inventory collected during the detailed assessment study, was estimated to be 1.0 kW (including ballast losses). The different types of lamps operating in the plant are compact fluorescent lamp (CFL). Table 7.1 gives the type of lamps used in different areas of the plant.

Table 7.1: Details of the lighting system

S. No	Location in the plant	Type of lamps & ballast	No. of lamps	Rated wattage, watt (including ballast)	Connected load, kW	Average operating hours
1	Office and Plant	CFL	12	27	0.3	10
2	Plant	CFL	08	85	0.7	12

The overall energy consumption in lighting is about 1% of total energy consumption in foundry.

8.0 Summary of potential savings

8.1 Summary of recommendations

The proposed energy conservation measures (ECMs) for various facilities of Abhishek Alloys is categorized as no investment, short term investment and medium term investment based recommendations as per the following criteria:

- The energy savings measures, which are having immediate returns, are considered to be no investment recommendations.
- The energy saving measures, which are having a simple payback period of less than a year, are considered to be short term measures.
- The energy saving measures, which are having a simple payback period of 1 to 2 year, are considered to be medium term measures.
- The energy saving measures, which are having a simple payback period greater than 2 years, are considered to be long term measures.

The number of ECMs under the above categories as given table 8.1:

Table 8.1: Categorization of energy conservation measures

Sr. No.	Type of recommendation	No. of ECM	Energy cost saving potential (Rs lakh)	Investment required (Rs lakh)	Simple payback (years)
1	No investment based	1	1.18	-	-
2	Short term return based (< 1 year)	4	6.06	4.48	0.7
3	Medium term return based (1-2 year)	2	2.55	4.55	1.8
4	Long term return based (> 2 year)	0	-	-	-
	Total	7	9.79	9.03	0.9

8.2 Recommended energy conservation measures

The recommended measures considered for energy audit report after discussion with unit representative is given in table 8.2

Table 8.2: Recommended energy conservation measures for implementation

S. No	Energy conservation measures	Annual energy savings Electricity (kWh)	Investment Rs Lakh	Savings Rs Lakh/ year	Simple Payback year
1	Power factor improvement	6,937	1.73	1.91	0.9
2	Lid mechanism for induction furnace	34,212	4.00	2.16	1.9
3	Staggering the starting time of two furnace to avoid holding of one furnace for first pour of day	18,750	-	1.18	-
4	Arresting leakages, creating ring main and reducing pressure in compressed air system	43,236	2.00	2.73	0.7

S. No	Energy conservation measures	Annual energy savings	Investment	Savings	Simple Payback
		Electricity (kWh)	Rs Lakh	Rs Lakh/year	year
5	Replacement of raw water pump for panel cooling with energy efficient pump	6,170	0.55	0.39	1.4
6	Replacement of coil cooling pump with energy efficient pump	16,093	0.55	1.02	0.5
7	Replacement of flat V-belt with cogged V-belt and strengthening the base of 100 hp blower motor	6,441	0.20	0.41	0.5
Overall		131,838	9.0	9.8	0.9

Total seven energy conservation measures are identified. Implementing them would attract a one-time investment of Rs 9.0 lakh; it would lead to annual savings of Rs 9.8 lakh. This would result in reduction in energy consumption by 3.9%. The specific energy consumption of entire foundry would improve from 1,611 kWh per tonne to 1,549 kWh per tonne.

8.3 Lifetime energy and CO₂ savings

Implementation of the energy conservation measures in the unit may result in reduction in CO₂ emissions due to reduction in overall energy consumption. The estimated reduction in GHG emission by implementation of the recommended energy conservation measures is 129.2 tonne of CO₂ per year. The life time CO₂ emission reduction is estimated to be 1,938 tonne. The lifetime energy and CO₂ saving are given in table 8.3

Table 8.3: Lifetime CO₂ savings

S. No	Energy Conservation Measures	Life time energy saving (toe)	Life time CO ₂ reduction (tonne)
1	Power factor improvement	8.9	102.0
2	Lid mechanism for induction furnace	44.1	502.9
3	Staggering the starting time of two furnace to avoid holding of one furnace for first pour of day	24.2	275.6
4	Arresting leakages, creating ring main and reducing pressure in compressed air system	55.8	635.6
5	Replacement of raw water pump for panel cooling with energy efficient pump	8.0	90.7
6	Replacement of coil cooling pump with energy efficient pump	20.8	236.6
7	Replacement of flat V-belt with cogged V-belt and strengthening the base of 100 hp blower motor	8.3	94.7
		170.1	1,938.0

8.4 Renewable energy recommendation

The use of renewable energy technologies is not techno-economically feasible for melting, which is the most energy-intensive area in foundry application. Moreover, some of these technologies are not fully commercially mature and hence was not recommended for implementation.

¹The photograph in cover page was taken during energy audit

Annexures

Annexure: 3.2 Logging of induction furnace

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVA	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	8:55:00 AM	434.9	438.3	435.4	6.5	6.3	6.7	527	543	547	27.2	25.6	25.5	386.5	6.4	127.0	406.9	0.95	0.95	0.95	50.05
7/22/2015	8:56:00 AM	433.5	436.9	433.8	7.6	7.2	7.8	653	670	680	26.3	25.0	24.4	477.8	14.4	157.1	503.0	0.95	0.95	0.95	50.04
7/22/2015	8:57:00 AM	433.0	436.5	433.4	7.9	7.5	8.1	702	717	730	26.0	24.9	24.2	511.8	22.9	168.2	538.7	0.95	0.95	0.95	50.01
7/22/2015	8:58:00 AM	430.2	434.1	430.5	9.3	9.0	9.6	921	925	950	24.5	24.2	23.0	661.7	34.0	218.1	696.7	0.95	0.95	0.95	50.01
7/22/2015	8:59:00 AM	429.1	433.3	429.5	10.2	9.9	10.4	1,049	1,049	1,078	23.7	23.6	22.3	749.9	46.5	248.4	790.0	0.95	0.95	0.95	50.01
7/22/2015	9:00:00 AM	429.1	433.4	429.6	10.4	10.0	10.6	1,050	1,051	1,080	23.7	23.5	22.3	751.2	59.0	249.4	791.5	0.95	0.95	0.95	50.01
7/22/2015	9:01:00 AM	425.7	430.3	426.3	11.8	11.5	12.1	1,233	1,228	1,260	22.4	22.5	21.3	871.0	73.5	292.6	918.8	0.95	0.95	0.95	50.02
7/22/2015	9:02:00 AM	425.9	430.4	426.6	11.8	11.5	12.1	1,218	1,214	1,246	22.4	22.5	21.3	861.0	87.8	289.4	908.4	0.95	0.95	0.95	50.05
7/22/2015	9:03:00 AM	424.9	429.4	425.7	11.8	11.4	12.0	1,210	1,206	1,237	22.5	22.6	21.4	853.2	102.1	287.0	900.1	0.95	0.95	0.95	50.06
7/22/2015	9:04:00 AM	425.5	429.9	426.1	11.5	11.1	11.7	1,196	1,194	1,225	22.6	22.7	21.6	845.7	116.2	283.5	892.0	0.95	0.95	0.95	50.08
7/22/2015	9:05:00 AM	427.3	431.7	428.0	11.4	11.1	11.6	1,203	1,199	1,230	22.7	22.8	21.6	853.2	130.4	286.1	899.9	0.95	0.95	0.95	50.10
7/22/2015	9:06:00 AM	427.6	432.0	428.3	11.4	11.0	11.6	1,203	1,200	1,231	22.8	22.8	21.7	854.5	144.6	286.3	901.2	0.95	0.95	0.95	50.09
7/22/2015	9:07:00 AM	428.5	433.0	429.2	11.6	11.2	11.8	1,263	1,260	1,291	22.6	22.7	21.5	898.5	159.6	301.5	947.8	0.95	0.95	0.95	50.10
7/22/2015	9:08:00 AM	428.5	432.8	429.1	11.7	11.3	11.9	1,273	1,272	1,300	22.5	22.6	21.6	905.6	174.7	304.3	955.4	0.95	0.95	0.95	50.11
7/22/2015	9:09:00 AM	428.6	433.0	429.3	11.7	11.3	11.9	1,273	1,272	1,301	22.6	22.6	21.6	906.1	189.8	304.2	955.8	0.95	0.95	0.95	50.10
7/22/2015	9:10:00 AM	428.1	432.4	428.8	11.6	11.2	11.9	1,246	1,246	1,275	22.7	22.7	21.6	886.5	204.6	297.7	935.2	0.95	0.95	0.95	50.07
7/22/2015	9:11:00 AM	427.7	432.1	428.5	11.6	11.3	12.0	1,264	1,260	1,289	22.6	22.7	21.6	896.7	219.5	300.8	945.8	0.95	0.95	0.95	50.06
7/22/2015	9:12:00 AM	427.1	431.5	427.9	11.6	11.3	12.0	1,260	1,257	1,285	22.5	22.6	21.6	892.6	234.4	299.4	941.5	0.95	0.95	0.95	50.03
7/22/2015	9:13:00 AM	426.8	431.2	427.5	12.0	11.7	12.3	1,264	1,261	1,289	22.2	22.3	21.3	894.6	249.3	301.0	943.9	0.95	0.95	0.95	50.01
7/22/2015	9:14:00 AM	426.2	430.6	426.9	12.1	11.7	12.4	1,271	1,268	1,296	22.1	22.2	21.2	898.2	264.3	302.5	947.8	0.95	0.95	0.95	49.98
7/22/2015	9:15:00 AM	426.2	430.6	426.9	12.0	11.7	12.3	1,272	1,270	1,297	22.1	22.2	21.2	899.2	279.3	302.5	948.8	0.95	0.95	0.95	49.95
7/22/2015	9:16:00 AM	425.3	429.6	426.0	12.0	11.6	12.3	1,273	1,271	1,298	22.2	22.2	21.3	897.9	294.2	302.3	947.4	0.95	0.95	0.95	49.91
7/22/2015	9:17:00 AM	424.6	429.0	425.3	12.1	11.8	12.4	1,271	1,268	1,296	22.1	22.1	21.2	894.8	309.1	301.7	944.3	0.95	0.95	0.95	49.89
7/22/2015	9:18:00 AM	424.3	428.5	424.8	12.1	11.7	12.4	1,271	1,269	1,296	22.1	22.2	21.2	894.1	324.0	301.5	943.5	0.95	0.95	0.95	49.90
7/22/2015	9:19:00 AM	424.2	428.3	424.7	11.9	11.6	12.3	1,270	1,269	1,294	22.3	22.4	21.4	893.3	338.9	300.7	942.6	0.95	0.95	0.95	49.94
7/22/2015	9:20:00 AM	423.4	427.7	424.0	11.8	11.5	12.2	1,271	1,270	1,296	22.3	22.4	21.4	892.7	353.8	300.2	941.9	0.95	0.95	0.95	49.99

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/22/2015	9:21:00 AM	423.6	427.9	424.2	11.9	11.6	12.2	1,271	1,270	1,296	22.3	22.4	21.4	893.1	368.7	300.6	942.4	0.95	0.95	0.95	50.03
7/22/2015	9:22:00 AM	424.0	428.2	424.6	12.0	11.7	12.4	1,271	1,271	1,296	22.3	22.3	21.3	894.1	383.6	301.4	943.5	0.95	0.95	0.95	50.02
7/22/2015	9:23:00 AM	423.9	428.1	424.4	12.2	11.8	12.5	1,271	1,270	1,296	22.0	22.1	21.2	893.5	398.5	301.0	942.8	0.95	0.95	0.95	50.02
7/22/2015	9:24:00 AM	423.7	428.0	424.2	12.1	11.8	12.5	1,270	1,271	1,296	22.1	22.1	21.2	893.1	413.4	300.7	942.4	0.95	0.95	0.95	49.99
7/22/2015	9:25:00 AM	423.5	427.7	424.0	12.2	11.9	12.5	1,269	1,270	1,295	22.0	22.0	21.1	892.0	428.2	300.4	941.3	0.95	0.95	0.95	50.00
7/22/2015	9:26:00 AM	422.6	426.9	423.2	12.3	11.9	12.6	1,270	1,270	1,295	22.0	22.0	21.0	890.6	443.1	300.3	939.8	0.95	0.95	0.95	49.99
7/22/2015	9:27:00 AM	421.9	426.1	422.5	12.3	11.9	12.6	1,270	1,269	1,294	22.0	22.0	21.1	888.5	457.9	299.9	937.7	0.95	0.95	0.95	49.97
7/22/2015	9:28:00 AM	421.9	426.0	422.4	12.2	11.9	12.6	1,269	1,270	1,294	22.0	22.0	21.1	888.3	472.7	300.0	937.6	0.95	0.95	0.95	49.99
7/22/2015	9:29:00 AM	422.0	426.2	422.5	12.4	12.2	12.8	1,269	1,269	1,294	21.9	21.8	20.9	888.0	487.5	299.9	937.3	0.95	0.95	0.95	50.03
7/22/2015	9:30:00 AM	421.7	426.0	422.2	12.3	12.0	12.7	1,269	1,270	1,295	21.9	21.9	21.0	888.0	502.3	299.5	937.2	0.95	0.95	0.95	50.03
7/22/2015	9:31:00 AM	420.9	425.1	421.4	12.1	11.9	12.6	1,269	1,270	1,295	22.1	22.0	21.1	886.6	517.1	298.8	935.6	0.95	0.95	0.95	50.00
7/22/2015	9:32:00 AM	419.9	424.2	420.3	12.0	11.8	12.5	1,268	1,270	1,295	22.2	22.1	21.1	884.5	531.8	297.7	933.3	0.95	0.95	0.95	49.95
7/22/2015	9:33:00 AM	419.5	423.9	420.0	12.1	11.9	12.5	1,268	1,269	1,295	22.1	22.0	21.0	883.4	546.5	297.4	932.1	0.95	0.95	0.95	49.95
7/22/2015	9:34:00 AM	420.0	424.4	420.5	12.1	11.9	12.5	1,268	1,269	1,295	22.1	22.0	21.0	884.4	561.3	297.7	933.2	0.95	0.95	0.95	49.98
7/22/2015	9:35:00 AM	421.6	426.1	422.1	11.9	11.6	12.3	1,269	1,270	1,296	22.4	22.3	21.3	888.5	576.1	298.7	937.4	0.95	0.95	0.95	49.98
7/22/2015	9:36:00 AM	423.8	428.0	424.3	10.7	10.5	11.1	1,122	1,127	1,149	23.4	23.0	22.1	790.2	589.3	265.2	833.5	0.95	0.95	0.95	49.98
7/22/2015	9:37:00 AM	428.9	432.4	429.2	7.6	7.4	8.0	651	668	681	26.1	24.9	24.0	472.1	597.1	155.3	497.0	0.95	0.95	0.95	49.96
7/22/2015	9:38:00 AM	445.3	448.8	445.6	7.1	6.9	7.5	627	645	656	26.5	25.2	24.5	472.1	605.0	155.0	496.9	0.95	0.95	0.95	49.96
7/22/2015	9:39:00 AM	449.5	453.0	449.9	7.1	6.9	7.4	621	638	649	26.6	25.3	24.6	471.9	612.9	155.0	496.8	0.95	0.95	0.95	49.97
7/22/2015	9:40:00 AM	453.7	456.9	454.5	3.7	3.8	4.1	171	183	179	31.8	27.8	31.5	131.9	615.1	47.0	140.1	0.94	0.95	0.93	49.98
7/22/2015	9:41:00 AM	450.2	453.5	450.7	5.6	5.6	6.0	381	395	398	29.4	26.5	28.2	288.8	619.9	97.7	304.9	0.94	0.95	0.94	49.96
7/22/2015	9:42:00 AM	446.8	450.3	447.2	7.6	7.4	8.0	617	634	644	26.3	25.0	24.3	465.4	627.6	154.3	490.3	0.95	0.95	0.95	49.99
7/22/2015	9:43:00 AM	446.8	450.2	447.2	7.7	7.5	8.1	617	634	644	26.2	25.0	24.3	465.5	635.4	154.5	490.5	0.95	0.95	0.95	49.99
7/22/2015	9:44:00 AM	445.6	449.3	446.1	8.4	8.2	8.7	700	715	728	25.7	24.6	23.9	524.1	644.1	175.3	552.7	0.95	0.95	0.95	49.98
7/22/2015	9:45:00 AM	447.3	450.9	447.7	7.9	7.7	8.3	636	653	663	26.1	24.9	24.1	479.9	652.1	159.6	505.8	0.95	0.95	0.95	49.99
7/22/2015	9:46:00 AM	446.6	450.4	447.2	8.5	8.3	8.9	706	720	732	25.4	24.5	23.7	529.7	660.9	176.2	558.3	0.95	0.95	0.95	50.01
7/22/2015	9:47:00 AM	446.4	450.1	446.9	8.6	8.4	8.9	706	721	732	25.4	24.4	23.7	529.9	669.8	176.4	558.5	0.95	0.95	0.95	50.00
7/22/2015	9:48:00 AM	448.8	452.2	449.4	6.6	6.6	7.0	420	432	436	28.4	26.1	27.4	315.6	675.0	107.4	333.4	0.94	0.95	0.94	50.01
7/22/2015	9:49:00 AM	452.2	455.5	452.9	4.3	4.4	4.7	139	149	145	32.1	28.2	31.9	106.4	676.8	39.0	113.4	0.94	0.95	0.93	49.99
7/22/2015	9:50:00 AM	452.4	455.6	453.1	4.1	4.2	4.5	138	149	144	32.2	28.2	32.1	106.1	678.6	38.8	113.0	0.94	0.95	0.93	49.99

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	9:51:00 AM	452.0	455.2	452.7	4.0	4.1	4.4	138	149	144	32.3	28.4	32.1	105.9	680.3	38.8	112.8	0.94	0.95	0.93	50.02
7/22/2015	9:52:00 AM	452.2	455.5	453.0	3.7	3.7	4.0	138	148	144	32.4	28.5	32.1	106.0	682.1	38.6	112.8	0.94	0.95	0.93	50.04
7/22/2015	9:53:00 AM	452.1	455.4	452.8	3.4	3.4	3.7	138	148	144	32.5	28.4	32.1	106.0	683.9	38.5	112.8	0.94	0.95	0.93	50.05
7/22/2015	9:54:00 AM	451.1	454.4	451.8	3.2	3.2	3.6	138	149	145	32.5	28.4	32.1	106.0	685.6	38.3	112.8	0.94	0.95	0.93	50.04
7/22/2015	9:55:00 AM	452.0	455.3	452.5	3.2	3.2	3.5	138	149	144	32.7	28.6	32.5	106.0	687.4	38.5	112.8	0.94	0.95	0.93	50.05
7/22/2015	9:56:00 AM	452.1	455.4	452.6	3.1	3.1	3.5	138	149	144	33.0	28.9	32.8	106.0	689.2	38.8	112.9	0.94	0.95	0.93	50.04
7/22/2015	9:57:00 AM	451.6	454.8	452.2	3.3	3.3	3.6	138	149	144	33.0	28.7	32.6	105.9	690.9	38.8	112.8	0.94	0.95	0.93	50.02
7/22/2015	9:58:00 AM	451.6	454.8	452.1	3.4	3.4	3.7	138	149	144	32.7	28.8	32.5	105.9	692.7	38.8	112.8	0.94	0.95	0.93	49.99
7/22/2015	9:59:00 AM	450.5	453.8	451.0	4.6	4.5	4.9	227	238	235	30.9	27.8	30.2	172.2	695.6	60.0	182.5	0.94	0.95	0.93	49.95
7/22/2015	10:00:00 AM	447.4	450.8	447.8	6.8	6.6	7.1	448	462	464	27.4	25.8	25.8	337.5	701.2	112.9	355.9	0.95	0.95	0.95	49.95
7/22/2015	10:01:00 AM	449.0	452.2	449.4	5.3	5.2	5.6	320	332	332	29.5	27.1	28.5	241.3	705.2	82.1	254.9	0.94	0.95	0.94	49.94
7/22/2015	10:02:00 AM	448.3	451.6	448.8	5.3	5.2	5.6	367	379	381	30.0	27.3	29.1	275.6	709.8	93.7	291.2	0.94	0.95	0.94	49.95
7/22/2015	10:03:00 AM	451.4	454.6	452.0	3.6	3.6	3.9	102	112	108	34.8	29.9	35.1	78.4	711.1	30.5	84.2	0.93	0.95	0.92	49.98
7/22/2015	10:04:00 AM	452.2	455.5	452.9	3.6	3.6	3.9	86	96	91	36.7	30.9	37.6	65.9	712.2	26.9	71.3	0.93	0.94	0.91	50.02
7/22/2015	10:05:00 AM	452.7	456.0	453.4	3.6	3.7	4.0	85	95	91	36.7	30.9	37.5	65.8	713.3	26.9	71.2	0.93	0.94	0.91	50.06
7/22/2015	10:06:00 AM	452.6	455.8	453.2	3.7	3.8	4.1	85	95	90	36.2	30.4	37.2	65.8	714.4	26.6	71.1	0.93	0.94	0.91	50.10
7/22/2015	10:07:00 AM	452.3	455.5	452.9	4.2	4.2	4.5	86	95	91	36.2	30.6	37.2	65.9	715.5	26.8	71.2	0.93	0.94	0.91	50.14
7/22/2015	10:08:00 AM	452.3	455.5	452.9	4.0	4.1	4.4	86	96	91	36.2	30.6	37.4	66.1	716.6	26.8	71.4	0.93	0.94	0.91	50.13
7/22/2015	10:09:00 AM	454.5	457.8	455.1	3.8	3.8	4.1	86	96	91	37.1	31.2	37.9	66.3	717.7	27.3	71.8	0.92	0.94	0.91	50.13
7/22/2015	10:10:00 AM	453.6	456.8	454.3	3.5	3.5	3.9	86	96	92	36.8	31.3	37.6	66.6	718.8	27.2	72.1	0.92	0.94	0.91	50.12
7/22/2015	10:11:00 AM	452.5	455.8	453.2	3.7	3.7	4.1	87	97	93	36.4	30.7	36.8	67.5	720.0	27.4	72.9	0.93	0.94	0.91	50.09
7/22/2015	10:12:00 AM	448.2	451.7	448.6	7.2	7.1	7.7	534	551	559	27.8	25.7	26.2	403.5	726.7	135.1	425.6	0.94	0.95	0.94	50.05
7/22/2015	10:13:00 AM	445.7	449.2	446.0	8.4	8.1	8.8	671	687	701	25.6	24.6	23.6	504.3	735.1	167.3	531.3	0.95	0.95	0.95	50.00
7/22/2015	10:14:00 AM	443.7	447.2	444.0	8.5	8.3	8.9	678	694	708	25.5	24.5	23.5	507.2	743.5	168.3	534.4	0.95	0.95	0.95	49.95
7/22/2015	10:15:00 AM	443.3	446.8	443.6	8.5	8.3	8.8	668	686	697	25.6	24.4	23.7	499.8	751.9	166.0	526.7	0.95	0.95	0.95	49.90
7/22/2015	10:16:00 AM	445.0	448.5	445.3	8.3	8.1	8.6	641	659	669	25.8	24.5	24.0	481.7	759.9	160.0	507.5	0.95	0.95	0.95	49.91
7/22/2015	10:17:00 AM	445.4	449.0	445.8	8.2	8.0	8.6	579	597	603	25.9	24.5	24.2	435.2	767.1	145.5	458.9	0.95	0.95	0.95	49.93
7/22/2015	10:18:00 AM	443.0	446.7	443.4	8.6	8.4	9.0	611	629	637	25.5	24.3	23.8	456.6	774.8	153.0	481.6	0.95	0.95	0.95	49.96
7/22/2015	10:19:00 AM	443.1	446.7	443.4	8.7	8.5	9.1	626	644	653	25.6	24.3	23.6	467.7	782.6	156.9	493.4	0.94	0.95	0.95	50.00
7/22/2015	10:20:00 AM	441.9	445.7	442.3	8.7	8.5	9.1	620	637	647	25.6	24.4	23.7	462.1	790.3	155.1	487.5	0.94	0.95	0.95	50.00

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			% ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	10:21:00 AM	441.0	444.7	441.3	9.2	9.0	9.6	693	709	722	25.0	24.0	23.2	514.4	798.8	172.3	542.5	0.95	0.95	0.95	50.04
7/22/2015	10:22:00 AM	444.7	448.4	445.3	6.7	6.7	7.0	364	373	381	24.0	34.5	42.6	268.7	803.3	92.9	285.0	0.60	0.65	0.63	50.05
7/22/2015	10:23:00 AM	437.1	441.5	437.7	11.0	10.8	11.4	1,009	1,011	1,034	23.6	23.1	22.3	730.4	815.5	248.1	771.4	0.94	0.95	0.95	50.03
7/22/2015	10:24:00 AM	439.1	443.1	439.7	9.6	9.3	9.9	794	806	824	24.8	23.9	23.0	583.6	825.2	196.2	615.7	0.94	0.95	0.95	49.99
7/22/2015	10:25:00 AM	440.5	444.3	441.0	8.5	8.3	8.9	641	658	671	25.8	24.6	23.6	476.9	833.2	159.1	502.8	0.94	0.95	0.95	49.97
7/22/2015	10:26:00 AM	440.6	444.4	441.2	8.6	8.3	8.9	642	660	673	25.8	24.5	23.7	478.3	841.1	159.6	504.3	0.94	0.95	0.95	49.97
7/22/2015	10:27:00 AM	442.2	445.9	442.8	8.5	8.3	8.9	640	659	669	25.8	24.6	23.8	478.3	849.1	159.6	504.2	0.95	0.95	0.95	49.98
7/22/2015	10:28:00 AM	444.1	447.8	444.6	8.3	8.1	8.7	637	656	666	25.9	24.7	24.0	478.2	857.1	159.3	504.1	0.95	0.95	0.95	49.99
7/22/2015	10:29:00 AM	443.8	447.5	444.3	8.4	8.2	8.8	638	656	666	25.8	24.5	23.9	478.2	865.0	159.5	504.1	0.95	0.95	0.95	50.02
7/22/2015	10:30:00 AM	443.2	446.9	443.7	8.2	8.0	8.6	641	657	668	25.8	24.6	24.0	478.8	873.0	159.5	504.7	0.95	0.95	0.95	50.06
7/22/2015	10:31:00 AM	442.8	446.5	443.4	8.3	8.0	8.7	642	658	669	25.7	24.7	23.9	479.1	881.0	159.8	505.0	0.95	0.95	0.95	50.09
7/22/2015	10:32:00 AM	442.5	446.2	443.2	8.4	8.2	8.8	643	658	670	25.7	24.6	23.8	479.4	889.0	160.1	505.4	0.95	0.95	0.95	50.11
7/22/2015	10:33:00 AM	443.0	446.7	443.6	8.4	8.2	8.7	645	659	671	25.6	24.6	23.8	481.0	897.0	160.4	507.1	0.95	0.95	0.95	50.09
7/22/2015	10:34:00 AM	446.3	449.7	447.0	6.3	6.2	6.7	367	381	382	27.9	26.0	26.4	276.7	901.6	93.8	292.2	0.94	0.95	0.94	50.10
7/22/2015	10:35:00 AM	442.9	446.5	443.5	8.6	8.4	9.0	617	631	643	25.6	24.5	23.7	459.7	909.3	154.1	484.9	0.94	0.95	0.95	50.10
7/22/2015	10:36:00 AM	442.5	446.3	443.2	8.8	8.6	9.2	661	675	690	25.3	24.4	23.3	492.7	917.5	164.6	519.5	0.94	0.95	0.95	50.10
7/22/2015	10:37:00 AM	442.2	445.9	442.8	8.8	8.6	9.2	662	676	691	25.2	24.3	23.3	493.0	925.7	164.5	519.7	0.94	0.95	0.95	50.08
7/22/2015	10:38:00 AM	442.8	446.5	443.5	8.8	8.5	9.1	661	674	688	25.2	24.3	23.4	492.4	933.9	164.4	519.1	0.95	0.95	0.95	50.06
7/22/2015	10:39:00 AM	437.0	441.5	437.8	11.6	11.3	11.9	1,082	1,079	1,107	22.6	22.6	21.4	784.6	947.0	264.2	827.9	0.94	0.95	0.95	50.05
7/22/2015	10:40:00 AM	433.4	438.1	434.3	12.4	12.1	12.7	1,205	1,200	1,230	22.0	22.0	20.9	865.5	961.4	292.8	913.7	0.94	0.95	0.95	50.04
7/22/2015	10:41:00 AM	432.4	437.2	433.4	12.7	12.5	13.1	1,269	1,265	1,296	21.7	21.8	20.6	910.1	976.6	308.4	961.0	0.94	0.95	0.95	50.02
7/22/2015	10:42:00 AM	432.9	437.6	433.8	12.7	12.4	13.1	1,265	1,261	1,292	21.7	21.7	20.6	908.2	991.7	307.4	958.8	0.94	0.95	0.95	50.03
7/22/2015	10:43:00 AM	432.9	437.4	433.6	12.8	12.5	13.1	1,253	1,250	1,281	21.8	21.8	20.6	899.4	1,006.7	304.9	949.7	0.94	0.95	0.95	50.00
7/22/2015	10:44:00 AM	433.4	437.8	434.1	12.5	12.2	12.9	1,220	1,219	1,249	21.9	21.9	20.7	877.7	1,021.3	297.1	926.7	0.94	0.95	0.95	49.98
7/22/2015	10:45:00 AM	433.1	437.7	433.9	12.8	12.5	13.2	1,258	1,255	1,286	21.7	21.7	20.5	903.5	1,036.4	306.4	954.1	0.94	0.95	0.95	49.96
7/22/2015	10:46:00 AM	432.5	437.2	433.3	12.9	12.6	13.2	1,263	1,260	1,293	21.6	21.6	20.5	906.5	1,051.5	307.6	957.3	0.94	0.95	0.95	49.95
7/22/2015	10:47:00 AM	432.4	437.2	433.2	12.8	12.5	13.3	1,264	1,262	1,293	21.7	21.6	20.5	907.1	1,066.6	307.7	957.9	0.94	0.95	0.95	49.97
7/22/2015	10:48:00 AM	432.0	436.8	432.8	12.9	12.6	13.2	1,264	1,263	1,293	21.7	21.6	20.4	906.5	1,081.7	307.7	957.3	0.94	0.95	0.95	50.02
7/22/2015	10:49:00 AM	433.2	438.0	434.0	12.8	12.5	13.1	1,263	1,261	1,292	21.7	21.7	20.6	908.0	1,096.9	308.2	958.9	0.94	0.95	0.95	50.07
7/22/2015	10:50:00 AM	432.6	437.3	433.4	12.7	12.4	13.1	1,264	1,262	1,292	21.8	21.9	20.7	907.3	1,112.0	308.3	958.2	0.94	0.95	0.95	50.10

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	10:51:00 AM	432.0	436.7	432.8	12.8	12.5	13.2	1,264	1,262	1,292	21.8	21.8	20.7	905.9	1,127.1	308.0	956.9	0.94	0.95	0.95	50.13
7/22/2015	10:52:00 AM	431.2	436.0	432.1	12.9	12.6	13.2	1,265	1,262	1,292	21.8	21.8	20.7	904.5	1,142.2	307.2	955.3	0.94	0.95	0.95	50.12
7/22/2015	10:53:00 AM	432.7	437.3	433.6	12.0	11.7	12.4	1,127	1,128	1,155	22.4	22.2	21.1	809.5	1,155.7	274.2	854.7	0.94	0.95	0.95	50.11
7/22/2015	10:54:00 AM	431.0	435.8	431.8	13.0	12.8	13.4	1,264	1,261	1,292	21.6	21.6	20.4	903.6	1,170.7	307.1	954.4	0.94	0.95	0.95	50.08
7/22/2015	10:55:00 AM	433.7	438.4	434.5	12.4	12.1	12.8	1,185	1,186	1,214	22.2	22.0	20.9	853.0	1,184.9	289.7	900.8	0.94	0.95	0.95	50.05
7/22/2015	10:56:00 AM	441.5	445.2	442.0	8.7	8.5	9.1	628	646	661	25.7	24.5	23.3	469.2	1,192.8	157.4	494.9	0.94	0.95	0.95	50.01
7/22/2015	10:57:00 AM	441.0	444.7	441.6	8.7	8.4	9.1	635	652	667	25.6	24.5	23.3	473.3	1,200.6	158.7	499.3	0.94	0.95	0.95	50.01
7/22/2015	10:58:00 AM	368.1	371.3	368.8	7.4	7.2	7.8	559	571	582	21.0	20.2	19.4	414.1	1,207.5	138.9	436.8	0.79	0.79	0.79	41.67
7/22/2015	10:59:00 AM	-	-	-	-	-	-	-	-	0	-	-	-	-	1,207.5	-	-	-	-	-	---
7/22/2015	11:00:00 AM	348.5	348.2	348.0	1.8	1.8	1.9	12	13	14	11.0	13.8	29.7	8.8	1,207.7	4.8	10.4	0.21	0.21	0.24	38.55
7/22/2015	11:01:00 AM	460.7	460.3	460.8	7.6	7.5	7.4	74	72	73	32.0	32.5	32.0	54.0	1,208.6	21.8	58.2	0.93	0.93	0.93	51.06
7/22/2015	11:02:00 AM	460.5	460.0	460.6	7.6	7.5	7.4	74	72	73	32.1	32.5	32.1	54.1	1,209.5	21.8	58.3	0.93	0.93	0.93	51.03
7/22/2015	11:03:00 AM	460.2	459.7	460.3	7.6	7.5	7.5	74	72	73	32.1	32.5	32.1	54.1	1,210.4	21.8	58.3	0.93	0.93	0.93	51.02
7/22/2015	11:04:00 AM	459.9	459.5	460.0	7.6	7.5	7.5	74	72	73	32.1	32.5	32.0	54.0	1,211.3	21.8	58.3	0.93	0.93	0.93	51.00
7/22/2015	11:05:00 AM	390.1	387.1	389.9	6.4	6.0	5.3	51	50	51	24.1	27.4	29.7	37.1	1,211.9	15.1	40.1	0.65	0.65	0.62	42.54
7/22/2015	11:06:00 AM	351.9	351.8	352.5	2.7	2.7	2.9	87	92	91	13.8	21.1	27.5	65.9	1,213.0	23.3	71.0	0.27	0.31	0.29	37.52
7/22/2015	11:07:00 AM	449.1	452.9	449.6	8.3	8.0	8.6	675	691	702	25.9	24.8	24.0	510.4	1,221.5	169.9	538.0	0.95	0.95	0.95	50.04
7/22/2015	11:08:00 AM	446.5	450.3	447.0	8.6	8.4	9.0	682	698	711	25.5	24.5	23.7	513.2	1,230.1	171.1	541.0	0.95	0.95	0.95	50.01
7/22/2015	11:09:00 AM	443.9	447.8	444.5	9.1	9.0	9.5	755	768	783	25.1	24.2	23.3	561.9	1,239.4	187.9	592.5	0.95	0.95	0.95	50.02
7/22/2015	11:10:00 AM	436.9	441.6	437.7	12.1	11.9	12.6	1,221	1,222	1,250	22.5	22.4	21.3	886.3	1,254.2	300.9	936.0	0.94	0.95	0.95	50.02
7/22/2015	11:11:00 AM	442.5	446.6	443.1	9.5	9.3	9.9	835	846	863	24.8	24.0	23.2	617.3	1,264.5	206.9	651.1	0.95	0.95	0.95	50.03
7/22/2015	11:12:00 AM	444.7	448.6	445.3	8.4	8.2	8.8	666	681	693	25.7	24.6	23.9	498.7	1,272.8	165.9	525.6	0.95	0.95	0.95	50.02
7/22/2015	11:13:00 AM	443.7	447.5	444.3	8.7	8.5	9.1	668	683	695	25.5	24.5	23.7	498.9	1,281.1	166.5	526.0	0.95	0.95	0.95	50.00
7/22/2015	11:14:00 AM	443.9	447.7	444.5	8.6	8.4	9.0	668	682	695	25.5	24.6	23.7	499.2	1,289.4	166.5	526.2	0.95	0.95	0.95	49.98
7/22/2015	11:15:00 AM	443.0	446.9	443.6	8.6	8.4	9.0	670	685	697	25.6	24.7	23.8	499.6	1,297.8	166.6	526.7	0.95	0.95	0.95	49.97
7/22/2015	11:16:00 AM	442.3	446.1	442.9	8.7	8.5	9.1	672	686	698	25.5	24.5	23.7	500.0	1,306.1	166.9	527.2	0.95	0.95	0.95	49.96
7/22/2015	11:17:00 AM	442.6	446.4	443.3	8.6	8.4	8.9	670	683	695	25.5	24.6	23.7	498.4	1,314.4	166.0	525.4	0.95	0.95	0.95	49.96
7/22/2015	11:18:00 AM	440.9	444.7	441.7	8.7	8.5	9.1	673	686	697	25.3	24.4	23.6	498.4	1,322.7	166.1	525.4	0.95	0.95	0.95	50.00
7/22/2015	11:19:00 AM	438.9	442.6	439.6	8.7	8.5	9.1	723	734	748	25.2	24.4	23.6	531.9	1,331.6	177.0	560.6	0.95	0.95	0.95	50.03
7/22/2015	11:20:00 AM	435.6	439.9	436.4	10.5	10.2	10.9	1,002	1,006	1,030	23.8	23.3	22.3	726.2	1,343.7	243.9	766.1	0.94	0.95	0.95	50.02

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	11:21:00 AM	434.5	438.9	435.3	11.3	11.0	11.6	1,061	1,061	1,087	22.9	22.9	21.7	766.5	1,356.5	257.4	808.5	0.95	0.95	0.95	49.99
7/22/2015	11:22:00 AM	435.0	439.4	435.9	11.4	11.1	11.7	1,051	1,050	1,076	22.9	22.8	21.7	759.7	1,369.1	255.5	801.5	0.95	0.95	0.95	49.99
7/22/2015	11:23:00 AM	437.1	441.4	437.9	10.2	9.9	10.5	914	917	939	24.0	23.5	22.5	664.6	1,380.2	222.9	701.1	0.94	0.95	0.95	50.00
7/22/2015	11:24:00 AM	442.3	446.0	443.0	7.1	6.9	7.6	460	478	484	27.3	25.4	25.1	345.4	1,386.0	116.2	364.4	0.94	0.95	0.95	50.01
7/22/2015	11:25:00 AM	440.2	444.0	440.8	8.4	8.1	8.7	592	610	623	26.1	24.8	23.8	441.1	1,393.3	148.1	465.3	0.94	0.95	0.95	50.00
7/22/2015	11:26:00 AM	440.0	443.6	440.4	8.6	8.3	9.0	611	633	646	26.1	24.6	23.5	456.6	1,400.9	153.6	481.7	0.94	0.95	0.95	49.98
7/22/2015	11:27:00 AM	439.4	443.1	440.1	8.2	8.0	8.6	554	575	583	26.4	24.8	24.2	413.0	1,407.8	139.2	435.9	0.94	0.95	0.95	49.97
7/22/2015	11:28:00 AM	439.9	443.7	440.6	8.2	8.0	8.6	589	606	614	26.0	24.7	24.1	437.5	1,415.1	146.3	461.3	0.95	0.95	0.95	50.01
7/22/2015	11:29:00 AM	440.7	444.4	441.5	8.1	7.9	8.5	569	586	594	26.1	24.8	24.2	423.7	1,422.2	142.1	446.9	0.95	0.95	0.95	50.03
7/22/2015	11:30:00 AM	437.8	441.5	438.5	8.1	7.9	8.5	571	588	596	26.1	24.7	24.2	422.3	1,429.2	141.6	445.4	0.95	0.95	0.95	50.05
7/22/2015	11:31:00 AM	439.8	443.6	440.6	8.3	8.1	8.7	604	621	630	25.9	24.6	24.0	448.3	1,436.7	150.1	472.8	0.95	0.95	0.95	50.05
7/22/2015	11:32:00 AM	439.2	443.1	440.0	9.0	8.8	9.4	653	670	682	25.5	24.3	23.4	483.9	1,444.7	162.4	510.4	0.94	0.95	0.95	50.04
7/22/2015	11:33:00 AM	431.0	435.5	431.9	12.3	12.0	12.7	1,121	1,124	1,151	22.4	22.1	21.0	802.5	1,458.1	273.2	847.7	0.94	0.95	0.95	50.02
7/22/2015	11:34:00 AM	430.7	435.5	431.6	12.9	12.6	13.2	1,263	1,261	1,292	22.0	21.9	20.8	902.5	1,473.1	307.4	953.5	0.94	0.95	0.95	50.03
7/22/2015	11:35:00 AM	442.8	446.8	443.6	8.6	8.4	8.9	782	795	811	25.5	24.5	23.7	580.8	1,482.8	192.7	611.9	0.95	0.95	0.95	50.03
7/22/2015	11:36:00 AM	444.9	448.8	445.7	7.8	7.6	8.1	658	675	686	26.3	25.0	24.3	494.2	1,491.1	162.8	520.3	0.95	0.95	0.95	49.98
7/22/2015	11:37:00 AM	444.3	448.2	445.0	7.8	7.5	8.2	664	680	692	26.1	25.0	24.2	497.7	1,499.4	164.0	524.1	0.95	0.95	0.95	49.95
7/22/2015	11:38:00 AM	442.8	446.7	443.6	8.4	8.1	8.8	667	682	695	25.7	24.7	23.9	497.6	1,507.6	165.6	524.5	0.95	0.95	0.95	49.94
7/22/2015	11:39:00 AM	442.3	446.1	443.1	8.5	8.3	8.8	658	673	685	25.7	24.7	23.9	490.0	1,515.8	163.6	516.6	0.95	0.95	0.95	49.95
7/22/2015	11:40:00 AM	441.6	445.3	442.3	8.5	8.3	8.9	632	649	659	25.8	24.7	23.9	470.7	1,523.7	157.7	496.5	0.94	0.95	0.95	49.95
7/22/2015	11:41:00 AM	439.3	443.1	440.1	8.9	8.7	9.4	636	651	663	25.4	24.3	23.5	470.6	1,531.5	158.2	496.6	0.94	0.95	0.95	49.95
7/22/2015	11:42:00 AM	438.5	442.3	439.3	9.4	9.2	9.8	639	654	667	25.0	24.1	23.2	471.9	1,539.4	159.4	498.1	0.94	0.95	0.95	50.01
7/22/2015	11:43:00 AM	436.3	440.5	437.2	10.6	10.4	11.0	860	868	889	23.8	23.3	22.2	625.6	1,549.8	211.7	660.5	0.94	0.95	0.95	50.02
7/22/2015	11:44:00 AM	430.6	435.4	431.6	13.2	12.9	13.5	1,240	1,235	1,268	21.6	21.6	20.4	885.0	1,564.5	301.7	935.0	0.94	0.95	0.95	50.04
7/22/2015	11:45:00 AM	430.8	435.6	431.8	13.0	12.7	13.3	1,232	1,227	1,258	21.6	21.7	20.4	879.5	1,579.2	298.9	929.0	0.94	0.95	0.95	50.04
7/22/2015	11:46:00 AM	431.4	436.2	432.4	12.9	12.6	13.2	1,255	1,250	1,281	21.7	21.7	20.5	897.3	1,594.2	304.8	947.6	0.94	0.95	0.95	50.04
7/22/2015	11:47:00 AM	433.8	438.6	434.8	12.4	12.1	12.8	1,267	1,263	1,294	22.0	22.1	20.9	911.5	1,609.3	308.6	962.4	0.94	0.95	0.95	50.03
7/22/2015	11:48:00 AM	434.4	439.1	435.3	12.4	12.1	12.8	1,255	1,253	1,284	22.1	22.1	20.9	904.9	1,624.4	306.8	955.5	0.94	0.95	0.95	50.04
7/22/2015	11:49:00 AM	435.4	440.1	436.3	12.1	11.9	12.6	1,187	1,187	1,217	22.3	22.2	21.0	859.0	1,638.7	290.7	906.8	0.94	0.95	0.95	50.05
7/22/2015	11:50:00 AM	436.0	440.7	437.0	12.3	12.0	12.7	1,200	1,198	1,230	22.3	22.2	21.0	869.1	1,653.2	294.4	917.6	0.94	0.95	0.95	50.04

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	11:51:00 AM	435.1	439.9	436.0	12.8	12.6	13.2	1,239	1,237	1,269	21.9	21.9	20.7	894.8	1,668.1	304.6	945.3	0.94	0.95	0.95	50.01
7/22/2015	11:52:00 AM	436.5	441.2	437.4	12.4	12.2	12.9	1,197	1,197	1,227	22.3	22.2	20.9	868.1	1,682.6	294.8	916.8	0.94	0.95	0.95	49.98
7/22/2015	11:53:00 AM	436.3	440.9	437.1	12.3	12.0	12.7	1,198	1,200	1,229	22.3	22.2	21.1	869.2	1,697.1	294.9	917.9	0.94	0.95	0.95	49.96
7/22/2015	11:54:00 AM	436.5	441.2	437.4	12.7	12.4	13.1	1,239	1,238	1,268	22.2	22.1	20.9	897.7	1,712.1	305.8	948.4	0.94	0.95	0.95	50.00
7/22/2015	11:55:00 AM	436.8	441.6	437.7	12.8	12.6	13.2	1,261	1,258	1,288	22.0	22.0	20.8	913.2	1,727.3	311.0	964.8	0.94	0.95	0.95	50.03
7/22/2015	11:56:00 AM	436.2	441.1	437.1	12.7	12.5	13.1	1,262	1,260	1,290	22.0	22.0	20.8	913.3	1,742.5	310.5	964.6	0.94	0.95	0.95	50.03
7/22/2015	11:57:00 AM	434.8	439.8	435.8	12.8	12.6	13.3	1,262	1,261	1,290	21.9	21.9	20.8	910.6	1,757.7	310.1	962.0	0.94	0.95	0.95	50.00
7/22/2015	11:58:00 AM	434.6	439.5	435.6	13.1	12.8	13.5	1,261	1,259	1,290	21.8	21.7	20.6	909.2	1,772.8	310.1	960.7	0.94	0.95	0.95	49.99
7/22/2015	11:59:00 AM	434.9	439.8	435.9	13.1	12.8	13.5	1,262	1,259	1,289	21.8	21.7	20.6	909.7	1,788.0	310.2	961.2	0.94	0.95	0.95	49.97
7/22/2015	12:00:00 PM	439.6	444.2	440.4	11.7	11.4	12.1	1,150	1,151	1,178	22.8	22.7	21.6	839.3	1,802.0	284.0	886.1	0.94	0.95	0.95	49.96
7/22/2015	12:01:00 PM	445.8	449.7	446.5	8.7	8.4	9.0	701	715	729	25.5	24.6	23.7	525.9	1,810.7	175.2	554.3	0.95	0.95	0.95	49.97
7/22/2015	12:02:00 PM	443.9	447.9	444.6	8.9	8.6	9.2	702	716	730	25.3	24.4	23.5	524.1	1,819.5	175.1	552.6	0.94	0.95	0.95	50.00
7/22/2015	12:03:00 PM	443.1	447.0	443.8	8.9	8.7	9.3	703	717	731	25.2	24.4	23.5	524.0	1,828.2	175.1	552.5	0.95	0.95	0.95	50.03
7/22/2015	12:04:00 PM	444.2	448.1	444.9	9.0	8.7	9.3	702	715	730	25.2	24.4	23.4	524.1	1,837.0	175.1	552.6	0.95	0.95	0.95	50.05
7/22/2015	12:05:00 PM	444.8	448.5	445.4	9.0	8.7	9.3	701	713	728	25.2	24.4	23.4	523.3	1,845.7	174.8	551.7	0.95	0.95	0.95	50.06
7/22/2015	12:06:00 PM	445.2	448.6	445.8	8.8	8.6	9.2	702	714	726	25.1	24.4	23.6	523.9	1,854.4	174.7	552.3	0.95	0.95	0.95	50.09
7/22/2015	12:07:00 PM	443.7	447.6	444.3	9.9	9.6	10.3	914	922	939	24.3	23.8	22.9	674.9	1,865.7	226.5	712.0	0.95	0.95	0.95	50.10
7/22/2015	12:08:00 PM	442.1	446.3	442.8	10.4	10.2	10.8	1,110	1,113	1,136	23.6	23.5	22.4	815.3	1,879.2	273.0	859.8	0.95	0.95	0.95	50.09
7/22/2015	12:09:00 PM	446.9	450.5	447.4	8.4	8.2	8.8	823	834	849	25.3	24.6	23.8	616.5	1,889.5	203.2	649.1	0.95	0.95	0.95	50.08
7/22/2015	12:10:00 PM	446.6	450.4	447.2	8.7	8.5	9.0	824	834	851	25.0	24.4	23.5	616.3	1,899.8	203.9	649.2	0.95	0.95	0.95	50.08
7/22/2015	12:11:00 PM	442.9	447.1	443.7	10.3	10.0	10.6	1,057	1,061	1,084	23.7	23.5	22.4	778.4	1,912.8	260.2	820.7	0.95	0.95	0.95	50.05
7/22/2015	12:12:00 PM	438.3	442.8	439.0	11.4	11.2	11.8	1,252	1,253	1,279	22.7	22.6	21.6	911.7	1,928.0	305.8	961.6	0.95	0.95	0.95	50.02
7/22/2015	12:13:00 PM	442.1	445.9	442.6	8.7	8.5	9.1	751	764	778	25.1	24.3	23.5	557.5	1,937.2	184.8	587.4	0.95	0.95	0.95	50.01
7/22/2015	12:14:00 PM	442.2	446.0	442.9	8.4	8.2	8.8	740	752	766	25.3	24.6	23.7	549.3	1,946.4	181.6	578.6	0.95	0.95	0.95	50.00
7/22/2015	12:15:00 PM	443.7	447.5	444.3	8.4	8.1	8.7	737	749	763	25.3	24.6	23.7	549.1	1,955.6	181.5	578.3	0.95	0.95	0.95	50.01
7/22/2015	12:16:00 PM	444.4	448.1	444.9	8.5	8.3	8.9	736	749	761	25.3	24.5	23.7	549.0	1,964.7	181.9	578.3	0.95	0.95	0.95	49.98
7/22/2015	12:17:00 PM	447.7	450.9	448.4	5.7	5.6	6.0	353	364	365	28.9	26.5	28.2	264.0	1,969.1	90.1	279.0	0.94	0.95	0.94	49.96
7/22/2015	12:18:00 PM	450.4	453.7	451.2	4.3	4.2	4.6	177	189	184	31.0	27.4	30.8	135.0	1,971.4	48.2	143.4	0.94	0.95	0.93	49.97
7/22/2015	12:19:00 PM	450.3	453.5	451.0	4.4	4.3	4.7	177	189	184	31.0	27.5	31.0	135.1	1,973.6	48.4	143.5	0.94	0.95	0.93	49.94
7/22/2015	12:20:00 PM	447.7	451.1	448.3	6.0	5.9	6.3	352	367	366	28.7	26.3	27.7	265.7	1,978.0	90.3	280.7	0.94	0.95	0.94	49.93

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/22/2015	12:21:00 PM	445.3	448.8	445.9	7.3	7.1	7.7	501	517	521	26.7	25.2	25.2	376.6	1,984.3	125.8	397.1	0.95	0.95	0.95	49.93
7/22/2015	12:22:00 PM	445.1	448.5	445.8	7.2	7.1	7.6	501	517	521	26.7	25.3	25.2	376.6	1,990.6	125.7	397.0	0.95	0.95	0.95	49.92
7/22/2015	12:23:00 PM	445.1	448.4	445.7	7.1	6.9	7.5	502	518	521	26.8	25.3	25.2	376.8	1,996.9	125.7	397.3	0.95	0.95	0.95	49.95
7/22/2015	12:24:00 PM	445.4	448.9	446.1	6.9	6.8	7.3	502	518	522	26.8	25.3	25.2	377.7	2,003.2	125.4	398.0	0.95	0.95	0.95	50.00
7/22/2015	12:25:00 PM	444.8	448.5	445.5	7.8	7.6	8.2	595	609	616	26.1	24.9	24.7	444.2	2,010.6	148.4	468.4	0.95	0.95	0.95	50.00
7/22/2015	12:26:00 PM	439.2	443.4	439.8	11.1	10.8	11.5	1,056	1,061	1,086	23.1	22.9	21.8	773.2	2,023.5	259.4	815.6	0.94	0.95	0.95	50.01
7/22/2015	12:27:00 PM	445.0	448.6	445.8	7.9	7.7	8.2	591	605	612	26.0	24.9	24.5	441.8	2,030.8	147.8	465.9	0.95	0.95	0.95	50.01
7/22/2015	12:28:00 PM	446.5	449.8	447.3	7.2	7.1	7.6	522	536	540	26.5	25.3	25.2	391.9	2,037.3	131.0	413.2	0.95	0.95	0.95	50.00
7/22/2015	12:29:00 PM	446.5	449.8	447.2	7.6	7.4	8.0	559	573	579	26.2	25.0	24.7	419.7	2,044.3	140.3	442.6	0.95	0.95	0.95	49.99
7/22/2015	12:30:00 PM	446.2	449.5	446.8	7.8	7.6	8.2	585	600	605	26.0	24.8	24.6	438.8	2,051.7	146.4	462.6	0.95	0.95	0.95	50.02
7/22/2015	12:31:00 PM	446.2	449.6	446.8	8.5	8.3	8.8	654	669	678	25.4	24.5	23.9	490.5	2,059.8	163.5	517.0	0.95	0.95	0.95	50.01
7/22/2015	12:32:00 PM	444.7	448.2	445.3	8.9	8.7	9.3	732	745	759	24.9	24.2	23.3	546.6	2,068.9	181.6	576.0	0.95	0.95	0.95	50.04
7/22/2015	12:33:00 PM	445.1	448.6	445.7	9.0	8.7	9.3	735	747	761	24.9	24.2	23.3	548.5	2,078.1	182.2	578.0	0.95	0.95	0.95	50.07
7/22/2015	12:34:00 PM	445.0	448.5	445.6	9.1	8.9	9.5	735	748	762	24.9	24.1	23.2	549.3	2,087.2	182.9	578.9	0.95	0.95	0.95	50.08
7/22/2015	12:35:00 PM	445.5	449.0	446.1	9.1	8.9	9.5	735	748	761	24.8	24.0	23.2	549.6	2,096.4	182.9	579.3	0.95	0.95	0.95	50.08
7/22/2015	12:36:00 PM	446.0	449.6	446.6	9.0	8.8	9.4	726	740	752	24.8	24.1	23.3	543.9	2,105.5	181.1	573.3	0.95	0.95	0.95	50.09
7/22/2015	12:37:00 PM	441.8	446.0	442.4	11.3	11.0	11.7	1,060	1,065	1,088	22.9	22.6	21.6	778.7	2,118.4	262.2	821.7	0.95	0.95	0.95	50.09
7/22/2015	12:38:00 PM	441.2	445.5	441.8	11.9	11.6	12.3	1,088	1,092	1,116	22.5	22.3	21.3	797.3	2,131.7	270.0	841.8	0.94	0.95	0.95	50.07
7/22/2015	12:39:00 PM	446.7	450.1	447.2	9.1	8.9	9.5	664	681	690	25.0	24.0	23.5	499.1	2,140.1	167.6	526.5	0.95	0.95	0.95	50.06
7/22/2015	12:40:00 PM	447.2	450.6	447.8	8.9	8.6	9.2	633	649	657	25.3	24.2	23.8	475.9	2,148.0	159.9	502.1	0.95	0.95	0.95	50.06
7/22/2015	12:41:00 PM	447.0	450.4	447.7	8.6	8.4	9.0	593	609	615	25.5	24.4	24.1	445.7	2,155.4	150.2	470.4	0.95	0.95	0.95	50.07
7/22/2015	12:42:00 PM	446.6	450.0	447.3	8.7	8.5	9.0	607	623	629	25.5	24.4	24.0	456.0	2,163.0	153.4	481.1	0.95	0.95	0.95	50.06
7/22/2015	12:43:00 PM	446.7	450.2	447.4	8.8	8.6	9.2	627	644	651	25.4	24.2	23.8	471.3	2,170.9	158.4	497.2	0.95	0.95	0.95	50.04
7/22/2015	12:44:00 PM	446.4	449.8	447.0	9.0	8.7	9.3	644	660	668	25.2	24.2	23.7	483.1	2,178.9	162.4	509.7	0.95	0.95	0.95	50.01
7/22/2015	12:45:00 PM	446.7	450.1	447.3	9.0	8.8	9.4	643	659	668	25.2	24.2	23.6	483.0	2,187.0	162.5	509.7	0.95	0.95	0.95	50.00
7/22/2015	12:46:00 PM	448.0	451.5	448.6	8.8	8.6	9.2	641	657	666	25.3	24.3	23.7	483.2	2,195.0	162.2	509.8	0.95	0.95	0.95	49.99
7/22/2015	12:47:00 PM	450.5	453.9	451.2	7.6	7.5	8.0	471	484	491	22.6	24.7	27.0	354.9	2,200.9	121.2	375.4	0.72	0.73	0.72	49.99
7/22/2015	12:48:00 PM	457.0	460.1	458.0	3.9	3.8	4.1	-	-	0	-	-	4.6	-0.0	2,200.9	0.0	0.0	-	-	-	50.01
7/22/2015	12:49:00 PM	456.9	460.2	457.9	3.7	3.7	4.0	-	-	-	-	-	-	-	2,200.9	-	-	-	-	-	50.00
7/22/2015	12:50:00 PM	456.6	459.9	457.6	3.9	3.9	4.2	-	-	0	-	-	4.8	-0.0	2,200.9	0.0	0.0	-	-	-	49.99

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	12:51:00 PM	456.8	460.1	457.8	4.0	4.0	4.2	0	1	1	1.8	5.7	11.3	0.3	2,200.9	0.6	0.7	0.02	0.04	0.03	49.99
7/22/2015	12:52:00 PM	443.8	448.0	444.5	11.2	10.9	11.5	1,049	1,050	1,075	23.7	23.2	22.4	772.7	2,213.8	260.4	815.5	0.94	0.95	0.95	49.95
7/22/2015	12:53:00 PM	443.0	447.4	443.7	11.8	11.5	12.1	1,160	1,158	1,187	22.5	22.5	21.4	853.1	2,228.0	286.6	900.0	0.95	0.95	0.95	49.96
7/22/2015	12:54:00 PM	443.2	447.6	443.9	11.7	11.3	12.0	1,162	1,160	1,189	22.6	22.6	21.5	855.2	2,242.3	287.1	902.1	0.95	0.95	0.95	49.97
7/22/2015	12:55:00 PM	443.8	448.3	444.6	11.7	11.4	12.0	1,169	1,167	1,196	22.6	22.6	21.4	861.8	2,256.7	289.2	909.1	0.95	0.95	0.95	49.98
7/22/2015	12:56:00 PM	443.3	447.8	444.0	12.0	11.7	12.4	1,170	1,170	1,200	22.4	22.3	21.1	862.3	2,271.0	290.4	910.0	0.94	0.95	0.95	50.01
7/22/2015	12:57:00 PM	443.3	447.8	444.0	12.0	11.7	12.4	1,168	1,168	1,198	22.3	22.3	21.1	861.0	2,285.4	289.9	908.5	0.94	0.95	0.95	50.06
7/22/2015	12:58:00 PM	443.6	448.0	444.4	11.9	11.6	12.2	1,141	1,142	1,172	22.5	22.4	21.1	842.5	2,299.4	283.4	888.9	0.94	0.95	0.95	50.08
7/22/2015	12:59:00 PM	443.5	448.0	444.3	11.9	11.7	12.4	1,165	1,165	1,195	22.4	22.4	21.1	859.2	2,313.7	289.4	906.6	0.94	0.95	0.95	50.07
7/22/2015	1:00:00 PM	443.5	448.0	444.2	12.2	11.9	12.6	1,170	1,170	1,200	22.2	22.2	21.0	862.6	2,328.1	291.1	910.4	0.94	0.95	0.95	50.08
7/22/2015	1:01:00 PM	444.0	448.5	444.7	12.2	11.9	12.6	1,167	1,167	1,197	22.1	22.1	20.8	861.6	2,342.5	290.4	909.2	0.94	0.95	0.95	50.09
7/22/2015	1:02:00 PM	444.5	449.0	445.3	12.2	11.9	12.6	1,164	1,163	1,192	22.0	22.0	20.8	859.5	2,356.8	289.3	906.9	0.95	0.95	0.95	50.09
7/22/2015	1:03:00 PM	445.8	450.4	446.7	12.1	11.8	12.4	1,161	1,161	1,190	22.2	22.1	21.0	860.4	2,371.1	289.4	907.8	0.94	0.95	0.95	50.11
7/22/2015	1:04:00 PM	446.4	451.1	447.3	12.0	11.7	12.4	1,159	1,160	1,188	22.2	22.2	21.0	860.7	2,385.5	289.1	908.0	0.95	0.95	0.95	50.13
7/22/2015	1:05:00 PM	447.0	451.6	447.8	12.0	11.7	12.3	1,158	1,158	1,187	22.2	22.2	21.0	860.6	2,399.8	289.0	907.9	0.95	0.95	0.95	50.16
7/22/2015	1:06:00 PM	448.1	452.7	449.0	12.0	11.6	12.3	1,156	1,157	1,186	22.2	22.2	21.0	861.9	2,414.2	289.3	909.2	0.95	0.95	0.95	50.19
7/22/2015	1:07:00 PM	448.8	453.4	449.6	11.9	11.6	12.3	1,155	1,156	1,185	22.4	22.3	21.1	862.4	2,428.6	289.5	909.7	0.95	0.95	0.95	50.20
7/22/2015	1:08:00 PM	455.5	459.4	456.2	8.8	8.5	9.1	777	791	805	25.1	24.2	23.5	594.0	2,438.5	196.7	625.8	0.95	0.95	0.95	50.21
7/22/2015	1:09:00 PM	456.8	460.4	457.4	8.4	8.1	8.7	686	703	713	25.5	24.4	23.8	528.3	2,447.3	174.8	556.5	0.95	0.95	0.95	50.20
7/22/2015	1:10:00 PM	456.4	460.1	457.1	8.5	8.2	8.8	686	702	714	25.4	24.4	23.7	527.8	2,456.1	174.9	556.0	0.95	0.95	0.95	50.17
7/22/2015	1:11:00 PM	456.5	460.1	457.2	8.6	8.3	8.9	687	703	712	25.3	24.3	23.7	527.5	2,464.9	175.0	555.8	0.95	0.95	0.95	50.17
7/22/2015	1:12:00 PM	455.2	458.8	456.0	8.9	8.7	9.2	690	706	714	25.0	24.1	23.5	528.0	2,473.7	175.9	556.6	0.95	0.95	0.95	50.14
7/22/2015	1:13:00 PM	456.3	460.0	457.0	8.7	8.5	9.0	687	704	714	25.3	24.3	23.7	528.2	2,482.5	175.3	556.6	0.95	0.95	0.95	50.11
7/22/2015	1:14:00 PM	455.4	459.3	456.2	8.8	8.5	9.1	688	705	717	25.3	24.3	23.6	528.3	2,491.3	175.5	556.8	0.95	0.95	0.95	50.08
7/22/2015	1:15:00 PM	458.2	461.9	458.9	8.0	7.8	8.3	684	701	711	25.8	24.8	24.2	528.6	2,500.1	174.3	556.6	0.95	0.95	0.95	50.05
7/22/2015	1:16:00 PM	458.1	461.8	458.8	8.0	7.7	8.2	685	702	711	26.0	24.8	24.3	528.5	2,508.9	174.2	556.5	0.95	0.95	0.95	50.03
7/22/2015	1:17:00 PM	457.4	461.0	458.1	8.3	8.1	8.7	687	703	713	25.6	24.6	24.0	529.0	2,517.7	175.1	557.2	0.95	0.95	0.95	50.00
7/22/2015	1:18:00 PM	457.5	461.1	458.2	8.4	8.1	8.7	688	704	713	25.5	24.5	24.0	529.3	2,526.5	175.3	557.6	0.95	0.95	0.95	50.01
7/22/2015	1:19:00 PM	457.7	461.2	458.4	8.2	7.9	8.5	688	703	712	25.6	24.6	24.1	529.5	2,535.4	175.0	557.7	0.95	0.95	0.95	50.02
7/22/2015	1:20:00 PM	458.7	462.1	459.3	7.6	7.3	7.9	686	702	710	26.0	25.0	24.5	529.6	2,544.2	173.5	557.3	0.95	0.95	0.95	50.03

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	1:21:00 PM	458.0	461.5	458.6	7.7	7.4	8.0	687	703	711	26.0	24.9	24.5	529.6	2,553.0	173.8	557.4	0.95	0.95	0.95	50.05
7/22/2015	1:22:00 PM	457.6	461.1	458.2	7.8	7.5	8.1	688	704	712	25.9	24.9	24.4	529.6	2,561.8	174.0	557.5	0.95	0.95	0.95	50.06
7/22/2015	1:23:00 PM	457.7	461.3	458.5	8.1	7.9	8.5	688	704	712	25.6	24.6	24.1	529.7	2,570.7	175.4	558.0	0.95	0.95	0.95	50.06
7/22/2015	1:24:00 PM	457.7	461.3	458.4	8.1	7.8	8.4	688	704	712	25.7	24.7	24.2	529.8	2,579.5	175.5	558.1	0.95	0.95	0.95	50.06
7/22/2015	1:25:00 PM	456.9	460.4	457.8	7.4	7.2	7.7	532	547	551	26.7	25.2	25.6	408.3	2,586.3	137.0	430.7	0.95	0.95	0.94	50.04
7/22/2015	1:26:00 PM	460.9	464.2	461.8	4.7	4.6	5.0	198	210	205	30.5	27.5	30.3	154.2	2,588.9	54.4	163.6	0.94	0.95	0.94	50.02
7/22/2015	1:27:00 PM	463.5	466.7	464.4	3.9	3.8	4.2	191	202	197	30.9	27.8	31.0	149.7	2,591.4	52.5	158.7	0.94	0.95	0.93	50.03
7/22/2015	1:28:00 PM	458.5	462.1	459.2	7.2	7.0	7.5	627	642	649	26.6	25.3	25.2	483.4	2,599.4	159.3	509.0	0.95	0.95	0.95	50.02
7/22/2015	1:29:00 PM	458.2	461.8	458.9	7.7	7.4	8.0	706	722	731	26.0	25.0	24.5	544.5	2,608.5	178.6	573.1	0.95	0.95	0.95	50.01
7/22/2015	1:30:00 PM	458.2	461.9	458.9	7.7	7.5	8.0	706	721	731	26.0	25.0	24.4	544.4	2,617.6	178.7	573.0	0.95	0.95	0.95	50.03
7/22/2015	1:31:00 PM	462.0	465.5	462.9	5.2	5.0	5.5	353	366	366	29.3	26.8	28.6	273.9	2,622.1	92.6	289.2	0.94	0.95	0.94	50.04
7/22/2015	1:32:00 PM	464.1	467.4	465.1	3.9	3.8	4.2	183	195	190	31.3	28.0	31.2	143.9	2,624.5	51.0	152.7	0.94	0.95	0.93	50.04
7/22/2015	1:33:00 PM	464.0	467.3	464.9	4.0	4.0	4.4	183	194	190	31.2	27.9	31.1	143.7	2,626.9	51.0	152.5	0.94	0.95	0.93	50.05
7/22/2015	1:34:00 PM	464.1	467.4	465.1	3.9	3.8	4.2	183	194	189	31.2	27.9	31.1	143.7	2,629.3	50.9	152.5	0.94	0.95	0.93	50.04
7/22/2015	1:35:00 PM	463.9	467.1	464.8	4.0	4.0	4.3	184	195	190	31.1	28.0	31.1	143.9	2,631.7	51.0	152.7	0.94	0.95	0.93	50.02
7/22/2015	1:36:00 PM	464.5	467.6	465.4	3.6	3.6	3.9	183	194	189	31.2	27.9	30.9	143.6	2,634.1	50.5	152.2	0.94	0.95	0.93	49.96
7/22/2015	1:37:00 PM	464.5	467.7	465.4	3.5	3.4	3.8	183	193	189	31.2	28.0	31.1	143.3	2,636.5	50.4	152.0	0.94	0.95	0.93	49.95
7/22/2015	1:38:00 PM	462.7	465.8	463.7	4.1	4.0	4.4	183	194	190	30.9	27.9	30.7	143.3	2,638.9	50.6	152.1	0.94	0.95	0.93	49.92
7/22/2015	1:39:00 PM	461.7	464.8	462.7	4.9	4.9	5.2	184	194	191	30.7	27.6	30.2	143.4	2,641.3	51.0	152.2	0.94	0.95	0.93	49.94
7/22/2015	1:40:00 PM	461.9	465.0	462.9	4.9	4.8	5.2	184	194	190	30.7	27.7	30.3	143.2	2,643.7	51.0	152.0	0.94	0.95	0.93	49.94
7/22/2015	1:41:00 PM	462.2	465.3	463.2	4.6	4.6	4.9	184	194	190	30.7	27.8	30.4	143.1	2,646.1	50.7	151.8	0.94	0.95	0.94	49.98
7/22/2015	1:42:00 PM	461.5	464.6	462.5	4.6	4.6	4.9	184	194	190	30.7	27.7	30.4	143.2	2,648.4	50.7	151.9	0.94	0.95	0.94	50.00
7/22/2015	1:43:00 PM	458.4	461.6	459.3	6.1	6.0	6.4	354	366	366	28.5	26.4	27.7	272.4	2,653.0	92.7	287.8	0.94	0.95	0.94	50.00
7/22/2015	1:44:00 PM	455.6	458.9	456.4	7.5	7.3	7.8	534	548	552	26.4	25.2	25.1	408.7	2,659.8	136.8	431.0	0.95	0.95	0.95	50.00
7/22/2015	1:45:00 PM	454.3	457.7	455.2	7.8	7.6	8.1	537	551	555	26.2	25.0	24.8	409.9	2,666.6	137.4	432.3	0.95	0.95	0.95	50.01
7/22/2015	1:46:00 PM	451.5	455.0	452.2	9.3	9.0	9.6	722	735	747	24.8	24.0	23.3	546.8	2,675.7	182.4	576.4	0.95	0.95	0.95	50.03
7/22/2015	1:47:00 PM	454.2	457.7	454.9	8.8	8.6	9.1	725	739	750	25.1	24.3	23.7	552.7	2,684.9	183.7	582.5	0.95	0.95	0.95	50.05
7/22/2015	1:48:00 PM	454.5	458.0	455.2	8.5	8.2	8.8	724	738	748	25.3	24.5	23.8	552.5	2,694.2	183.0	582.0	0.95	0.95	0.95	50.07
7/22/2015	1:49:00 PM	454.9	458.3	455.7	7.8	7.6	8.1	613	625	633	26.3	25.2	25.2	466.6	2,701.9	155.9	491.9	0.95	0.95	0.95	50.08
7/22/2015	1:50:00 PM	461.3	464.3	462.2	4.0	4.0	4.3	115	125	120	33.3	29.0	34.2	89.8	2,703.4	34.5	96.2	0.93	0.95	0.92	50.09

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/22/2015	1:51:00 PM	461.1	464.3	462.0	4.0	4.0	4.3	114	124	119	33.7	29.2	34.6	88.8	2,704.9	34.7	95.4	0.93	0.95	0.92	50.11
7/22/2015	1:52:00 PM	457.3	460.7	458.2	6.9	6.8	7.3	460	474	478	28.4	26.1	27.6	352.9	2,710.8	119.8	372.7	0.94	0.95	0.94	50.11
7/22/2015	1:53:00 PM	453.6	457.0	454.2	9.3	9.0	9.6	715	731	744	25.1	24.1	23.3	545.7	2,719.9	182.3	575.4	0.95	0.95	0.95	50.08
7/22/2015	1:54:00 PM	452.8	456.3	453.4	9.3	9.1	9.6	719	734	748	25.0	24.1	23.2	547.5	2,729.0	182.9	577.3	0.95	0.95	0.95	50.05
7/22/2015	1:55:00 PM	453.4	456.7	454.2	8.5	8.3	8.8	591	607	613	25.7	24.4	24.1	450.6	2,736.5	151.1	475.3	0.95	0.95	0.95	50.02
7/22/2015	1:56:00 PM	455.3	458.5	456.2	7.2	7.0	7.5	458	472	473	26.8	25.3	25.5	350.8	2,742.4	117.7	370.0	0.95	0.95	0.95	49.99
7/22/2015	1:57:00 PM	454.9	458.2	455.8	7.6	7.5	8.0	512	527	529	26.4	25.0	25.1	391.6	2,748.9	131.3	413.1	0.95	0.95	0.95	49.98
7/22/2015	1:58:00 PM	453.0	456.4	453.8	8.7	8.5	9.0	650	664	671	25.6	24.5	24.2	493.3	2,757.1	165.6	520.3	0.95	0.95	0.95	49.97
7/22/2015	1:59:00 PM	446.8	451.0	447.6	11.8	11.5	12.1	1,115	1,119	1,145	23.0	22.8	21.7	828.8	2,770.9	280.6	875.0	0.94	0.95	0.95	49.96
7/22/2015	2:00:00 PM	454.9	458.1	455.8	8.0	7.8	8.3	570	586	590	26.3	24.7	24.9	434.8	2,778.2	146.8	459.0	0.95	0.95	0.94	49.98
7/22/2015	2:01:00 PM	455.6	458.7	456.4	8.0	7.8	8.4	555	576	580	26.4	24.7	24.7	428.1	2,785.3	143.5	451.5	0.95	0.95	0.95	50.03
7/22/2015	2:02:00 PM	454.0	457.2	454.7	8.7	8.5	9.0	632	651	656	25.7	24.4	24.1	483.5	2,793.4	161.8	509.8	0.95	0.95	0.95	50.06
7/22/2015	2:03:00 PM	453.0	456.4	453.6	8.9	8.7	9.3	663	680	688	25.3	24.2	23.7	505.5	2,801.8	168.8	532.9	0.95	0.95	0.95	50.04
7/22/2015	2:04:00 PM	451.9	455.3	452.6	9.0	8.8	9.4	653	670	678	25.2	24.1	23.6	496.8	2,810.1	166.4	524.0	0.95	0.95	0.95	50.06
7/22/2015	2:05:00 PM	452.6	455.9	453.4	8.5	8.3	8.8	589	606	610	25.6	24.4	24.2	448.7	2,817.5	150.1	473.1	0.95	0.95	0.95	50.08
7/22/2015	2:06:00 PM	451.8	455.1	452.5	8.5	8.3	8.9	592	608	612	25.6	24.4	24.2	449.4	2,825.0	150.7	474.1	0.95	0.95	0.95	50.09
7/22/2015	2:07:00 PM	449.9	453.3	450.6	9.2	9.0	9.5	667	682	691	25.0	24.0	23.5	504.0	2,833.4	169.1	531.6	0.95	0.95	0.95	50.07
7/22/2015	2:08:00 PM	449.8	453.1	450.5	9.6	9.3	9.9	670	685	694	24.7	23.8	23.2	506.0	2,841.9	170.2	533.9	0.95	0.95	0.95	50.08
7/22/2015	2:09:00 PM	448.9	452.3	449.7	9.6	9.4	9.9	670	685	694	24.7	23.8	23.2	504.9	2,850.3	169.9	532.8	0.95	0.95	0.95	50.06
7/22/2015	2:10:00 PM	446.8	450.3	447.6	10.4	10.1	10.7	790	800	814	24.1	23.3	22.6	588.6	2,860.1	198.9	621.3	0.95	0.95	0.95	50.03
7/22/2015	2:11:00 PM	440.3	444.7	441.2	13.4	13.1	13.7	1,262	1,261	1,289	21.5	21.5	20.5	920.9	2,875.4	314.7	973.2	0.94	0.95	0.95	50.02
7/22/2015	2:12:00 PM	452.1	455.7	453.2	7.3	7.3	7.6	332	333	341	5.7	5.7	5.4	239.3	2,879.4	88.4	256.9	0.25	0.25	0.25	49.98
7/22/2015	2:13:00 PM	455.4	458.7	456.6	5.1	5.1	5.3	0	1	2	1.6	1.8	1.3	0.0	2,879.4	0.6	0.8	-	0.00	-	49.97
7/22/2015	2:14:00 PM	455.3	458.6	456.5	5.2	5.1	5.4	-	-	-	-	-	-	-	2,879.4	-	-	-	-	-	49.96
7/22/2015	2:15:00 PM	448.8	452.4	449.9	8.0	7.9	8.3	442	443	454	13.5	19.7	35.0	321.6	2,884.8	111.6	341.4	0.41	0.45	0.44	49.94
7/22/2015	2:16:00 PM	438.6	442.9	439.4	13.3	13.1	13.7	1,254	1,253	1,281	21.4	21.4	20.4	911.8	2,900.0	310.9	963.4	0.94	0.95	0.95	49.93
7/22/2015	2:17:00 PM	445.9	449.3	446.5	9.4	9.2	9.8	666	681	691	24.9	24.0	23.3	498.8	2,908.3	167.7	526.3	0.95	0.95	0.95	49.92
7/22/2015	2:18:00 PM	446.3	449.6	446.9	9.2	9.0	9.5	652	668	676	25.0	24.0	23.5	489.0	2,916.5	164.1	515.8	0.95	0.95	0.95	49.92
7/22/2015	2:19:00 PM	445.5	448.9	446.2	9.4	9.2	9.7	653	668	677	24.9	23.9	23.3	488.6	2,924.6	164.4	515.6	0.95	0.95	0.95	49.92
7/22/2015	2:20:00 PM	447.2	450.6	447.8	9.2	8.9	9.5	650	667	674	25.0	24.0	23.5	488.9	2,932.7	164.2	515.8	0.95	0.95	0.95	49.92

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			% ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	2:21:00 PM	446.3	449.7	447.0	9.6	9.3	9.9	652	667	676	24.8	23.8	23.2	488.7	2,940.9	164.9	515.8	0.95	0.95	0.95	49.92
7/22/2015	2:22:00 PM	446.0	449.4	446.7	9.6	9.4	9.9	653	668	677	24.8	23.8	23.3	489.0	2,949.0	165.1	516.1	0.94	0.95	0.95	49.91
7/22/2015	2:23:00 PM	447.8	451.6	448.8	9.8	9.6	10.1	649	665	677	24.8	23.8	22.9	489.5	2,957.2	165.8	516.8	0.94	0.95	0.95	49.94
7/22/2015	2:24:00 PM	448.2	452.0	449.1	9.4	9.2	9.7	649	664	676	25.0	24.0	23.2	489.7	2,965.4	164.8	516.7	0.94	0.95	0.95	49.97
7/22/2015	2:25:00 PM	447.7	451.6	448.7	9.4	9.1	9.7	650	664	678	25.0	24.0	23.1	490.2	2,973.5	164.8	517.2	0.94	0.95	0.95	50.00
7/22/2015	2:26:00 PM	447.5	451.4	448.5	9.5	9.3	9.9	652	666	680	24.8	24.0	23.0	491.2	2,981.7	165.5	518.3	0.94	0.95	0.95	50.01
7/22/2015	2:27:00 PM	448.5	452.3	449.3	9.1	8.9	9.5	615	633	646	25.4	24.2	23.3	466.4	2,989.5	157.5	492.3	0.94	0.95	0.95	50.02
7/22/2015	2:28:00 PM	444.2	448.8	445.3	11.1	10.8	11.4	936	942	969	23.4	23.0	21.7	694.6	3,001.1	234.2	733.0	0.94	0.95	0.95	50.01
7/22/2015	2:29:00 PM	441.9	446.9	443.1	12.2	11.9	12.6	1,162	1,158	1,189	22.2	22.3	21.0	852.1	3,015.3	287.9	899.5	0.94	0.95	0.95	50.00
7/22/2015	2:30:00 PM	440.8	445.8	441.9	12.8	12.5	13.0	1,220	1,214	1,247	21.9	21.9	20.7	891.5	3,030.1	302.5	941.5	0.94	0.95	0.95	50.01
7/22/2015	2:31:00 PM	440.9	446.0	442.2	13.1	12.8	13.4	1,266	1,260	1,294	21.6	21.6	20.4	925.3	3,045.5	314.5	977.3	0.94	0.95	0.95	49.98
7/22/2015	2:32:00 PM	442.0	446.8	443.0	12.8	12.5	13.2	1,216	1,214	1,246	21.8	21.8	20.5	892.5	3,060.4	302.8	942.5	0.94	0.95	0.95	50.03
7/22/2015	2:33:00 PM	442.9	447.6	443.8	12.4	12.1	12.8	1,122	1,124	1,155	22.2	22.1	20.8	827.5	3,074.2	280.5	873.7	0.94	0.95	0.95	50.01
7/22/2015	2:34:00 PM	442.8	447.6	443.8	12.7	12.3	13.0	1,153	1,153	1,185	22.1	22.0	20.7	849.2	3,088.4	288.5	896.9	0.94	0.95	0.95	50.02
7/22/2015	2:35:00 PM	445.6	449.9	446.5	11.5	11.3	11.8	938	945	968	23.2	22.7	21.7	695.8	3,100.0	237.0	735.1	0.94	0.95	0.95	50.02
7/22/2015	2:36:00 PM	451.5	455.2	452.5	8.8	8.6	9.1	558	576	581	25.9	24.4	24.1	424.9	3,107.0	143.8	448.6	0.94	0.95	0.95	50.03
7/22/2015	2:37:00 PM	450.7	454.5	451.6	9.1	8.9	9.4	643	662	671	25.5	24.1	23.6	489.1	3,115.2	164.6	516.1	0.94	0.95	0.95	50.02
7/22/2015	2:38:00 PM	449.8	453.6	450.7	9.2	8.9	9.5	675	693	704	25.4	24.1	23.4	511.9	3,123.7	171.8	540.0	0.94	0.95	0.95	50.02
7/22/2015	2:39:00 PM	446.8	451.1	447.7	10.7	10.4	11.0	905	915	937	24.0	23.3	22.3	675.6	3,135.0	228.3	713.2	0.94	0.95	0.95	50.00
7/22/2015	2:40:00 PM	447.2	451.3	448.0	9.7	9.5	10.0	771	786	802	24.8	23.8	23.0	578.8	3,144.6	194.8	610.7	0.94	0.95	0.95	50.00
7/22/2015	2:41:00 PM	449.1	452.9	449.8	9.0	8.7	9.3	674	693	704	25.5	24.2	23.5	510.9	3,153.2	171.2	538.8	0.94	0.95	0.95	49.97
7/22/2015	2:42:00 PM	446.9	450.3	447.4	9.1	8.9	9.4	679	695	706	25.2	24.1	23.5	510.6	3,161.7	171.2	538.6	0.94	0.95	0.95	49.94
7/22/2015	2:43:00 PM	448.4	451.7	448.8	9.2	9.0	9.5	677	694	704	25.1	24.0	23.4	510.8	3,170.2	171.1	538.7	0.95	0.95	0.95	49.94
7/22/2015	2:44:00 PM	448.0	451.4	448.5	9.4	9.1	9.7	678	695	706	25.0	23.9	23.3	511.5	3,178.7	171.4	539.5	0.95	0.95	0.95	49.93
7/22/2015	2:45:00 PM	445.5	448.9	446.0	9.5	9.3	9.8	683	700	710	24.9	23.8	23.1	511.9	3,187.2	171.8	540.0	0.94	0.95	0.95	49.92
7/22/2015	2:46:00 PM	445.4	448.9	445.9	9.7	9.4	10.0	700	716	727	24.7	23.7	23.0	523.9	3,196.0	176.2	552.7	0.94	0.95	0.95	49.92
7/22/2015	2:47:00 PM	442.2	445.9	442.7	11.4	11.1	11.7	923	932	953	23.1	22.7	21.6	681.7	3,207.3	229.8	719.4	0.94	0.95	0.95	49.93
7/22/2015	2:48:00 PM	441.7	445.5	442.2	11.5	11.2	11.8	930	938	959	23.0	22.6	21.6	685.3	3,218.7	231.4	723.3	0.94	0.95	0.95	49.94
7/22/2015	2:49:00 PM	441.1	444.8	441.6	11.2	11.0	11.5	933	942	962	23.2	22.9	21.9	686.9	3,230.2	231.9	725.0	0.94	0.95	0.95	49.95
7/22/2015	2:50:00 PM	443.6	447.3	444.1	10.6	10.4	11.0	883	892	911	23.7	23.2	22.2	654.2	3,241.1	220.2	690.3	0.94	0.95	0.95	49.95

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	2:51:00 PM	443.7	447.7	444.3	11.4	11.1	11.7	1,035	1,041	1,063	23.1	22.7	21.8	763.6	3,253.8	258.5	806.2	0.94	0.95	0.95	49.95
7/22/2015	2:52:00 PM	439.9	444.2	440.7	13.0	12.7	13.3	1,263	1,263	1,290	21.7	21.7	20.7	921.4	3,269.2	313.5	973.3	0.94	0.95	0.95	49.93
7/22/2015	2:53:00 PM	439.8	444.1	440.5	12.9	12.6	13.2	1,262	1,262	1,289	21.8	21.8	20.7	920.4	3,284.5	313.1	972.2	0.94	0.95	0.95	49.91
7/22/2015	2:54:00 PM	437.9	442.1	438.5	13.3	13.0	13.6	1,262	1,262	1,289	21.6	21.5	20.6	916.0	3,299.8	312.7	967.9	0.94	0.95	0.95	49.91
7/22/2015	2:55:00 PM	436.3	440.5	437.1	13.5	13.2	13.8	1,262	1,262	1,287	21.5	21.4	20.5	912.0	3,315.0	311.9	963.9	0.94	0.95	0.95	49.93
7/22/2015	2:56:00 PM	436.6	441.0	437.4	13.1	12.9	13.4	1,201	1,202	1,229	21.8	21.6	20.7	869.2	3,329.5	297.6	918.7	0.94	0.95	0.95	49.95
7/22/2015	2:57:00 PM	444.8	447.9	445.3	9.3	9.1	9.6	629	647	656	25.3	24.0	23.5	471.3	3,337.3	159.5	497.6	0.94	0.95	0.95	49.94
7/22/2015	2:58:00 PM	444.3	447.3	444.9	9.4	9.2	9.7	630	647	655	25.2	24.0	23.5	470.7	3,345.2	159.4	497.0	0.94	0.95	0.95	49.94
7/22/2015	2:59:00 PM	444.4	447.6	444.9	9.4	9.1	9.7	628	646	657	25.3	24.1	23.4	470.6	3,353.0	159.6	496.9	0.94	0.95	0.95	49.92
7/22/2015	3:00:00 PM	444.7	447.9	445.3	9.4	9.2	9.8	628	647	657	25.3	24.1	23.4	471.3	3,360.9	159.8	497.7	0.94	0.95	0.95	49.93
7/22/2015	3:01:00 PM	444.6	447.9	445.2	9.4	9.2	9.8	667	683	695	25.1	24.0	23.3	498.4	3,369.2	168.4	526.1	0.94	0.95	0.95	49.93
7/22/2015	3:02:00 PM	440.6	444.5	441.4	11.5	11.3	11.8	1,035	1,036	1,061	22.9	22.8	21.7	757.8	3,381.8	255.5	799.8	0.94	0.95	0.95	49.95
7/22/2015	3:03:00 PM	442.6	446.5	443.2	11.0	10.8	11.3	1,023	1,025	1,049	23.3	23.1	22.0	753.1	3,394.4	253.1	794.5	0.94	0.95	0.95	49.97
7/22/2015	3:04:00 PM	441.0	445.0	441.7	11.5	11.2	11.8	1,025	1,026	1,051	22.8	22.7	21.6	751.4	3,406.9	253.2	792.9	0.94	0.95	0.95	49.98
7/22/2015	3:05:00 PM	449.5	453.4	450.4	8.9	8.7	9.2	758	767	783	25.3	24.3	23.7	568.6	3,416.4	190.9	599.8	0.94	0.95	0.95	50.01
7/22/2015	3:06:00 PM	452.2	455.8	453.2	7.5	7.3	7.8	550	566	574	26.7	25.3	24.8	419.8	3,423.4	140.4	442.7	0.94	0.95	0.95	50.04
7/22/2015	3:07:00 PM	451.2	455.0	452.2	8.3	8.1	8.6	664	679	692	25.9	24.7	23.9	504.8	3,431.8	168.5	532.2	0.94	0.95	0.95	50.05
7/22/2015	3:08:00 PM	451.6	455.3	452.6	8.5	8.3	8.8	672	688	700	25.7	24.6	23.9	511.4	3,440.3	171.0	539.2	0.95	0.95	0.95	50.08
7/22/2015	3:09:00 PM	451.0	454.8	451.9	8.3	8.1	8.6	673	689	701	25.8	24.6	23.9	511.7	3,448.8	170.7	539.4	0.95	0.95	0.95	50.07
7/22/2015	3:10:00 PM	450.7	454.6	451.7	8.3	8.1	8.7	672	689	700	25.8	24.6	24.0	510.7	3,457.3	170.3	538.3	0.95	0.95	0.95	50.05
7/22/2015	3:11:00 PM	451.7	455.6	452.6	8.2	8.0	8.5	669	687	697	25.9	24.6	24.0	509.9	3,465.8	169.4	537.3	0.95	0.95	0.95	50.03
7/22/2015	3:12:00 PM	450.4	454.2	451.2	8.3	8.1	8.7	673	692	702	25.8	24.5	24.0	511.7	3,474.4	170.4	539.3	0.95	0.95	0.95	50.00
7/22/2015	3:13:00 PM	449.5	453.4	450.3	8.9	8.7	9.2	675	693	705	25.5	24.3	23.5	512.0	3,482.9	171.5	540.0	0.94	0.95	0.95	49.98
7/22/2015	3:14:00 PM	449.4	453.3	450.2	8.8	8.6	9.1	676	693	706	25.5	24.3	23.5	512.4	3,491.4	171.4	540.4	0.94	0.95	0.95	49.95
7/22/2015	3:15:00 PM	449.3	453.2	450.2	8.9	8.7	9.3	677	694	706	25.4	24.3	23.5	512.8	3,500.0	171.8	540.8	0.94	0.95	0.95	49.94
7/22/2015	3:16:00 PM	450.0	453.9	450.9	8.8	8.7	9.2	676	693	705	25.4	24.3	23.5	513.0	3,508.5	171.8	541.0	0.94	0.95	0.95	49.91
7/22/2015	3:17:00 PM	450.2	454.2	451.2	8.8	8.6	9.1	698	714	728	25.5	24.3	23.5	529.5	3,517.4	176.8	558.3	0.94	0.95	0.95	49.91
7/22/2015	3:18:00 PM	442.3	447.3	443.4	12.1	11.9	12.5	1,196	1,195	1,225	22.5	22.4	21.2	878.8	3,532.0	297.9	927.9	0.94	0.95	0.95	49.91
7/22/2015	3:19:00 PM	442.1	447.1	443.3	12.2	12.0	12.5	1,263	1,261	1,291	22.4	22.4	21.3	927.2	3,547.5	314.2	979.0	0.94	0.95	0.95	49.92
7/22/2015	3:20:00 PM	443.7	448.6	444.8	11.8	11.6	12.1	1,263	1,261	1,291	22.8	22.7	21.7	930.5	3,563.0	314.3	982.1	0.94	0.95	0.95	49.95

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			% ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	3:21:00 PM	450.2	454.1	451.2	8.2	8.0	8.6	667	683	695	25.9	24.7	24.0	505.8	3,571.4	168.7	533.2	0.95	0.95	0.95	49.93
7/22/2015	3:22:00 PM	449.6	453.5	450.7	8.3	8.1	8.6	635	652	663	26.1	24.8	24.0	481.8	3,579.4	161.3	508.1	0.94	0.95	0.95	49.92
7/22/2015	3:23:00 PM	450.0	453.9	450.9	8.2	8.0	8.5	634	652	663	26.1	24.7	24.1	482.0	3,587.5	161.2	508.3	0.94	0.95	0.95	49.92
7/22/2015	3:24:00 PM	449.6	453.7	450.7	8.4	8.2	8.8	634	652	664	25.9	24.6	23.9	481.9	3,595.5	161.2	508.1	0.94	0.95	0.95	49.91
7/22/2015	3:25:00 PM	447.7	451.8	448.8	8.3	8.1	8.6	637	654	667	26.0	24.7	23.9	482.2	3,603.5	160.7	508.3	0.94	0.95	0.95	49.93
7/22/2015	3:26:00 PM	447.2	451.4	448.4	8.4	8.2	8.7	639	655	668	25.8	24.7	23.8	482.8	3,611.6	161.2	509.0	0.94	0.95	0.95	49.96
7/22/2015	3:27:00 PM	446.1	450.2	447.3	8.7	8.4	9.0	642	657	671	25.5	24.4	23.5	483.1	3,619.6	161.5	509.4	0.94	0.95	0.95	49.97
7/22/2015	3:28:00 PM	448.7	452.7	449.9	7.3	7.2	7.6	448	462	470	35.2	30.0	34.3	337.8	3,625.3	116.2	357.7	0.91	0.93	0.90	49.99
7/22/2015	3:29:00 PM	445.9	450.1	447.1	8.7	8.5	9.0	652	663	678	28.2	25.9	26.6	486.9	3,633.4	164.3	514.1	0.93	0.95	0.93	50.01
7/22/2015	3:30:00 PM	440.7	445.7	441.9	12.4	12.1	12.7	1,231	1,226	1,259	22.2	22.2	21.0	900.0	3,648.4	305.2	950.4	0.94	0.95	0.95	50.04
7/22/2015	3:31:00 PM	441.4	446.3	442.6	12.1	11.8	12.4	1,188	1,183	1,215	22.4	22.4	21.2	869.6	3,662.9	294.1	918.0	0.94	0.95	0.95	50.06
7/22/2015	3:32:00 PM	442.0	447.0	443.2	11.9	11.6	12.2	1,199	1,195	1,226	22.6	22.6	21.4	880.0	3,677.5	296.5	928.6	0.94	0.95	0.95	50.06
7/22/2015	3:33:00 PM	441.1	446.1	442.3	12.5	12.2	12.8	1,267	1,263	1,295	22.1	22.2	21.0	927.2	3,693.0	314.3	979.0	0.94	0.95	0.95	50.06
7/22/2015	3:34:00 PM	440.9	445.9	442.0	12.8	12.5	13.1	1,252	1,249	1,283	22.0	21.9	20.7	916.5	3,708.3	311.7	968.0	0.94	0.95	0.95	50.05
7/22/2015	3:35:00 PM	441.2	445.9	442.3	12.7	12.4	13.0	1,189	1,190	1,221	22.1	21.9	20.8	872.2	3,722.8	296.2	921.2	0.94	0.95	0.95	50.06
7/22/2015	3:36:00 PM	442.5	447.2	443.5	12.6	12.3	12.9	1,159	1,161	1,192	22.1	21.9	20.7	853.7	3,737.0	289.7	901.5	0.94	0.95	0.95	50.06
7/22/2015	3:37:00 PM	441.7	446.5	442.6	13.0	12.6	13.3	1,212	1,211	1,244	21.9	21.8	20.6	889.4	3,751.8	302.9	939.6	0.94	0.95	0.95	50.07
7/22/2015	3:38:00 PM	440.7	445.6	441.7	12.9	12.5	13.2	1,200	1,200	1,232	21.9	21.8	20.6	879.2	3,766.5	298.6	928.5	0.94	0.95	0.95	50.07
7/22/2015	3:39:00 PM	439.2	444.2	440.2	12.6	12.3	12.9	1,207	1,207	1,239	21.9	21.8	20.5	882.2	3,781.2	297.2	931.0	0.94	0.95	0.95	50.04
7/22/2015	3:40:00 PM	442.3	446.7	443.3	10.5	10.2	10.8	881	892	915	23.7	23.0	21.9	653.0	3,792.1	217.9	688.4	0.94	0.95	0.95	50.07
7/22/2015	3:41:00 PM	439.5	444.3	440.5	12.2	11.9	12.5	1,121	1,123	1,152	22.4	22.1	20.9	819.1	3,805.7	277.7	865.0	0.94	0.95	0.95	50.06
7/22/2015	3:42:00 PM	442.8	447.2	443.8	10.8	10.5	11.2	894	904	925	23.6	23.0	22.0	660.9	3,816.8	223.3	697.6	0.94	0.95	0.95	50.05
7/22/2015	3:43:00 PM	445.6	449.6	446.4	9.4	9.1	9.8	656	675	689	25.1	23.8	23.0	494.5	3,825.0	166.2	521.7	0.94	0.95	0.95	50.03
7/22/2015	3:44:00 PM	444.6	448.5	445.4	9.6	9.3	9.9	656	676	688	24.9	23.7	23.0	493.1	3,833.2	166.0	520.3	0.94	0.95	0.95	50.01
7/22/2015	3:45:00 PM	443.6	447.4	444.4	9.4	9.1	9.8	659	677	689	24.9	23.8	23.1	493.4	3,841.4	165.8	520.5	0.94	0.95	0.95	49.98
7/22/2015	3:46:00 PM	442.3	446.2	443.3	9.4	9.1	9.8	662	680	692	24.9	23.8	23.0	494.3	3,849.7	166.1	521.5	0.94	0.95	0.95	49.98
7/22/2015	3:47:00 PM	442.8	446.8	443.9	9.5	9.2	9.8	661	678	691	24.9	23.8	22.9	494.0	3,857.9	166.1	521.2	0.94	0.95	0.95	49.97
7/22/2015	3:48:00 PM	442.6	446.5	443.6	9.3	9.0	9.6	645	663	674	25.0	23.9	23.1	482.0	3,865.9	162.0	508.5	0.94	0.95	0.95	49.97
7/22/2015	3:49:00 PM	443.0	447.0	444.1	8.7	8.5	9.1	576	593	602	25.8	24.3	23.9	430.5	3,873.1	145.5	454.4	0.94	0.95	0.95	49.99
7/22/2015	3:50:00 PM	442.3	446.2	443.2	9.3	9.1	9.7	658	676	688	24.9	23.8	23.0	491.5	3,881.3	164.9	518.4	0.94	0.95	0.95	50.03

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	3:51:00 PM	436.9	441.2	438.0	11.4	11.1	11.8	968	974	997	23.0	22.4	21.4	704.0	3,893.0	237.8	743.1	0.94	0.95	0.95	50.04
7/22/2015	3:52:00 PM	439.2	443.4	440.2	11.0	10.7	11.3	867	877	897	23.4	22.8	21.8	635.7	3,903.6	214.8	671.0	0.94	0.95	0.95	50.07
7/22/2015	3:53:00 PM	442.8	446.6	443.8	9.9	9.6	10.2	669	685	698	24.6	23.7	22.8	499.0	3,912.0	168.3	526.6	0.94	0.95	0.95	50.09
7/22/2015	3:54:00 PM	443.3	447.2	444.2	9.8	9.5	10.1	668	685	698	24.7	23.7	22.8	499.3	3,920.3	168.3	526.9	0.94	0.95	0.95	50.06
7/22/2015	3:55:00 PM	443.8	447.7	444.8	9.6	9.4	10.0	668	684	697	24.7	23.7	22.9	499.5	3,928.6	168.0	527.1	0.94	0.95	0.95	50.02
7/22/2015	3:56:00 PM	444.5	448.4	445.5	9.6	9.3	9.9	667	683	696	24.7	23.7	22.9	499.8	3,936.9	167.8	527.3	0.94	0.95	0.95	50.03
7/22/2015	3:57:00 PM	443.4	447.2	444.4	9.6	9.3	10.0	670	685	698	24.7	23.7	22.9	500.0	3,945.3	168.1	527.5	0.94	0.95	0.95	50.02
7/22/2015	3:58:00 PM	442.6	446.5	443.5	9.5	9.2	9.9	671	687	699	24.7	23.7	22.9	499.9	3,953.6	167.9	527.4	0.94	0.95	0.95	50.01
7/22/2015	3:59:00 PM	443.1	447.0	444.0	9.6	9.3	10.0	670	686	698	24.7	23.7	22.9	500.1	3,961.9	168.0	527.6	0.94	0.95	0.95	50.02
7/22/2015	4:00:00 PM	443.4	447.2	444.3	9.6	9.3	9.9	670	686	697	24.7	23.7	22.9	500.1	3,970.3	168.0	527.6	0.94	0.95	0.95	50.04
7/22/2015	4:01:00 PM	440.8	444.9	441.7	10.9	10.6	11.3	859	868	888	23.3	22.8	21.8	632.9	3,980.8	212.9	667.8	0.94	0.95	0.95	50.05
7/22/2015	4:02:00 PM	436.8	441.3	437.9	12.6	12.3	12.9	1,107	1,109	1,136	21.7	21.6	20.5	804.6	3,994.2	271.6	849.2	0.94	0.95	0.95	50.07
7/22/2015	4:03:00 PM	437.3	441.9	438.4	13.0	12.7	13.3	1,169	1,169	1,197	21.4	21.3	20.3	849.5	4,008.4	287.2	896.7	0.94	0.95	0.95	50.06
7/22/2015	4:04:00 PM	439.1	443.6	440.1	13.0	12.7	13.4	1,199	1,200	1,228	21.4	21.4	20.4	875.1	4,023.0	296.2	923.9	0.94	0.95	0.95	50.07
7/22/2015	4:05:00 PM	440.6	445.0	441.6	12.1	11.8	12.4	1,081	1,085	1,109	22.5	22.1	21.2	791.3	4,036.2	268.4	835.6	0.94	0.95	0.95	50.07
7/22/2015	4:06:00 PM	446.1	449.9	447.2	9.3	9.0	9.6	683	696	709	24.9	24.0	23.2	511.7	4,044.7	171.6	539.8	0.94	0.95	0.95	50.07
7/22/2015	4:07:00 PM	448.5	452.2	449.6	8.1	7.9	8.4	547	559	568	26.9	25.1	25.5	410.6	4,051.5	139.7	433.8	0.94	0.95	0.94	50.03
7/22/2015	4:08:00 PM	452.9	456.4	454.2	5.1	5.1	5.4	147	159	155	32.1	27.5	31.4	113.6	4,053.4	41.9	121.1	0.93	0.95	0.93	50.03
7/22/2015	4:09:00 PM	451.4	454.7	452.5	5.2	5.2	5.5	147	159	154	31.8	27.6	31.4	112.7	4,055.3	41.7	120.2	0.94	0.95	0.93	50.02
7/22/2015	4:10:00 PM	449.2	452.4	449.9	6.9	6.8	7.2	384	397	399	28.7	26.2	28.0	288.9	4,060.1	99.5	305.6	0.94	0.95	0.94	49.98
7/22/2015	4:11:00 PM	445.3	448.7	445.9	9.0	8.7	9.3	651	666	678	25.2	24.3	23.5	487.8	4,068.2	163.6	514.5	0.94	0.95	0.95	49.93
7/22/2015	4:12:00 PM	445.4	448.9	446.1	8.9	8.6	9.2	645	660	672	25.3	24.3	23.6	483.6	4,076.3	162.1	510.0	0.94	0.95	0.95	49.91
7/22/2015	4:13:00 PM	445.7	449.2	446.4	8.9	8.6	9.2	649	664	676	25.3	24.4	23.6	487.0	4,084.4	162.7	513.5	0.95	0.95	0.95	49.91
7/22/2015	4:14:00 PM	445.9	449.4	446.5	9.1	8.9	9.5	685	699	712	25.0	24.2	23.3	513.4	4,093.0	171.4	541.3	0.95	0.95	0.95	49.92
7/22/2015	4:15:00 PM	444.8	448.3	445.4	9.6	9.2	9.8	738	751	767	24.6	23.8	23.0	551.1	4,102.2	184.4	581.2	0.94	0.95	0.95	49.95
7/22/2015	4:16:00 PM	445.0	448.5	445.6	9.3	9.1	9.7	729	744	757	24.9	24.0	23.2	545.2	4,111.3	182.3	574.8	0.95	0.95	0.95	49.98
7/22/2015	4:17:00 PM	445.9	449.3	446.4	9.1	8.9	9.5	716	732	743	25.0	24.1	23.4	536.6	4,120.2	179.1	565.8	0.95	0.95	0.95	50.04
7/22/2015	4:18:00 PM	448.5	451.7	449.0	8.4	8.1	8.7	635	655	660	25.9	24.5	24.3	480.1	4,128.2	160.3	506.2	0.95	0.95	0.95	50.05
7/22/2015	4:19:00 PM	449.4	452.5	450.0	7.6	7.4	8.0	557	579	581	26.6	24.8	25.0	423.6	4,135.3	141.8	446.8	0.95	0.95	0.95	50.03
7/22/2015	4:20:00 PM	449.7	452.8	450.3	7.7	7.5	8.1	555	577	580	26.6	24.9	24.8	422.8	4,142.3	141.7	445.9	0.95	0.95	0.95	50.04

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	4:21:00 PM	450.6	453.8	451.3	7.8	7.6	8.1	583	602	606	26.4	24.9	24.8	443.2	4,149.7	148.2	467.4	0.95	0.95	0.95	50.06
7/22/2015	4:22:00 PM	450.5	453.8	451.2	7.8	7.6	8.2	610	627	633	26.1	24.9	24.7	462.8	4,157.4	154.4	487.9	0.95	0.95	0.95	50.06
7/22/2015	4:23:00 PM	450.5	453.9	451.4	7.6	7.4	7.9	611	626	633	26.2	25.0	24.8	463.0	4,165.1	153.9	488.0	0.95	0.95	0.95	50.05
7/22/2015	4:24:00 PM	448.7	452.2	449.6	7.9	7.7	8.2	614	629	636	26.0	24.8	24.4	463.3	4,172.8	154.3	488.4	0.95	0.95	0.95	50.04
7/22/2015	4:25:00 PM	447.9	451.3	448.6	8.2	8.0	8.5	616	632	638	25.8	24.6	24.3	464.4	4,180.6	154.7	489.5	0.95	0.95	0.95	50.03
7/22/2015	4:26:00 PM	447.2	450.7	448.0	8.4	8.1	8.7	617	634	641	25.6	24.5	24.1	464.8	4,188.3	155.1	490.1	0.95	0.95	0.95	50.00
7/22/2015	4:27:00 PM	447.3	450.7	448.0	8.3	8.0	8.7	617	634	640	25.6	24.5	24.2	464.6	4,196.1	155.0	489.8	0.95	0.95	0.95	49.98
7/22/2015	4:28:00 PM	447.3	450.8	448.0	8.5	8.2	8.8	633	650	657	25.5	24.4	24.0	476.7	4,204.0	159.0	502.6	0.95	0.95	0.95	49.95
7/22/2015	4:29:00 PM	450.6	454.0	451.4	7.3	7.1	7.6	535	550	555	27.7	25.9	27.0	404.7	4,210.8	136.2	427.0	0.94	0.95	0.94	49.92
7/22/2015	4:30:00 PM	449.0	452.5	449.8	7.9	7.7	8.3	663	678	687	25.8	24.8	24.3	500.9	4,219.1	165.6	527.6	0.95	0.95	0.95	49.90
7/22/2015	4:31:00 PM	448.6	452.0	449.4	8.3	8.0	8.7	664	679	688	25.5	24.6	24.1	501.0	4,227.5	166.4	527.9	0.95	0.95	0.95	49.87
7/22/2015	4:32:00 PM	448.0	451.4	448.7	8.3	8.1	8.7	665	681	689	25.6	24.6	24.1	501.2	4,235.8	166.7	528.2	0.95	0.95	0.95	49.87
7/22/2015	4:33:00 PM	448.7	452.2	449.5	8.2	8.0	8.5	664	680	688	25.7	24.7	24.2	501.2	4,244.2	167.0	528.3	0.95	0.95	0.95	49.85
7/22/2015	4:34:00 PM	447.3	450.7	448.0	8.4	8.2	8.8	667	683	690	25.5	24.5	24.1	501.2	4,252.5	167.5	528.5	0.95	0.95	0.95	49.86
7/22/2015	4:35:00 PM	447.9	451.4	448.6	8.0	7.7	8.3	666	681	689	25.8	24.8	24.3	501.5	4,260.9	165.7	528.1	0.95	0.95	0.95	49.86
7/22/2015	4:36:00 PM	450.4	453.8	451.0	7.5	7.3	7.8	609	624	630	26.4	25.1	25.1	461.0	4,268.6	153.0	485.8	0.95	0.95	0.95	49.91
7/22/2015	4:37:00 PM	449.5	452.9	450.1	8.2	8.0	8.6	664	680	687	25.7	24.7	24.2	501.9	4,276.9	166.9	529.0	0.95	0.95	0.95	49.94
7/22/2015	4:38:00 PM	450.4	453.9	451.1	8.0	7.8	8.4	663	679	686	25.9	24.8	24.5	502.1	4,285.3	167.0	529.2	0.95	0.95	0.95	49.96
7/22/2015	4:39:00 PM	450.5	453.9	451.1	8.0	7.8	8.4	663	680	686	25.8	24.8	24.4	502.4	4,293.7	167.1	529.5	0.95	0.95	0.95	49.97
7/22/2015	4:40:00 PM	451.3	454.7	452.1	6.8	6.6	7.1	489	503	504	26.9	25.5	25.8	370.9	4,299.9	123.7	391.0	0.95	0.95	0.95	49.98
7/22/2015	4:41:00 PM	451.9	455.2	452.7	6.4	6.3	6.8	441	455	454	27.1	25.7	26.2	335.2	4,305.4	112.0	353.4	0.95	0.95	0.95	49.99
7/22/2015	4:42:00 PM	452.4	455.7	453.2	6.2	6.1	6.6	440	455	453	27.3	25.7	26.3	335.2	4,311.0	111.5	353.3	0.95	0.95	0.95	50.01
7/22/2015	4:43:00 PM	452.9	456.2	453.7	6.0	5.9	6.4	440	454	453	27.4	25.8	26.5	335.2	4,316.6	111.3	353.2	0.95	0.95	0.95	49.99
7/22/2015	4:44:00 PM	451.7	454.9	452.4	6.2	6.0	6.5	441	456	454	27.4	25.7	26.5	335.2	4,322.2	111.5	353.3	0.95	0.95	0.95	49.97
7/22/2015	4:45:00 PM	451.1	454.3	452.0	6.4	6.2	6.7	443	456	454	27.2	25.6	26.4	335.3	4,327.8	111.7	353.5	0.95	0.95	0.95	49.95
7/22/2015	4:46:00 PM	450.5	453.8	451.4	6.6	6.5	7.0	442	457	456	27.1	25.5	26.0	335.4	4,333.4	112.2	353.6	0.95	0.95	0.95	49.94
7/22/2015	4:47:00 PM	450.9	454.4	451.8	6.5	6.3	6.9	442	456	456	27.2	25.6	26.1	335.5	4,339.0	112.1	353.7	0.95	0.95	0.95	49.96
7/22/2015	4:48:00 PM	452.2	455.6	453.1	6.5	6.3	6.8	450	465	465	27.2	25.7	26.1	342.8	4,344.7	114.4	361.4	0.95	0.95	0.95	50.01
7/22/2015	4:49:00 PM	446.8	450.8	447.7	9.9	9.6	10.3	901	909	928	24.0	23.6	22.6	672.7	4,355.9	224.0	709.1	0.95	0.95	0.95	50.02
7/22/2015	4:50:00 PM	445.0	449.0	445.8	10.4	10.1	10.7	918	926	945	23.6	23.3	22.3	682.3	4,367.3	227.6	719.2	0.95	0.95	0.95	50.02

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	4:51:00 PM	443.2	447.2	444.2	10.8	10.5	11.1	923	931	950	23.3	23.0	22.0	683.2	4,378.7	228.4	720.4	0.95	0.95	0.95	49.99
7/22/2015	4:52:00 PM	443.8	447.7	444.7	10.6	10.3	11.0	922	930	949	23.5	23.2	22.1	683.6	4,390.0	228.4	720.8	0.95	0.95	0.95	49.99
7/22/2015	4:53:00 PM	448.3	451.8	449.2	7.8	7.6	8.1	565	576	582	26.2	25.0	25.1	422.9	4,397.1	141.9	446.1	0.95	0.95	0.95	49.98
7/22/2015	4:54:00 PM	451.7	455.0	452.6	6.2	6.1	6.6	365	378	376	27.6	26.0	26.8	277.5	4,401.7	93.6	292.8	0.95	0.95	0.94	49.96
7/22/2015	4:55:00 PM	454.5	457.8	455.5	4.6	4.5	4.9	127	137	132	33.6	29.9	35.6	96.9	4,403.3	37.1	103.9	0.93	0.94	0.91	49.95
7/22/2015	4:56:00 PM	454.6	457.9	455.7	4.1	4.0	4.4	92	101	96	34.8	30.8	37.5	70.6	4,404.5	28.5	76.2	0.93	0.94	0.91	49.94
7/22/2015	4:57:00 PM	453.8	457.1	454.8	3.7	3.7	4.0	92	101	96	34.8	30.8	37.6	70.5	4,405.7	28.4	76.1	0.93	0.94	0.91	49.93
7/22/2015	4:58:00 PM	454.3	457.5	455.3	4.0	4.0	4.3	92	101	96	34.8	30.5	37.3	70.6	4,406.9	28.4	76.2	0.93	0.94	0.91	49.92
7/22/2015	4:59:00 PM	455.3	458.5	456.3	4.4	4.3	4.7	92	101	96	35.0	30.7	37.4	70.9	4,408.0	28.6	76.5	0.93	0.94	0.91	49.94
7/22/2015	5:00:00 PM	455.5	458.7	456.6	4.3	4.3	4.6	93	102	97	35.1	30.8	37.7	71.3	4,409.2	28.9	77.0	0.93	0.94	0.91	49.94
7/22/2015	5:01:00 PM	456.7	459.9	457.8	4.1	4.1	4.4	93	102	97	35.4	30.9	37.6	71.7	4,410.4	29.1	77.4	0.93	0.94	0.91	49.94
7/22/2015	5:02:00 PM	456.5	459.6	457.5	4.1	4.0	4.4	89	98	93	36.5	32.2	39.6	68.3	4,411.6	28.2	74.0	0.92	0.94	0.90	49.98
7/22/2015	5:03:00 PM	456.3	459.4	457.3	4.2	4.2	4.6	60	69	65	49.6	42.0	57.7	45.2	4,412.3	21.5	51.3	0.87	0.90	0.80	49.98
7/22/2015	5:04:00 PM	452.6	455.9	453.7	5.7	5.6	6.1	271	284	281	28.8	26.5	28.2	207.1	4,415.8	71.5	219.1	0.94	0.95	0.94	50.00
7/22/2015	5:05:00 PM	451.8	455.2	452.9	6.2	6.1	6.6	327	340	339	28.0	26.1	27.1	249.4	4,419.9	85.0	263.5	0.94	0.95	0.94	50.00
7/22/2015	5:06:00 PM	452.5	455.7	453.5	6.0	5.9	6.3	327	340	338	28.1	26.3	27.2	249.6	4,424.1	84.8	263.6	0.95	0.95	0.94	50.03
7/22/2015	5:07:00 PM	451.9	455.3	452.9	6.7	6.5	7.1	415	429	430	27.3	25.7	26.3	316.1	4,429.4	106.4	333.6	0.95	0.95	0.94	50.06
7/22/2015	5:08:00 PM	449.6	453.1	450.5	8.8	8.5	9.1	651	664	676	25.2	24.4	23.6	492.1	4,437.6	164.2	518.8	0.95	0.95	0.95	50.06
7/22/2015	5:09:00 PM	450.0	453.5	450.9	8.8	8.5	9.2	652	666	678	25.2	24.4	23.6	493.7	4,445.8	164.8	520.5	0.95	0.95	0.95	50.08
7/22/2015	5:10:00 PM	449.9	453.4	450.9	8.8	8.6	9.2	654	669	680	25.2	24.3	23.6	495.3	4,454.0	165.4	522.2	0.95	0.95	0.95	50.07
7/22/2015	5:11:00 PM	450.7	454.3	451.7	8.9	8.6	9.3	656	672	682	25.1	24.3	23.6	497.8	4,462.3	166.3	524.9	0.95	0.95	0.95	50.08
7/22/2015	5:12:00 PM	449.9	453.5	450.9	9.0	8.7	9.3	682	696	708	25.1	24.2	23.5	515.7	4,470.9	172.2	543.7	0.95	0.95	0.95	50.08
7/22/2015	5:13:00 PM	448.3	452.0	449.2	9.4	9.1	9.8	744	759	771	24.7	24.0	23.2	560.5	4,480.3	187.0	590.9	0.95	0.95	0.95	50.08
7/22/2015	5:14:00 PM	447.6	451.2	448.5	9.6	9.3	10.0	748	763	775	24.6	23.9	23.1	562.3	4,489.6	188.1	593.0	0.95	0.95	0.95	50.04
7/22/2015	5:15:00 PM	448.0	451.6	448.9	9.5	9.3	9.9	718	733	745	24.7	23.9	23.1	540.7	4,498.7	181.1	570.2	0.95	0.95	0.95	50.02
7/22/2015	5:16:00 PM	449.3	452.7	450.2	8.5	8.2	8.8	603	619	626	25.6	24.6	24.1	456.2	4,506.3	152.8	481.1	0.95	0.95	0.95	50.03
7/22/2015	5:17:00 PM	448.8	452.3	449.7	8.5	8.2	8.9	606	622	629	25.6	24.5	24.1	457.8	4,513.9	153.2	482.8	0.95	0.95	0.95	50.01
7/22/2015	5:18:00 PM	447.7	451.3	448.5	9.0	8.8	9.4	703	718	728	24.9	24.1	23.5	528.8	4,522.7	176.4	557.4	0.95	0.95	0.95	49.99
7/22/2015	5:19:00 PM	446.6	450.3	447.4	9.3	9.0	9.7	757	770	784	24.7	24.0	23.2	567.2	4,532.2	189.1	598.0	0.95	0.95	0.95	49.98
7/22/2015	5:20:00 PM	446.3	450.0	447.2	9.1	8.9	9.5	755	768	782	24.8	24.1	23.2	565.7	4,541.6	188.3	596.2	0.95	0.95	0.95	49.99

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	5:21:00 PM	447.2	450.9	448.1	9.0	8.8	9.4	751	765	779	24.9	24.2	23.3	564.4	4,551.0	187.7	594.8	0.95	0.95	0.95	50.01
7/22/2015	5:22:00 PM	448.9	452.5	449.8	8.5	8.3	8.9	696	711	723	25.3	24.4	23.8	525.5	4,559.8	174.6	553.8	0.95	0.95	0.95	50.03
7/22/2015	5:23:00 PM	449.9	453.3	450.7	8.1	7.9	8.5	653	670	679	25.8	24.6	24.1	495.2	4,568.0	164.3	521.7	0.95	0.95	0.95	50.05
7/22/2015	5:24:00 PM	448.8	452.3	449.6	8.6	8.4	9.0	716	732	744	25.3	24.4	23.6	541.0	4,577.0	179.6	570.1	0.95	0.95	0.95	50.05
7/22/2015	5:25:00 PM	448.6	452.2	449.5	8.7	8.5	9.1	718	734	746	25.2	24.3	23.5	542.1	4,586.1	180.0	571.3	0.95	0.95	0.95	50.05
7/22/2015	5:26:00 PM	448.6	452.2	449.5	8.6	8.4	9.0	685	702	712	25.4	24.4	23.7	517.9	4,594.7	172.5	545.9	0.95	0.95	0.95	50.02
7/22/2015	5:27:00 PM	447.8	451.4	448.6	9.1	8.8	9.5	721	736	748	25.0	24.1	23.4	542.8	4,603.7	181.0	572.2	0.95	0.95	0.95	50.02
7/22/2015	5:28:00 PM	450.5	454.0	451.6	7.2	7.0	7.6	482	497	500	26.8	25.3	25.4	366.2	4,609.8	122.8	386.2	0.95	0.95	0.95	50.01
7/22/2015	5:29:00 PM	446.8	450.7	447.7	9.3	9.1	9.7	773	784	799	24.9	24.0	23.4	577.6	4,619.5	193.5	609.2	0.95	0.95	0.95	50.02
7/22/2015	5:30:00 PM	443.8	448.1	444.8	11.5	11.2	11.9	1,080	1,084	1,109	22.9	22.7	21.5	797.9	4,632.8	268.9	842.0	0.94	0.95	0.95	50.04
7/22/2015	5:31:00 PM	449.5	453.0	450.4	8.6	8.4	9.0	651	668	679	25.4	24.4	23.7	493.4	4,641.0	164.8	520.2	0.95	0.95	0.95	50.04
7/22/2015	5:32:00 PM	450.1	453.4	450.9	8.2	7.9	8.6	627	646	655	25.9	24.6	24.1	476.7	4,648.9	158.9	502.5	0.95	0.95	0.95	50.04
7/22/2015	5:33:00 PM	445.6	449.8	446.5	11.0	10.7	11.3	1,012	1,016	1,043	23.1	23.0	21.7	752.7	4,661.5	251.3	793.6	0.95	0.95	0.95	50.01
7/22/2015	5:34:00 PM	445.5	449.8	446.4	11.1	10.8	11.4	1,020	1,023	1,050	23.0	22.9	21.6	757.6	4,674.1	253.1	798.8	0.95	0.95	0.95	50.02
7/22/2015	5:35:00 PM	445.0	449.2	446.0	11.3	11.0	11.7	1,023	1,024	1,052	22.8	22.8	21.4	758.1	4,686.7	254.0	799.5	0.95	0.95	0.95	50.01
7/22/2015	5:36:00 PM	445.1	449.3	446.0	11.2	10.9	11.6	1,023	1,025	1,053	22.9	22.9	21.6	758.9	4,699.4	253.9	800.3	0.95	0.95	0.95	49.99
7/22/2015	5:37:00 PM	445.7	449.9	446.6	11.2	11.0	11.6	1,024	1,027	1,054	22.9	22.8	21.5	760.7	4,712.1	254.5	802.1	0.95	0.95	0.95	50.00
7/22/2015	5:38:00 PM	446.2	450.2	446.9	11.0	10.7	11.4	1,025	1,030	1,055	23.1	22.9	21.7	762.9	4,724.8	254.6	804.3	0.95	0.95	0.95	50.01
7/22/2015	5:39:00 PM	445.1	449.1	445.9	11.0	10.6	11.3	1,031	1,036	1,061	23.1	23.0	21.8	765.8	4,737.5	255.5	807.3	0.95	0.95	0.95	49.99
7/22/2015	5:40:00 PM	443.7	447.9	444.4	11.8	11.4	12.2	1,136	1,139	1,166	22.5	22.5	21.3	839.3	4,751.5	281.6	885.3	0.95	0.95	0.95	49.98
7/22/2015	5:41:00 PM	445.3	449.5	446.0	11.6	11.3	12.0	1,126	1,130	1,156	22.8	22.7	21.5	835.0	4,765.5	280.2	880.8	0.95	0.95	0.95	49.98
7/22/2015	5:42:00 PM	445.7	449.8	446.3	11.6	11.3	12.0	1,134	1,137	1,164	22.7	22.7	21.5	841.4	4,779.5	282.2	887.5	0.95	0.95	0.95	49.99
7/22/2015	5:43:00 PM	447.4	451.7	448.1	11.6	11.3	12.0	1,129	1,133	1,160	22.8	22.7	21.5	841.3	4,793.5	282.3	887.4	0.95	0.95	0.95	50.02
7/22/2015	5:44:00 PM	448.1	452.3	448.9	11.6	11.3	12.0	1,127	1,130	1,157	22.8	22.7	21.6	840.5	4,807.5	282.5	886.7	0.95	0.95	0.95	50.04
7/22/2015	5:45:00 PM	449.5	453.6	450.2	11.1	10.8	11.5	1,050	1,056	1,080	23.2	23.0	21.9	786.8	4,820.6	263.5	829.8	0.95	0.95	0.95	50.03
7/22/2015	5:46:00 PM	453.6	457.1	454.2	9.2	9.0	9.6	773	786	800	24.9	24.2	23.3	588.1	4,830.4	195.8	619.8	0.95	0.95	0.95	50.00
7/22/2015	5:47:00 PM	454.0	457.6	454.8	8.6	8.3	9.0	738	753	764	25.2	24.5	23.8	563.2	4,839.8	186.4	593.3	0.95	0.95	0.95	49.96
7/22/2015	5:48:00 PM	452.8	456.4	453.6	8.8	8.5	9.1	739	752	766	25.1	24.5	23.6	562.1	4,849.2	186.7	592.3	0.95	0.95	0.95	49.94
7/22/2015	5:49:00 PM	452.4	455.9	453.2	8.8	8.5	9.2	742	754	768	25.0	24.4	23.5	563.1	4,858.6	187.1	593.4	0.95	0.95	0.95	49.95
7/22/2015	5:50:00 PM	451.8	455.4	452.6	8.7	8.4	9.1	745	759	771	25.1	24.4	23.6	565.1	4,868.0	187.5	595.4	0.95	0.95	0.95	49.94

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	5:51:00 PM	451.2	454.7	452.0	8.0	7.7	8.3	625	641	649	25.9	24.8	24.4	475.0	4,875.9	157.9	500.6	0.95	0.95	0.95	49.94
7/22/2015	5:52:00 PM	450.2	453.8	451.0	8.0	7.7	8.4	600	617	623	25.9	24.8	24.5	455.3	4,883.5	151.7	480.0	0.95	0.95	0.95	49.95
7/22/2015	5:53:00 PM	450.0	453.6	450.8	8.4	8.1	8.8	649	665	673	25.5	24.5	24.1	491.3	4,891.7	163.4	517.8	0.95	0.95	0.95	49.94
7/22/2015	5:54:00 PM	449.9	453.5	450.6	9.0	8.7	9.4	727	743	753	24.9	24.1	23.5	549.8	4,900.8	182.8	579.5	0.95	0.95	0.95	49.90
7/22/2015	5:55:00 PM	450.4	454.0	451.1	8.9	8.7	9.4	711	728	737	25.0	24.2	23.6	538.5	4,909.8	179.3	567.6	0.95	0.95	0.95	49.88
7/22/2015	5:56:00 PM	450.3	453.8	450.9	9.0	8.8	9.5	721	738	748	24.9	24.1	23.5	546.1	4,918.9	181.9	575.6	0.95	0.95	0.95	49.87
7/22/2015	5:57:00 PM	450.8	454.4	451.4	9.0	8.7	9.4	710	727	736	25.0	24.2	23.6	538.2	4,927.9	179.4	567.3	0.95	0.95	0.95	49.87
7/22/2015	5:58:00 PM	452.5	456.0	453.2	8.6	8.4	9.1	664	680	688	25.5	24.5	24.4	504.5	4,936.3	169.2	532.2	0.94	0.95	0.94	49.88
7/22/2015	5:59:00 PM	461.3	464.3	462.2	3.8	3.7	4.2	115	126	119	34.0	29.8	36.2	89.4	4,937.8	35.1	96.1	0.93	0.95	0.91	49.90
7/22/2015	6:00:00 PM	461.7	464.7	462.5	3.6	3.6	4.1	96	106	100	40.5	36.0	45.0	74.4	4,939.0	30.0	80.8	0.89	0.92	0.86	49.93
7/22/2015	6:01:00 PM	461.6	464.8	462.4	4.4	4.3	4.8	205	220	221	12.1	85.6	98.0	160.2	4,941.7	53.8	171.3	0.38	0.68	0.57	49.92
7/22/2015	6:02:00 PM	456.1	459.5	456.7	7.8	7.6	8.2	672	692	698	26.0	24.8	24.5	517.1	4,950.3	171.2	544.7	0.95	0.95	0.95	49.98
7/22/2015	6:03:00 PM	452.6	456.6	453.4	9.9	9.6	10.2	970	979	999	24.1	23.7	22.8	733.7	4,962.5	244.3	773.4	0.95	0.95	0.95	50.03
7/22/2015	6:04:00 PM	460.6	463.7	461.4	5.3	5.2	5.7	427	443	441	28.0	26.1	27.0	331.9	4,968.1	109.4	349.5	0.95	0.95	0.95	50.05
7/22/2015	6:05:00 PM	458.2	461.9	459.0	8.5	8.3	8.9	857	869	885	25.3	24.5	23.8	657.8	4,979.0	217.5	692.9	0.95	0.95	0.95	50.07
7/22/2015	6:06:00 PM	460.2	463.8	460.9	8.8	8.6	9.2	904	914	933	25.0	24.4	23.5	696.3	4,990.6	229.9	733.3	0.95	0.95	0.95	50.09
7/22/2015	6:07:00 PM	464.8	468.0	465.5	6.7	6.5	7.0	610	623	630	27.1	25.6	26.1	474.1	4,998.5	157.4	499.6	0.95	0.95	0.95	50.11
7/22/2015	6:08:00 PM	464.5	467.7	465.0	7.9	7.7	8.3	754	769	779	25.9	24.9	24.5	587.4	5,008.3	194.2	618.7	0.95	0.95	0.95	50.11
7/22/2015	6:09:00 PM	465.3	468.6	465.7	8.0	7.8	8.4	770	788	797	25.9	24.8	24.4	602.4	5,018.4	198.7	634.4	0.95	0.95	0.95	50.07
7/22/2015	6:10:00 PM	468.9	472.1	469.4	5.1	5.1	5.6	410	425	422	28.6	26.1	28.6	322.3	5,023.8	108.5	340.2	0.95	0.95	0.94	50.02
7/22/2015	6:11:00 PM	467.2	469.9	466.9	6.3	6.3	6.9	556	583	578	27.5	25.1	26.3	440.4	5,031.1	145.7	463.9	0.95	0.96	0.94	49.98
7/22/2015	6:12:00 PM	465.6	468.2	464.9	6.5	6.4	7.0	586	618	610	27.4	24.9	26.1	463.7	5,038.8	152.9	488.3	0.95	0.96	0.94	49.95
7/22/2015	6:13:00 PM	462.5	465.8	461.6	6.6	6.5	7.1	626	658	653	27.3	24.9	25.8	492.2	5,047.0	161.7	518.1	0.95	0.96	0.95	49.92
7/22/2015	6:14:00 PM	462.8	466.5	462.2	5.7	5.6	6.2	501	530	521	28.1	25.2	27.1	394.8	5,053.6	130.0	415.7	0.95	0.96	0.94	49.90
7/22/2015	6:15:00 PM	462.1	465.8	461.4	6.0	6.0	6.5	500	530	520	27.9	25.0	26.9	393.4	5,060.2	130.2	414.5	0.95	0.96	0.94	49.89
7/22/2015	6:16:00 PM	457.6	461.7	456.7	8.3	8.1	8.8	795	825	830	25.9	24.1	24.2	615.8	5,070.4	203.6	648.7	0.95	0.95	0.95	49.92
7/22/2015	6:17:00 PM	459.3	463.2	458.4	6.7	6.6	7.2	602	631	626	27.2	24.8	26.1	468.5	5,078.2	155.0	493.5	0.95	0.96	0.94	49.91
7/22/2015	6:18:00 PM	461.2	464.8	460.3	5.7	5.6	6.2	476	506	494	28.2	25.0	27.3	373.8	5,084.5	123.6	393.8	0.95	0.96	0.94	49.91
7/22/2015	6:19:00 PM	460.3	463.9	459.2	7.0	6.8	7.5	630	665	659	27.0	24.6	25.6	494.3	5,092.7	162.7	520.5	0.95	0.96	0.94	49.91
7/22/2015	6:20:00 PM	460.1	463.8	458.9	7.1	6.9	7.6	625	661	654	27.0	24.5	25.6	490.6	5,100.9	161.8	516.7	0.95	0.96	0.94	49.91

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	6:21:00 PM	458.3	462.2	457.2	7.6	7.4	8.1	625	661	656	26.7	24.2	25.2	488.8	5,109.0	162.2	515.1	0.95	0.96	0.94	49.97
7/22/2015	6:22:00 PM	458.3	462.3	457.1	7.7	7.6	8.3	625	662	656	26.7	24.1	25.1	489.0	5,117.2	162.4	515.3	0.95	0.96	0.94	49.98
7/22/2015	6:23:00 PM	459.4	463.1	458.1	7.6	7.4	8.1	599	639	632	27.1	24.1	25.3	471.5	5,125.0	157.0	497.0	0.95	0.96	0.94	49.97
7/22/2015	6:24:00 PM	459.4	463.1	458.1	7.4	7.2	7.9	588	629	622	27.3	24.1	25.5	463.5	5,132.8	154.4	488.6	0.95	0.96	0.94	49.95
7/22/2015	6:25:00 PM	460.0	463.6	458.6	7.0	6.9	7.5	558	599	590	27.9	24.3	26.5	440.3	5,140.1	146.6	464.4	0.94	0.96	0.94	49.95
7/22/2015	6:26:00 PM	467.1	471.3	466.1	2.7	2.7	2.9	3	14	15	5.3	124.2	152.1	4.3	5,140.2	1.3	8.6	0.05	0.49	0.29	49.96
7/22/2015	6:27:00 PM	463.8	467.5	462.8	4.5	4.5	5.0	285	314	298	23.9	48.5	57.3	226.5	5,143.9	76.0	240.3	0.73	0.85	0.79	49.97
7/22/2015	6:28:00 PM	461.7	465.3	460.7	5.5	5.4	6.1	408	444	423	28.8	24.4	28.6	322.9	5,149.3	108.3	340.7	0.95	0.96	0.94	49.95
7/22/2015	6:29:00 PM	461.6	465.2	460.5	5.8	5.8	6.4	445	483	463	28.7	24.3	28.1	351.9	5,155.2	118.0	371.3	0.95	0.96	0.94	49.92
7/22/2015	6:30:00 PM	458.8	462.2	457.2	7.8	7.6	8.3	672	710	708	26.5	24.1	24.7	526.5	5,164.0	173.5	554.4	0.95	0.96	0.95	49.90
7/22/2015	6:31:00 PM	459.0	462.6	457.6	7.9	7.7	8.4	687	725	722	26.5	24.0	24.8	538.1	5,172.9	177.2	566.6	0.95	0.96	0.95	49.88
7/22/2015	6:32:00 PM	459.3	462.8	458.0	7.8	7.6	8.3	690	726	722	26.4	24.1	24.9	539.6	5,181.9	177.5	568.1	0.95	0.96	0.95	49.88
7/22/2015	6:33:00 PM	459.0	462.7	457.8	7.9	7.7	8.4	688	723	722	26.4	24.1	24.7	537.8	5,190.9	177.5	566.4	0.95	0.96	0.95	49.87
7/22/2015	6:34:00 PM	458.2	462.1	457.2	8.1	7.9	8.6	691	728	729	26.2	24.0	24.4	540.7	5,199.9	179.1	569.6	0.95	0.96	0.95	49.92
7/22/2015	6:35:00 PM	459.0	463.3	458.2	8.4	8.1	8.8	733	770	775	26.2	24.1	24.0	574.8	5,209.5	190.0	605.5	0.95	0.96	0.95	49.93
7/22/2015	6:36:00 PM	460.3	464.4	459.6	8.4	8.1	8.9	751	786	792	26.0	24.1	24.0	589.3	5,219.3	194.4	620.6	0.95	0.96	0.95	49.98
7/22/2015	6:37:00 PM	461.2	464.1	460.9	8.3	8.0	8.8	756	784	786	25.7	24.3	24.2	589.6	5,229.1	193.8	620.7	0.95	0.96	0.95	50.05
7/22/2015	6:38:00 PM	461.2	464.1	460.4	8.0	7.7	8.5	756	787	786	25.9	24.2	24.5	590.6	5,239.0	193.1	621.5	0.95	0.96	0.95	50.04
7/22/2015	6:39:00 PM	462.0	465.0	461.2	8.1	7.8	8.6	774	805	806	25.9	24.3	24.4	605.5	5,249.1	198.2	637.2	0.95	0.96	0.95	50.02
7/22/2015	6:40:00 PM	456.7	460.2	456.0	10.0	9.7	10.5	1,022	1,042	1,061	24.1	23.5	22.6	784.2	5,262.1	259.3	826.0	0.95	0.95	0.95	49.99
7/22/2015	6:41:00 PM	458.4	461.6	457.9	9.0	8.7	9.5	837	863	871	25.1	23.9	23.5	647.5	5,272.9	213.7	681.9	0.95	0.95	0.95	49.96
7/22/2015	6:42:00 PM	457.6	460.8	457.1	8.6	8.3	9.2	770	798	803	25.3	24.0	23.7	596.5	5,282.9	196.7	628.2	0.95	0.95	0.95	49.91
7/22/2015	6:43:00 PM	455.9	459.4	455.5	8.7	8.4	9.3	774	803	809	25.3	23.9	23.5	598.0	5,292.8	197.3	629.7	0.95	0.95	0.95	49.87
7/22/2015	6:44:00 PM	455.9	459.3	455.3	8.7	8.4	9.3	777	806	811	25.3	23.9	23.6	599.9	5,302.8	198.0	631.8	0.95	0.95	0.95	49.89
7/22/2015	6:45:00 PM	455.0	458.7	454.2	9.1	8.8	9.7	884	910	921	24.9	23.7	23.2	678.0	5,314.1	224.1	714.1	0.95	0.95	0.95	49.90
7/22/2015	6:46:00 PM	451.4	455.7	450.4	11.0	10.6	11.5	1,153	1,170	1,195	23.3	22.8	21.7	872.3	5,328.7	290.5	919.5	0.94	0.95	0.95	49.91
7/22/2015	6:47:00 PM	453.6	457.3	452.6	9.6	9.3	10.1	912	939	948	24.8	23.3	23.2	695.6	5,340.3	231.7	733.3	0.95	0.95	0.95	49.89
7/22/2015	6:48:00 PM	453.1	456.5	451.8	9.2	9.0	9.8	875	904	909	25.0	23.4	23.6	666.0	5,351.4	222.4	702.2	0.95	0.95	0.95	49.91
7/22/2015	6:49:00 PM	455.4	458.5	454.3	7.4	7.2	8.1	605	644	634	26.9	24.1	25.3	470.7	5,359.2	156.5	496.1	0.95	0.96	0.94	49.91
7/22/2015	6:50:00 PM	452.7	456.0	451.3	8.8	8.5	9.4	799	832	836	25.4	23.6	23.8	612.0	5,369.4	203.4	645.0	0.95	0.95	0.95	49.92

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	6:51:00 PM	456.3	459.5	455.1	7.2	7.1	7.8	598	628	617	26.9	24.1	26.4	459.6	5,377.1	154.1	484.9	0.95	0.96	0.94	49.95
7/22/2015	6:52:00 PM	458.5	461.4	457.4	6.3	6.3	7.0	472	510	486	27.9	24.2	27.7	368.7	5,383.2	124.2	389.2	0.95	0.96	0.94	49.97
7/22/2015	6:53:00 PM	459.3	462.2	458.2	6.4	6.3	7.1	475	512	490	27.8	24.2	27.5	371.6	5,389.4	125.1	392.2	0.95	0.96	0.94	50.02
7/22/2015	6:54:00 PM	451.9	455.7	450.2	10.8	10.4	11.3	1,078	1,099	1,121	23.6	22.9	21.9	817.4	5,403.0	272.9	861.8	0.94	0.95	0.95	50.00
7/22/2015	6:55:00 PM	450.7	454.5	449.1	11.1	10.7	11.6	1,123	1,143	1,167	23.2	22.7	21.6	849.1	5,417.2	283.4	895.2	0.95	0.95	0.95	50.01
7/22/2015	6:56:00 PM	450.8	454.6	448.9	11.1	10.7	11.6	1,122	1,145	1,167	23.3	22.7	21.7	849.4	5,431.3	283.7	895.5	0.94	0.95	0.95	50.00
7/22/2015	6:57:00 PM	450.8	454.4	448.8	10.8	10.5	11.4	1,096	1,123	1,141	23.5	22.7	21.9	830.8	5,445.2	277.2	875.8	0.94	0.95	0.95	50.00
7/22/2015	6:58:00 PM	450.1	453.5	448.1	10.9	10.5	11.5	1,079	1,106	1,122	23.5	22.7	21.9	816.2	5,458.8	272.5	860.6	0.95	0.95	0.95	49.95
7/22/2015	6:59:00 PM	449.5	452.9	447.3	11.0	10.6	11.6	1,086	1,112	1,129	23.5	22.7	21.9	819.7	5,472.4	274.0	864.4	0.94	0.95	0.95	49.92
7/22/2015	7:00:00 PM	448.6	452.2	446.4	11.3	11.0	11.9	1,128	1,151	1,172	23.1	22.5	21.5	848.5	5,486.6	284.3	895.0	0.94	0.95	0.95	49.92
7/22/2015	7:01:00 PM	449.0	452.9	447.0	11.2	10.8	11.8	1,125	1,146	1,168	23.2	22.5	21.5	847.2	5,500.7	282.9	893.2	0.94	0.95	0.95	49.92
7/22/2015	7:02:00 PM	449.2	453.2	447.4	11.1	10.7	11.6	1,124	1,145	1,168	23.2	22.6	21.6	847.3	5,514.8	282.6	893.2	0.94	0.95	0.95	49.92
7/22/2015	7:03:00 PM	448.6	452.6	446.8	11.2	10.8	11.7	1,127	1,147	1,170	23.1	22.6	21.5	847.7	5,529.0	283.0	893.7	0.94	0.95	0.95	49.92
7/22/2015	7:04:00 PM	448.2	452.2	446.6	11.1	10.7	11.6	1,128	1,147	1,170	23.1	22.6	21.6	847.5	5,543.1	282.7	893.4	0.95	0.95	0.95	49.93
7/22/2015	7:05:00 PM	447.5	451.3	445.7	10.8	10.5	11.4	1,130	1,150	1,171	23.4	22.9	22.0	847.4	5,557.2	282.2	893.2	0.95	0.95	0.95	49.96
7/22/2015	7:06:00 PM	446.2	449.9	444.4	11.0	10.6	11.5	1,134	1,155	1,174	23.2	22.7	21.8	848.0	5,571.3	282.5	893.8	0.95	0.95	0.95	49.97
7/22/2015	7:07:00 PM	445.7	449.2	443.7	11.1	10.7	11.6	1,136	1,157	1,176	23.2	22.6	21.7	848.0	5,585.5	282.7	893.9	0.95	0.95	0.95	49.96
7/22/2015	7:08:00 PM	445.8	449.3	443.7	10.9	10.6	11.5	1,135	1,157	1,175	23.2	22.7	21.8	847.9	5,599.6	282.5	893.8	0.95	0.95	0.95	49.94
7/22/2015	7:09:00 PM	447.1	450.7	444.8	10.8	10.4	11.3	1,131	1,154	1,172	23.4	22.7	21.9	848.0	5,613.7	281.8	893.6	0.95	0.95	0.95	49.92
7/22/2015	7:10:00 PM	447.2	450.7	444.8	10.8	10.5	11.4	1,131	1,154	1,172	23.4	22.7	21.9	847.8	5,627.9	281.9	893.5	0.95	0.95	0.95	49.87
7/22/2015	7:11:00 PM	446.6	450.0	444.0	10.9	10.5	11.4	1,133	1,156	1,173	23.4	22.7	21.9	847.7	5,642.0	282.1	893.5	0.95	0.95	0.95	49.84
7/22/2015	7:12:00 PM	449.9	453.7	448.0	9.4	9.1	9.9	900	930	937	24.9	23.4	23.3	682.3	5,653.4	226.3	718.9	0.95	0.95	0.95	49.81
7/22/2015	7:13:00 PM	454.1	457.4	452.3	7.2	7.0	7.8	592	638	623	27.3	24.0	25.8	461.9	5,661.1	153.3	486.8	0.95	0.96	0.94	49.82
7/22/2015	7:14:00 PM	454.2	457.4	452.3	7.1	6.9	7.7	591	637	623	27.5	24.1	25.9	461.4	5,668.8	152.8	486.1	0.95	0.96	0.94	49.82
7/22/2015	7:15:00 PM	452.9	456.4	451.1	7.6	7.4	8.2	665	705	696	26.6	24.1	25.1	513.9	5,677.3	169.4	541.2	0.95	0.96	0.94	49.81
7/22/2015	7:16:00 PM	451.9	455.6	450.0	7.9	7.6	8.5	713	751	746	26.2	24.0	24.6	548.6	5,686.5	180.2	577.5	0.95	0.96	0.95	49.83
7/22/2015	7:17:00 PM	452.3	455.9	450.5	8.0	7.8	8.6	716	751	747	26.0	24.0	24.5	550.2	5,695.6	181.3	579.3	0.95	0.96	0.95	49.83
7/22/2015	7:18:00 PM	453.1	456.6	451.3	8.0	7.8	8.6	715	750	745	26.0	23.9	24.6	550.0	5,704.8	180.9	579.0	0.95	0.96	0.95	49.85
7/22/2015	7:19:00 PM	452.8	456.4	451.2	8.0	7.8	8.7	715	750	746	25.9	24.1	24.5	550.0	5,714.0	181.1	579.1	0.95	0.96	0.95	49.84
7/22/2015	7:20:00 PM	452.7	455.9	450.8	8.1	7.9	8.7	716	750	745	25.9	24.0	24.5	549.7	5,723.1	181.1	578.8	0.95	0.96	0.95	49.84

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	7:21:00 PM	452.2	455.4	450.5	8.0	7.7	8.5	717	750	745	25.9	24.1	24.6	549.6	5,732.3	180.6	578.6	0.95	0.96	0.95	49.84
7/22/2015	7:22:00 PM	453.3	456.5	451.5	7.6	7.3	8.1	728	759	755	26.1	24.3	24.9	558.4	5,741.6	182.6	587.5	0.95	0.96	0.95	49.84
7/22/2015	7:23:00 PM	451.2	454.5	449.2	8.7	8.4	9.2	872	901	906	25.2	23.9	23.7	663.9	5,752.7	217.9	698.8	0.95	0.95	0.95	49.83
7/22/2015	7:24:00 PM	453.6	456.9	451.6	8.0	7.8	8.5	870	899	903	25.7	24.3	24.3	666.1	5,763.8	217.1	700.7	0.95	0.96	0.95	49.85
7/22/2015	7:25:00 PM	453.2	456.6	451.0	8.6	8.3	9.1	966	993	1,000	25.2	24.1	23.9	736.3	5,776.0	241.1	774.8	0.95	0.95	0.95	49.83
7/22/2015	7:26:00 PM	449.2	453.2	447.0	10.3	9.9	10.7	1,250	1,268	1,288	23.8	23.3	22.5	938.7	5,791.7	310.3	988.7	0.95	0.95	0.95	49.80
7/22/2015	7:27:00 PM	452.4	455.8	450.2	8.5	8.3	9.1	990	1,016	1,021	25.2	23.9	24.2	750.4	5,804.2	246.8	790.0	0.95	0.95	0.95	49.82
7/22/2015	7:28:00 PM	456.7	459.6	454.6	6.6	6.4	7.1	680	708	700	26.8	24.8	26.3	522.7	5,812.9	171.4	550.1	0.95	0.96	0.94	49.86
7/22/2015	7:29:00 PM	459.6	462.4	457.6	4.6	4.6	5.2	409	433	413	28.5	25.6	29.8	315.3	5,818.2	105.0	332.5	0.95	0.96	0.94	49.87
7/22/2015	7:30:00 PM	460.3	463.1	458.4	3.9	3.9	4.4	324	345	322	29.0	25.9	31.0	249.9	5,822.3	84.0	263.8	0.95	0.96	0.94	49.87
7/22/2015	7:31:00 PM	456.5	459.3	454.3	5.8	5.6	6.3	544	573	557	27.5	25.0	27.7	418.8	5,829.3	137.6	440.9	0.95	0.96	0.94	49.86
7/22/2015	7:32:00 PM	453.0	455.9	450.5	7.9	7.6	8.4	795	831	827	25.8	24.1	24.5	609.9	5,839.5	199.4	641.7	0.95	0.96	0.95	49.89
7/22/2015	7:33:00 PM	453.1	455.9	450.6	8.2	7.9	8.7	803	837	835	25.6	23.9	24.3	615.6	5,849.7	202.0	648.0	0.95	0.96	0.95	49.90
7/22/2015	7:34:00 PM	453.6	456.4	451.1	8.3	8.0	8.9	810	844	842	25.6	23.9	24.2	621.2	5,860.1	204.1	653.9	0.95	0.96	0.95	49.88
7/22/2015	7:35:00 PM	454.4	457.2	451.7	8.2	7.9	8.7	812	848	843	25.7	23.9	24.4	624.1	5,870.5	204.7	656.9	0.95	0.96	0.95	49.86
7/22/2015	7:36:00 PM	455.3	457.9	452.8	7.4	7.2	7.9	746	780	768	26.1	24.1	25.4	572.9	5,880.0	187.3	602.8	0.95	0.96	0.95	49.88
7/22/2015	7:37:00 PM	459.7	462.2	457.6	5.0	4.9	5.6	471	500	473	28.0	24.9	28.9	363.9	5,886.1	119.7	383.2	0.95	0.96	0.94	49.92
7/22/2015	7:38:00 PM	460.3	462.9	458.4	4.8	4.7	5.3	470	500	475	28.1	25.0	28.8	365.1	5,892.2	119.7	384.3	0.95	0.96	0.94	49.95
7/22/2015	7:39:00 PM	461.1	463.8	459.2	4.8	4.7	5.3	469	499	474	28.2	24.9	28.8	364.7	5,898.3	119.8	384.0	0.95	0.96	0.94	49.97
7/22/2015	7:40:00 PM	460.1	462.9	458.2	5.1	5.0	5.7	468	499	475	28.1	24.9	28.5	364.2	5,904.3	120.2	383.6	0.95	0.96	0.94	49.97
7/22/2015	7:41:00 PM	456.6	459.6	454.4	7.1	6.8	7.6	724	758	749	26.3	24.4	25.5	559.5	5,913.7	182.2	588.5	0.95	0.96	0.95	49.98
7/22/2015	7:42:00 PM	454.9	457.9	452.5	7.5	7.2	8.1	780	815	810	25.9	24.2	24.8	601.0	5,923.7	195.7	632.1	0.95	0.96	0.95	49.95
7/22/2015	7:43:00 PM	455.9	458.8	453.4	7.6	7.3	8.2	779	815	808	25.9	24.1	24.9	601.7	5,933.7	196.0	632.9	0.95	0.96	0.95	49.91
7/22/2015	7:44:00 PM	456.3	459.1	453.8	7.6	7.3	8.1	781	816	809	26.0	24.2	24.9	602.9	5,943.7	196.3	634.1	0.95	0.96	0.95	49.88
7/22/2015	7:45:00 PM	456.7	459.2	454.2	7.2	7.0	7.7	782	814	807	26.1	24.4	25.1	603.1	5,953.8	195.6	634.1	0.95	0.96	0.95	49.84
7/22/2015	7:46:00 PM	457.1	459.9	454.8	7.3	7.0	7.8	778	811	805	26.2	24.4	25.1	601.4	5,963.8	195.3	632.3	0.95	0.96	0.95	49.81
7/22/2015	7:47:00 PM	456.9	459.9	454.9	7.2	7.0	7.7	780	812	807	26.2	24.4	25.1	602.5	5,973.9	195.6	633.5	0.95	0.96	0.95	49.80
7/22/2015	7:48:00 PM	456.4	459.4	454.2	7.2	7.0	7.7	780	814	808	26.2	24.4	25.1	602.6	5,983.9	195.5	633.6	0.95	0.96	0.95	49.78
7/22/2015	7:49:00 PM	457.2	460.1	455.0	7.1	6.9	7.6	761	795	787	26.3	24.4	25.3	588.9	5,993.7	191.1	619.2	0.95	0.96	0.95	49.81
7/22/2015	7:50:00 PM	459.3	462.3	457.2	6.4	6.2	6.9	677	712	699	27.1	24.7	26.2	527.1	6,002.5	170.7	554.1	0.95	0.96	0.95	49.84

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/22/2015	7:51:00 PM	460.2	462.9	457.9	6.0	5.9	6.5	633	668	649	27.4	24.7	26.9	493.2	6,010.7	159.5	518.5	0.95	0.96	0.94	49.90
7/22/2015	7:52:00 PM	460.9	463.5	458.5	5.7	5.6	6.3	600	640	618	27.8	24.6	27.4	470.4	6,018.6	152.6	494.6	0.95	0.96	0.94	49.93
7/22/2015	7:53:00 PM	461.1	463.7	458.8	5.7	5.6	6.3	601	639	617	27.7	24.7	27.4	470.7	6,026.4	152.6	494.9	0.95	0.96	0.94	49.96
7/22/2015	7:54:00 PM	460.9	463.5	458.6	5.7	5.6	6.3	601	640	618	27.7	24.7	27.3	470.8	6,034.3	152.5	495.0	0.95	0.96	0.94	49.98
7/22/2015	7:55:00 PM	461.2	463.9	458.9	5.7	5.6	6.2	601	639	618	27.8	24.7	27.3	471.2	6,042.1	152.5	495.4	0.95	0.96	0.94	50.01
7/22/2015	7:56:00 PM	461.7	464.3	459.6	5.9	5.8	6.3	626	659	640	27.5	24.9	27.0	488.5	6,050.3	157.6	513.4	0.95	0.96	0.94	50.03
7/22/2015	7:57:00 PM	461.6	464.1	459.3	6.0	5.8	6.4	642	672	653	27.2	24.8	27.0	499.4	6,058.6	160.8	524.7	0.95	0.96	0.95	50.01
7/22/2015	7:58:00 PM	461.2	463.7	459.0	5.9	5.8	6.4	643	673	654	27.1	24.8	26.9	499.6	6,066.9	160.8	524.9	0.95	0.96	0.95	49.98
7/22/2015	7:59:00 PM	461.8	464.4	459.7	5.9	5.8	6.3	642	672	653	27.2	24.9	27.0	499.6	6,075.2	160.7	524.9	0.95	0.96	0.95	49.93
7/22/2015	8:00:00 PM	463.4	465.9	461.2	5.7	5.7	6.2	635	664	645	27.3	24.9	27.1	495.5	6,083.5	159.0	520.5	0.95	0.96	0.95	49.92
7/22/2015	8:01:00 PM	463.7	466.0	461.5	5.7	5.6	6.1	620	652	630	27.5	24.9	27.4	484.9	6,091.6	155.9	509.5	0.95	0.96	0.94	49.94
7/22/2015	8:02:00 PM	468.4	470.8	466.3	2.7	2.8	3.0	272	290	273	34.0	49.1	62.7	211.7	6,095.1	71.2	225.2	0.77	0.85	0.77	49.95
7/22/2015	8:03:00 PM	469.3	471.9	467.5	2.0	2.1	2.3	195	206	184	31.1	28.5	36.9	149.0	6,097.6	54.0	158.6	0.95	0.95	0.92	49.98
7/22/2015	8:04:00 PM	469.1	471.7	467.4	2.0	2.1	2.3	196	208	185	31.2	28.4	36.5	150.2	6,100.1	54.4	159.8	0.95	0.95	0.92	50.02
7/22/2015	8:05:00 PM	467.7	470.2	465.8	3.7	3.8	4.1	403	425	402	29.4	26.4	31.6	315.2	6,105.3	103.6	331.9	0.95	0.95	0.93	50.04
7/22/2015	8:06:00 PM	461.7	464.4	459.3	7.6	7.3	8.0	921	953	953	26.1	24.5	24.9	717.4	6,117.3	231.0	753.7	0.95	0.96	0.95	50.03
7/22/2015	8:07:00 PM	458.7	461.5	456.3	8.2	7.9	8.6	993	1,023	1,028	25.5	24.2	24.2	767.5	6,130.1	248.1	806.7	0.95	0.96	0.95	50.00
7/22/2015	8:08:00 PM	458.5	461.5	456.3	8.3	7.9	8.6	994	1,023	1,029	25.5	24.2	24.1	767.7	6,142.9	248.2	806.9	0.95	0.96	0.95	49.99
7/22/2015	8:09:00 PM	460.4	463.2	458.4	7.3	7.1	7.6	860	889	887	26.2	24.5	25.4	666.0	6,154.0	215.6	700.1	0.95	0.96	0.95	49.96
7/22/2015	8:10:00 PM	466.8	469.3	465.3	4.5	4.6	5.0	471	499	470	28.5	25.2	29.5	369.4	6,160.1	120.4	388.6	0.95	0.96	0.94	49.94
7/22/2015	8:11:00 PM	466.8	469.4	465.5	4.6	4.6	5.0	474	501	472	28.4	25.3	29.4	371.3	6,166.3	120.7	390.5	0.95	0.96	0.94	49.90
7/22/2015	8:12:00 PM	466.5	469.1	465.2	4.6	4.6	5.0	473	498	473	28.3	25.4	29.3	370.3	6,172.5	120.2	389.5	0.95	0.96	0.94	49.90
7/22/2015	8:13:00 PM	465.0	467.7	463.7	5.5	5.5	5.9	588	615	597	27.5	25.2	27.4	460.6	6,180.2	148.1	483.9	0.95	0.96	0.95	49.89
7/22/2015	8:14:00 PM	463.8	466.6	462.5	5.5	5.4	5.9	592	619	602	27.5	25.2	27.3	462.9	6,187.9	148.6	486.3	0.95	0.96	0.95	49.89
7/22/2015	8:15:00 PM	462.9	465.8	461.6	6.1	5.9	6.5	665	694	680	27.2	25.0	26.6	519.7	6,196.6	166.8	545.8	0.95	0.96	0.95	49.92
7/22/2015	8:16:00 PM	462.6	465.5	461.1	6.1	6.0	6.5	672	703	687	27.1	24.9	26.6	524.8	6,205.3	168.4	551.2	0.95	0.96	0.95	49.95
7/22/2015	8:17:00 PM	463.4	466.1	461.7	6.0	5.9	6.4	672	703	687	27.3	24.9	26.7	526.1	6,214.1	168.4	552.5	0.95	0.96	0.95	49.94
7/22/2015	8:18:00 PM	464.8	467.4	463.2	5.9	5.8	6.3	671	702	685	27.3	25.0	26.9	526.5	6,222.8	168.4	552.8	0.95	0.96	0.95	49.95
7/22/2015	8:19:00 PM	464.9	467.2	463.3	5.9	5.8	6.3	673	702	684	27.2	25.0	26.9	526.7	6,231.6	168.4	553.1	0.95	0.96	0.95	49.95
7/22/2015	8:20:00 PM	465.0	467.3	463.4	5.9	5.8	6.2	671	699	683	27.1	25.0	26.9	525.5	6,240.4	168.0	551.7	0.95	0.96	0.95	49.94

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	8:21:00 PM	465.2	467.5	463.5	5.8	5.7	6.1	657	684	667	27.3	25.1	27.1	514.0	6,248.9	164.2	539.7	0.95	0.96	0.95	49.94
7/22/2015	8:22:00 PM	466.0	468.2	464.4	5.4	5.3	5.7	592	618	596	27.5	25.1	27.7	463.0	6,256.7	148.3	486.3	0.95	0.96	0.95	49.91
7/22/2015	8:23:00 PM	465.8	468.1	464.2	5.4	5.4	5.7	594	620	598	27.4	25.1	27.7	464.4	6,264.4	148.9	487.7	0.95	0.96	0.95	49.91
7/22/2015	8:24:00 PM	466.1	468.4	464.5	5.3	5.3	5.7	588	613	591	27.4	25.1	27.8	459.6	6,272.1	147.5	482.7	0.95	0.96	0.95	49.95
7/22/2015	8:25:00 PM	466.3	468.7	464.7	5.4	5.3	5.7	592	617	595	27.3	25.1	27.7	462.5	6,279.8	148.7	485.9	0.95	0.96	0.95	49.98
7/22/2015	8:26:00 PM	466.0	468.3	464.3	5.4	5.3	5.8	593	618	597	27.4	25.0	27.6	463.3	6,287.5	149.2	486.8	0.95	0.96	0.95	49.97
7/22/2015	8:27:00 PM	466.3	468.4	464.6	5.3	5.3	5.7	585	611	589	27.4	25.0	27.7	457.6	6,295.1	147.5	480.8	0.95	0.96	0.94	49.97
7/22/2015	8:28:00 PM	465.8	468.1	464.1	5.5	5.5	5.9	615	643	621	27.3	24.9	27.5	481.1	6,303.1	154.8	505.5	0.95	0.96	0.95	49.95
7/22/2015	8:29:00 PM	465.9	468.1	464.2	5.5	5.5	5.9	616	643	621	27.2	25.0	27.5	481.5	6,311.2	154.9	505.9	0.95	0.96	0.95	49.97
7/22/2015	8:30:00 PM	466.3	468.3	464.6	5.3	5.3	5.7	591	622	596	27.7	24.8	27.9	463.6	6,318.9	149.7	487.3	0.95	0.96	0.94	49.96
7/22/2015	8:31:00 PM	466.7	468.6	465.0	5.2	5.2	5.6	589	621	594	27.7	24.9	28.0	462.8	6,326.6	149.2	486.3	0.95	0.96	0.94	49.94
7/22/2015	8:32:00 PM	467.3	469.3	465.7	5.2	5.2	5.6	588	620	593	27.9	24.9	28.1	462.8	6,334.3	148.8	486.2	0.95	0.96	0.94	49.92
7/22/2015	8:33:00 PM	466.9	468.9	465.4	5.1	5.1	5.5	566	595	570	27.8	25.2	28.5	443.7	6,341.7	144.1	466.6	0.95	0.96	0.94	49.92
7/22/2015	8:34:00 PM	457.2	459.3	455.6	4.3	4.3	4.6	460	482	458	30.3	27.8	34.7	346.8	6,347.5	113.2	365.8	0.94	0.94	0.92	49.90
7/22/2015	8:35:00 PM	439.3	441.9	437.0	8.9	8.5	9.2	1,041	1,066	1,074	24.6	23.7	23.5	767.6	6,360.3	250.2	807.4	0.95	0.96	0.95	49.89
7/22/2015	8:36:00 PM	438.9	441.4	436.7	8.9	8.5	9.2	1,043	1,067	1,076	24.6	23.7	23.5	768.1	6,373.1	250.2	807.9	0.95	0.95	0.95	49.90
7/22/2015	8:37:00 PM	439.7	442.3	437.4	8.8	8.5	9.1	1,043	1,068	1,076	24.6	23.6	23.5	769.9	6,385.9	250.4	809.6	0.95	0.96	0.95	49.89
7/22/2015	8:38:00 PM	440.1	442.8	437.8	8.9	8.5	9.2	1,045	1,071	1,079	24.6	23.6	23.5	772.5	6,398.8	251.3	812.4	0.95	0.96	0.95	49.88
7/22/2015	8:39:00 PM	440.5	443.2	438.3	9.0	8.7	9.4	1,048	1,075	1,081	24.5	23.5	23.4	775.3	6,411.7	252.8	815.6	0.95	0.95	0.95	49.88
7/22/2015	8:40:00 PM	440.2	443.0	438.2	9.1	8.8	9.5	1,051	1,078	1,084	24.5	23.5	23.4	777.1	6,424.7	253.6	817.4	0.95	0.95	0.95	49.90
7/22/2015	8:41:00 PM	440.1	442.9	438.1	9.1	8.8	9.5	1,053	1,080	1,085	24.4	23.5	23.4	777.9	6,437.6	253.8	818.3	0.95	0.95	0.95	49.88
7/22/2015	8:42:00 PM	440.5	443.1	438.4	9.0	8.7	9.4	1,053	1,080	1,084	24.5	23.5	23.5	778.4	6,450.6	253.6	818.7	0.95	0.95	0.95	49.89
7/22/2015	8:43:00 PM	440.0	442.6	437.9	9.1	8.8	9.5	1,055	1,082	1,085	24.4	23.5	23.5	778.7	6,463.6	253.9	819.1	0.95	0.95	0.95	49.88
7/22/2015	8:44:00 PM	439.8	442.4	437.7	9.1	8.8	9.5	1,054	1,081	1,085	24.5	23.5	23.5	778.1	6,476.6	253.6	818.4	0.95	0.95	0.95	49.88
7/22/2015	8:45:00 PM	440.0	442.6	437.8	9.0	8.7	9.4	1,053	1,079	1,084	24.5	23.5	23.4	777.2	6,489.5	253.3	817.5	0.95	0.95	0.95	49.89
7/22/2015	8:46:00 PM	439.5	442.2	437.4	8.9	8.6	9.3	1,052	1,078	1,083	24.5	23.6	23.5	775.8	6,502.4	252.5	815.9	0.95	0.95	0.95	49.89
7/22/2015	8:47:00 PM	442.8	445.2	440.9	7.1	6.9	7.5	801	824	818	25.8	24.3	25.8	592.0	6,512.3	193.2	622.8	0.95	0.95	0.95	49.95
7/22/2015	8:48:00 PM	445.9	448.2	444.3	5.1	5.1	5.5	529	550	531	27.3	25.1	28.3	393.9	6,518.9	128.2	414.3	0.95	0.96	0.94	50.01
7/22/2015	8:49:00 PM	442.5	444.8	440.5	7.3	7.0	7.6	811	839	831	25.7	24.2	25.0	603.3	6,528.9	194.7	634.0	0.95	0.96	0.95	50.02
7/22/2015	8:50:00 PM	442.9	445.2	440.8	7.3	7.0	7.7	810	839	831	25.7	24.2	25.1	603.8	6,539.0	195.0	634.6	0.95	0.96	0.95	50.04

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	8:51:00 PM	443.0	445.4	441.0	7.3	7.1	7.7	811	840	832	25.8	24.2	25.1	604.5	6,549.1	195.3	635.3	0.95	0.96	0.95	50.04
7/22/2015	8:52:00 PM	443.7	446.0	441.8	7.1	6.9	7.5	777	805	795	25.9	24.3	25.4	579.9	6,558.7	187.2	609.4	0.95	0.96	0.95	50.02
7/22/2015	8:53:00 PM	446.1	448.4	444.4	5.5	5.4	5.9	572	595	577	27.0	25.0	27.3	427.8	6,565.9	138.3	449.7	0.95	0.96	0.95	49.98
7/22/2015	8:54:00 PM	446.7	449.0	445.0	5.3	5.1	5.6	557	579	561	27.2	25.1	27.5	416.8	6,572.8	134.4	438.0	0.95	0.96	0.95	49.95
7/22/2015	8:55:00 PM	445.9	448.3	444.3	5.3	5.2	5.7	557	579	562	27.1	25.1	27.5	416.3	6,579.7	134.1	437.4	0.95	0.96	0.95	49.92
7/22/2015	8:56:00 PM	445.9	448.1	444.3	5.3	5.2	5.6	558	579	562	27.1	25.2	27.4	416.6	6,586.7	134.1	437.7	0.95	0.96	0.95	49.91
7/22/2015	8:57:00 PM	445.8	448.0	444.2	5.3	5.2	5.7	558	579	562	27.1	25.2	27.4	416.7	6,593.6	134.1	437.8	0.95	0.96	0.95	49.91
7/22/2015	8:58:00 PM	445.6	447.8	444.0	5.3	5.2	5.7	559	580	563	27.1	25.1	27.4	417.2	6,600.6	134.3	438.3	0.95	0.96	0.95	49.89
7/22/2015	8:59:00 PM	445.6	447.8	444.0	5.2	5.1	5.6	560	580	563	27.0	25.2	27.6	417.2	6,607.5	134.1	438.3	0.95	0.96	0.95	49.90
7/22/2015	9:00:00 PM	445.7	447.9	444.2	5.2	5.1	5.6	558	579	562	27.1	25.2	27.6	416.5	6,614.5	133.7	437.5	0.95	0.96	0.95	49.89
7/22/2015	9:01:00 PM	445.8	447.9	444.2	5.3	5.2	5.6	556	577	560	27.1	25.2	27.5	415.3	6,621.4	133.7	436.3	0.95	0.96	0.95	49.88
7/22/2015	9:02:00 PM	442.7	445.0	440.8	7.2	7.0	7.6	827	852	846	25.7	24.3	25.3	613.7	6,631.6	198.3	645.0	0.95	0.96	0.95	49.88
7/22/2015	9:03:00 PM	441.4	443.7	439.3	8.2	7.9	8.5	953	978	978	25.1	23.9	24.2	705.8	6,643.4	228.2	741.8	0.95	0.96	0.95	49.87
7/22/2015	9:04:00 PM	446.5	448.7	445.0	5.0	4.9	5.3	544	561	547	27.2	25.6	28.6	403.2	6,650.1	131.6	424.2	0.95	0.95	0.94	49.91
7/22/2015	9:05:00 PM	450.0	452.1	448.7	3.2	3.3	3.6	323	336	314	28.5	26.4	31.4	239.9	6,654.1	79.5	252.8	0.95	0.95	0.94	49.92
7/22/2015	9:06:00 PM	450.9	452.9	449.5	3.2	3.2	3.5	323	335	313	28.5	26.5	31.5	240.2	6,658.1	79.5	253.1	0.95	0.95	0.94	49.93
7/22/2015	9:07:00 PM	451.0	453.1	449.5	3.1	3.2	3.5	324	337	314	28.5	26.4	31.7	241.2	6,662.1	79.8	254.1	0.96	0.95	0.94	49.93
7/22/2015	9:08:00 PM	449.4	451.4	447.7	4.4	4.3	4.7	476	497	475	27.7	25.6	29.3	357.3	6,668.1	115.6	375.6	0.95	0.96	0.94	49.92
7/22/2015	9:09:00 PM	447.4	449.2	445.6	5.7	5.6	6.1	624	652	633	26.9	24.8	27.0	469.6	6,675.9	150.9	493.3	0.95	0.96	0.95	49.91
7/22/2015	9:10:00 PM	447.3	449.1	445.5	5.7	5.6	6.1	625	652	634	26.8	24.8	27.0	470.0	6,683.7	151.2	493.8	0.95	0.96	0.95	49.91
7/22/2015	9:11:00 PM	447.1	449.0	445.4	5.7	5.6	6.1	626	653	635	26.9	24.9	26.9	470.3	6,691.6	151.3	494.1	0.95	0.96	0.95	49.91
7/22/2015	9:12:00 PM	447.3	449.2	445.6	5.7	5.6	6.1	626	653	635	26.9	24.9	26.9	470.9	6,699.4	151.2	494.6	0.95	0.96	0.95	49.91
7/22/2015	9:13:00 PM	447.8	449.7	446.2	5.7	5.6	6.1	626	652	636	26.9	24.9	26.9	471.6	6,707.3	151.5	495.4	0.95	0.96	0.95	49.91
7/22/2015	9:14:00 PM	444.9	446.9	443.0	7.2	6.9	7.6	834	861	856	25.7	24.4	25.1	623.5	6,717.7	200.8	655.1	0.95	0.96	0.95	49.91
7/22/2015	9:15:00 PM	443.8	446.0	442.1	7.8	7.5	8.2	911	938	936	25.3	24.2	24.5	679.9	6,729.0	219.2	714.3	0.95	0.96	0.95	49.89
7/22/2015	9:16:00 PM	443.9	446.1	442.1	7.7	7.4	8.2	901	928	925	25.3	24.2	24.6	672.3	6,740.2	216.8	706.5	0.95	0.96	0.95	49.88
7/22/2015	9:17:00 PM	444.0	446.1	442.2	7.7	7.4	8.1	888	915	912	25.4	24.2	24.6	662.7	6,751.3	213.9	696.4	0.95	0.96	0.95	49.90
7/22/2015	9:18:00 PM	443.8	446.0	441.9	7.8	7.4	8.1	904	931	929	25.3	24.1	24.5	674.3	6,762.5	217.7	708.7	0.95	0.96	0.95	49.91
7/22/2015	9:19:00 PM	445.9	447.9	443.8	7.6	7.3	8.0	906	934	931	25.4	24.1	24.6	679.2	6,773.8	218.8	713.6	0.95	0.96	0.95	49.94
7/22/2015	9:20:00 PM	446.5	448.6	444.3	7.4	7.1	7.8	904	934	929	25.6	24.2	24.8	679.7	6,785.2	217.9	713.8	0.95	0.96	0.95	49.97

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	9:21:00 PM	446.4	448.6	444.3	7.7	7.4	8.2	904	934	930	25.3	24.0	24.5	678.9	6,796.5	219.0	713.4	0.95	0.96	0.95	50.01
7/22/2015	9:22:00 PM	447.3	449.5	445.2	7.9	7.6	8.3	902	932	928	25.4	24.1	24.5	678.9	6,807.8	219.4	713.6	0.95	0.96	0.95	50.03
7/22/2015	9:23:00 PM	447.5	449.6	445.3	7.8	7.5	8.3	902	932	927	25.3	24.0	24.6	678.9	6,819.1	219.4	713.6	0.95	0.96	0.95	50.04
7/22/2015	9:24:00 PM	447.7	449.7	445.5	7.7	7.5	8.2	902	932	926	25.4	24.1	24.7	679.0	6,830.4	219.0	713.5	0.95	0.96	0.95	50.05
7/22/2015	9:25:00 PM	448.3	450.3	446.1	7.7	7.4	8.1	900	929	924	25.5	24.1	24.7	678.3	6,841.7	218.7	712.7	0.95	0.96	0.95	50.07
7/22/2015	9:26:00 PM	447.3	449.3	445.0	7.7	7.5	8.1	901	931	927	25.5	24.2	24.6	678.2	6,853.0	218.7	712.6	0.95	0.96	0.95	50.06
7/22/2015	9:27:00 PM	445.7	447.8	443.5	7.9	7.6	8.3	906	936	932	25.4	24.0	24.5	679.3	6,864.3	220.1	714.1	0.95	0.96	0.95	50.07
7/22/2015	9:28:00 PM	445.5	447.6	443.4	7.9	7.6	8.3	910	939	934	25.3	24.0	24.5	681.2	6,875.7	220.7	716.1	0.95	0.96	0.95	50.06
7/22/2015	9:29:00 PM	447.7	449.8	445.9	6.2	6.0	6.5	700	722	714	26.6	25.4	28.1	522.8	6,884.4	170.8	550.1	0.95	0.95	0.94	50.03
7/22/2015	9:30:00 PM	454.4	456.3	453.0	1.5	1.5	1.8	133	138	121	31.2	31.0	41.2	95.7	6,886.0	37.5	103.0	0.95	0.93	0.91	49.99
7/22/2015	9:31:00 PM	451.4	453.3	449.9	4.1	4.0	4.4	429	446	427	28.4	27.0	31.7	321.8	6,891.4	105.9	338.9	0.95	0.95	0.93	49.98
7/22/2015	9:32:00 PM	450.5	452.5	449.1	5.5	5.5	6.0	607	631	612	26.8	25.0	27.3	458.6	6,899.0	147.5	481.8	0.95	0.96	0.95	49.97
7/22/2015	9:33:00 PM	450.1	452.1	448.6	5.9	5.7	6.2	642	667	651	26.7	24.8	26.8	485.1	6,907.1	155.9	509.6	0.95	0.96	0.95	49.95
7/22/2015	9:34:00 PM	448.7	450.8	447.3	6.0	5.8	6.4	667	693	678	26.5	24.7	26.6	503.2	6,915.5	161.7	528.6	0.95	0.96	0.95	49.93
7/22/2015	9:35:00 PM	448.9	451.0	447.5	5.9	5.7	6.3	652	676	663	26.7	25.0	27.0	490.9	6,923.7	159.1	516.2	0.95	0.96	0.94	49.92
7/22/2015	9:36:00 PM	455.3	457.3	454.4	1.4	1.5	1.7	129	135	119	31.7	30.7	41.3	93.8	6,925.2	36.7	100.8	0.95	0.94	0.90	49.93
7/22/2015	9:37:00 PM	455.4	457.6	454.7	1.4	1.4	1.7	128	135	118	31.9	30.7	41.5	93.5	6,926.8	36.7	100.6	0.95	0.94	0.90	49.94
7/22/2015	9:38:00 PM	450.1	452.3	449.1	4.8	4.7	5.2	541	561	548	28.1	26.5	30.5	406.4	6,933.6	132.6	427.6	0.95	0.95	0.93	49.91
7/22/2015	9:39:00 PM	448.4	450.5	447.2	6.5	6.3	6.9	738	765	753	26.2	24.6	25.9	556.6	6,942.8	178.6	584.6	0.95	0.96	0.95	49.92
7/22/2015	9:40:00 PM	448.5	450.5	447.1	6.5	6.3	6.9	737	765	753	26.3	24.6	26.0	556.3	6,952.1	178.4	584.2	0.95	0.96	0.95	49.90
7/22/2015	9:41:00 PM	448.6	450.6	447.1	6.5	6.2	6.8	737	764	752	26.3	24.7	26.0	556.1	6,961.4	178.3	584.0	0.95	0.96	0.95	49.93
7/22/2015	9:42:00 PM	448.6	450.8	447.1	6.5	6.3	6.9	737	764	752	26.3	24.6	25.9	556.1	6,970.7	178.5	584.1	0.95	0.96	0.95	49.95
7/22/2015	9:43:00 PM	442.6	445.4	440.8	9.6	9.2	9.9	1,201	1,221	1,233	23.9	23.3	23.1	888.3	6,985.5	290.4	934.6	0.95	0.95	0.95	49.96
7/22/2015	9:44:00 PM	444.3	447.0	442.6	8.7	8.3	9.0	1,076	1,096	1,103	26.6	25.3	27.9	795.5	6,998.7	261.2	837.8	0.94	0.94	0.93	49.96
7/22/2015	9:45:00 PM	450.4	452.6	449.0	5.0	4.9	5.4	553	573	560	28.2	26.7	31.2	414.8	7,005.6	134.9	436.7	0.95	0.95	0.93	49.98
7/22/2015	9:46:00 PM	446.9	449.2	445.3	7.0	6.7	7.4	793	822	813	26.0	24.5	25.4	596.7	7,015.6	192.0	626.9	0.95	0.96	0.95	50.00
7/22/2015	9:47:00 PM	447.4	449.8	445.9	6.6	6.4	7.1	755	782	773	26.2	24.6	25.8	568.2	7,025.0	183.2	597.0	0.95	0.96	0.95	50.01
7/22/2015	9:48:00 PM	454.6	456.8	453.4	2.2	2.3	2.6	227	236	218	29.5	27.6	33.8	169.2	7,027.9	57.7	178.9	0.95	0.95	0.93	50.04
7/22/2015	9:49:00 PM	452.7	454.9	451.4	3.8	3.8	4.2	404	420	401	28.2	26.2	30.1	304.5	7,032.9	98.8	320.1	0.95	0.96	0.94	50.05
7/22/2015	9:50:00 PM	452.9	454.9	451.5	4.4	4.4	4.8	471	490	470	27.7	25.6	28.8	356.3	7,038.9	114.5	374.3	0.95	0.96	0.94	50.04

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	9:51:00 PM	454.4	456.5	453.2	3.1	3.2	3.4	329	342	323	29.3	27.6	33.6	246.7	7,043.0	82.1	260.2	0.95	0.95	0.93	50.04
7/22/2015	9:52:00 PM	452.9	455.1	451.8	3.8	3.8	4.1	401	416	397	28.2	26.3	30.3	302.2	7,048.0	98.0	317.8	0.95	0.95	0.94	50.06
7/22/2015	9:53:00 PM	453.1	455.2	452.0	4.1	4.1	4.5	436	453	435	27.8	25.8	29.0	330.0	7,053.5	106.0	346.7	0.95	0.96	0.94	50.05
7/22/2015	9:54:00 PM	453.6	455.6	452.5	4.1	4.1	4.5	435	452	435	27.9	25.8	29.0	330.0	7,059.0	106.0	346.7	0.95	0.96	0.94	50.05
7/22/2015	9:55:00 PM	453.1	455.2	452.1	4.1	4.1	4.5	436	453	435	27.9	25.8	29.0	330.0	7,064.5	105.9	346.6	0.95	0.96	0.94	50.01
7/22/2015	9:56:00 PM	453.3	455.3	452.3	4.1	4.1	4.4	425	442	424	28.0	26.0	29.4	321.7	7,069.9	103.9	338.1	0.95	0.96	0.94	49.97
7/22/2015	9:57:00 PM	455.6	457.5	454.6	1.2	1.2	1.4	104	110	94	37.4	36.5	52.0	74.0	7,071.1	27.4	81.1	0.93	0.91	0.85	49.92
7/22/2015	9:58:00 PM	455.8	457.6	454.7	1.0	0.9	1.2	50	58	44	52.8	49.1	80.3	32.7	7,071.7	9.4	40.0	0.87	0.86	0.71	49.94
7/22/2015	9:59:00 PM	456.0	457.9	455.0	0.9	0.9	1.1	50	58	44	53.7	49.0	80.1	32.6	7,072.2	9.4	39.9	0.86	0.86	0.71	49.96
7/22/2015	10:00:00 PM	456.8	458.7	455.8	0.7	0.7	0.8	49	58	45	55.7	49.5	80.8	32.6	7,072.8	9.5	40.1	0.85	0.86	0.70	49.99
7/22/2015	10:01:00 PM	456.8	458.8	455.7	0.6	0.8	0.9	19	29	25	26.2	89.0	120.2	14.1	7,073.0	4.2	19.2	0.35	0.66	0.47	50.03
7/22/2015	10:02:00 PM	457.5	459.5	456.3	0.6	0.8	0.9	-	11	12	-	114.6	147.7	2.5	7,073.0	0.9	6.1	-	0.52	0.31	50.04
7/22/2015	10:03:00 PM	454.1	456.3	453.2	3.1	3.1	3.4	310	325	313	26.9	47.8	58.5	234.8	7,076.9	76.3	247.9	0.75	0.86	0.79	50.07
7/22/2015	10:04:00 PM	454.7	456.9	453.6	4.3	4.3	4.6	447	465	447	27.9	25.7	28.8	340.0	7,082.6	109.6	357.3	0.95	0.96	0.94	50.07
7/22/2015	10:05:00 PM	455.5	457.9	454.6	3.6	3.7	4.0	375	390	371	28.4	26.2	30.2	284.5	7,087.3	92.4	299.1	0.95	0.96	0.94	50.05
7/22/2015	10:06:00 PM	453.3	455.7	452.4	4.6	4.7	5.0	501	523	503	27.7	25.4	28.3	381.1	7,093.7	122.2	400.3	0.95	0.96	0.95	50.05
7/22/2015	10:07:00 PM	452.7	455.0	451.8	4.6	4.6	5.0	503	525	505	27.7	25.4	28.4	382.2	7,100.1	122.3	401.3	0.95	0.96	0.94	50.04
7/22/2015	10:08:00 PM	451.5	453.8	450.6	4.7	4.7	5.1	505	527	507	27.6	25.4	28.3	382.3	7,106.4	122.7	401.6	0.95	0.96	0.94	49.99
7/22/2015	10:09:00 PM	450.4	452.7	449.4	5.3	5.3	5.8	572	596	578	27.2	25.1	27.5	432.7	7,113.7	138.9	454.5	0.95	0.96	0.95	49.98
7/22/2015	10:10:00 PM	449.6	452.0	448.5	5.9	5.8	6.4	641	668	651	26.9	24.9	26.8	485.2	7,121.7	155.8	509.6	0.95	0.96	0.95	49.97
7/22/2015	10:11:00 PM	448.8	451.1	447.6	5.9	5.8	6.3	641	668	653	26.9	24.8	26.5	484.6	7,129.8	155.8	509.1	0.95	0.96	0.95	49.94
7/22/2015	10:12:00 PM	448.6	450.8	447.3	5.6	5.6	6.2	611	644	624	27.3	24.7	27.1	463.7	7,137.5	149.7	487.3	0.95	0.96	0.94	49.94
7/22/2015	10:13:00 PM	447.7	449.9	446.3	5.7	5.7	6.2	612	647	625	27.3	24.6	27.1	463.6	7,145.3	149.9	487.3	0.95	0.96	0.94	49.93
7/22/2015	10:14:00 PM	446.8	449.3	445.3	6.8	6.7	7.3	769	801	791	26.4	24.3	25.7	579.0	7,154.9	187.5	608.6	0.95	0.96	0.95	49.94
7/22/2015	10:15:00 PM	444.0	446.8	442.3	8.6	8.3	9.1	1,024	1,051	1,060	24.8	23.8	23.5	765.4	7,167.7	248.1	804.6	0.95	0.96	0.95	49.95
7/22/2015	10:16:00 PM	447.3	450.0	445.9	6.5	6.5	7.0	749	774	768	26.4	24.5	26.4	560.9	7,177.0	183.3	590.2	0.95	0.96	0.94	49.97
7/22/2015	10:17:00 PM	452.2	454.5	451.2	3.8	3.9	4.3	394	418	391	28.7	25.4	30.3	298.6	7,182.0	98.0	314.4	0.95	0.96	0.94	49.97
7/22/2015	10:18:00 PM	452.9	455.3	452.0	3.8	4.0	4.3	397	420	394	28.5	25.5	30.1	301.2	7,187.0	98.7	317.1	0.95	0.96	0.94	49.98
7/22/2015	10:19:00 PM	451.7	454.3	450.7	4.8	4.9	5.3	506	531	511	27.7	25.2	28.0	384.6	7,193.4	124.3	404.2	0.95	0.96	0.94	50.02
7/22/2015	10:20:00 PM	451.9	454.4	450.9	4.9	4.9	5.4	514	537	518	27.6	25.2	27.9	389.8	7,199.9	126.2	409.8	0.95	0.96	0.94	50.04

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	10:21:00 PM	451.5	453.9	450.4	4.9	4.9	5.4	515	538	518	27.5	25.2	28.0	390.1	7,206.4	126.2	410.0	0.95	0.96	0.94	50.02
7/22/2015	10:22:00 PM	451.4	453.9	450.3	4.9	5.0	5.4	515	539	519	27.5	25.2	28.0	390.6	7,212.9	126.5	410.6	0.95	0.96	0.94	50.03
7/22/2015	10:23:00 PM	450.9	453.4	449.8	4.9	4.9	5.4	515	540	520	27.6	25.1	28.0	390.5	7,219.4	126.2	410.4	0.95	0.96	0.94	50.01
7/22/2015	10:24:00 PM	450.9	453.4	449.8	4.9	4.9	5.4	516	540	520	27.5	25.2	28.0	390.8	7,226.0	126.3	410.7	0.95	0.96	0.94	49.97
7/22/2015	10:25:00 PM	450.6	453.2	449.6	4.8	4.8	5.3	515	540	520	27.6	25.2	28.0	390.4	7,232.5	126.1	410.3	0.95	0.96	0.94	49.95
7/22/2015	10:26:00 PM	449.6	452.3	448.6	4.9	4.9	5.3	514	540	522	27.7	25.1	27.8	389.9	7,239.0	126.1	409.9	0.95	0.96	0.94	49.93
7/22/2015	10:27:00 PM	449.6	452.3	448.6	4.8	4.8	5.3	513	540	520	27.8	25.1	28.0	389.1	7,245.5	125.7	409.0	0.95	0.96	0.94	49.93
7/22/2015	10:28:00 PM	451.3	453.9	450.2	4.8	4.9	5.4	511	538	518	27.8	25.1	28.0	389.0	7,251.9	126.0	408.9	0.95	0.96	0.94	49.94
7/22/2015	10:29:00 PM	451.5	454.2	450.5	4.9	4.9	5.4	512	539	518	27.7	25.1	28.0	389.5	7,258.4	126.2	409.5	0.95	0.96	0.94	49.93
7/22/2015	10:30:00 PM	452.4	455.0	451.3	4.8	4.9	5.4	512	538	517	27.7	25.1	28.2	389.8	7,264.9	126.3	409.8	0.95	0.96	0.94	49.94
7/22/2015	10:31:00 PM	452.1	454.8	451.1	4.9	5.0	5.4	512	538	517	27.7	25.1	28.1	389.6	7,271.4	126.2	409.6	0.95	0.96	0.94	49.95
7/22/2015	10:32:00 PM	452.0	454.8	451.0	4.9	5.0	5.4	512	539	517	27.8	25.1	28.1	389.6	7,277.9	126.4	409.7	0.95	0.96	0.94	49.98
7/22/2015	10:33:00 PM	452.0	454.7	451.0	5.1	5.1	5.6	532	561	540	27.7	25.0	27.9	405.8	7,284.7	131.7	426.7	0.95	0.96	0.94	49.99
7/22/2015	10:34:00 PM	446.5	449.7	444.9	8.5	8.2	8.9	984	1,016	1,020	25.1	23.8	23.8	741.5	7,297.0	240.9	779.6	0.95	0.96	0.95	50.01
7/22/2015	10:35:00 PM	446.5	449.6	444.9	8.7	8.4	9.1	1,021	1,052	1,059	25.0	23.8	23.6	769.1	7,309.8	249.8	808.7	0.95	0.96	0.95	50.00
7/22/2015	10:36:00 PM	447.1	450.2	445.6	8.2	8.0	8.7	961	991	994	25.2	23.9	24.1	723.7	7,321.9	235.3	761.0	0.95	0.96	0.95	49.99
7/22/2015	10:37:00 PM	454.1	456.7	453.3	4.0	4.1	4.5	402	427	398	28.7	25.3	30.3	305.9	7,327.0	101.0	322.3	0.95	0.96	0.94	49.98
7/22/2015	10:38:00 PM	453.8	456.3	452.9	3.9	4.0	4.4	397	422	393	28.8	25.3	30.5	302.0	7,332.0	99.6	318.1	0.95	0.96	0.94	49.95
7/22/2015	10:39:00 PM	454.5	456.9	453.6	3.9	4.0	4.4	397	421	392	28.6	25.4	30.6	302.0	7,337.1	99.6	318.1	0.95	0.96	0.94	49.94
7/22/2015	10:40:00 PM	452.7	455.1	451.4	5.3	5.3	5.9	578	611	590	27.7	24.8	28.0	442.2	7,344.4	143.4	465.0	0.95	0.96	0.94	49.95
7/22/2015	10:41:00 PM	450.0	452.6	448.5	6.8	6.7	7.3	787	826	818	26.6	24.4	25.4	601.7	7,354.5	193.5	632.1	0.95	0.96	0.95	49.94
7/22/2015	10:42:00 PM	449.2	451.9	447.7	7.1	6.9	7.5	831	866	868	26.4	24.6	24.8	634.1	7,365.0	203.7	666.1	0.95	0.96	0.95	49.99
7/22/2015	10:43:00 PM	449.2	451.9	447.8	7.2	6.9	7.6	836	870	872	26.3	24.5	24.8	637.2	7,375.7	204.9	669.4	0.95	0.96	0.95	50.01
7/22/2015	10:44:00 PM	450.0	452.7	448.6	7.2	7.0	7.7	836	871	871	26.2	24.4	24.8	638.6	7,386.3	205.5	670.9	0.95	0.96	0.95	50.02
7/22/2015	10:45:00 PM	451.1	453.6	449.5	7.4	7.1	7.8	836	872	869	26.1	24.2	24.7	639.3	7,397.0	206.6	672.0	0.95	0.96	0.95	50.05
7/22/2015	10:46:00 PM	451.2	453.8	449.7	7.4	7.2	7.9	850	887	884	26.0	24.1	24.7	650.3	7,407.8	210.1	683.5	0.95	0.96	0.95	50.06
7/22/2015	10:47:00 PM	451.0	453.8	449.5	7.8	7.6	8.3	911	947	948	25.8	24.1	24.3	696.4	7,419.4	224.9	731.9	0.95	0.96	0.95	50.07
7/22/2015	10:48:00 PM	451.3	454.5	450.0	7.8	7.6	8.2	922	958	961	25.9	24.2	24.4	705.9	7,431.2	227.7	741.7	0.95	0.96	0.95	50.07
7/22/2015	10:49:00 PM	451.3	454.5	450.2	7.8	7.6	8.3	926	960	963	25.8	24.2	24.4	707.8	7,443.0	228.4	743.8	0.95	0.96	0.95	50.06
7/22/2015	10:50:00 PM	451.3	454.6	450.3	7.8	7.6	8.3	928	962	965	25.7	24.2	24.3	709.6	7,454.8	228.8	745.6	0.95	0.96	0.95	50.03

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	10:51:00 PM	451.5	454.6	450.3	7.8	7.6	8.3	929	963	965	25.7	24.1	24.3	709.9	7,466.6	229.0	746.0	0.95	0.96	0.95	50.05
7/22/2015	10:52:00 PM	451.7	454.2	450.3	7.8	7.6	8.2	929	962	962	25.7	24.1	24.5	708.8	7,478.4	228.6	744.8	0.95	0.96	0.95	50.03
7/22/2015	10:53:00 PM	451.1	453.5	449.6	7.9	7.8	8.4	930	964	963	25.6	24.1	24.4	708.9	7,490.3	229.0	745.1	0.95	0.96	0.95	50.03
7/22/2015	10:54:00 PM	450.3	452.7	448.8	8.0	7.9	8.5	934	966	967	25.6	24.1	24.4	709.7	7,502.1	229.7	746.0	0.95	0.96	0.95	50.03
7/22/2015	10:55:00 PM	450.2	452.6	448.7	8.1	7.9	8.6	930	962	964	25.5	24.1	24.2	706.8	7,513.9	229.3	743.1	0.95	0.96	0.95	50.02
7/22/2015	10:56:00 PM	450.1	452.5	448.6	8.1	7.9	8.6	930	962	964	25.5	24.1	24.2	706.9	7,525.6	229.4	743.3	0.95	0.96	0.95	50.01
7/22/2015	10:57:00 PM	449.8	452.2	448.4	7.9	7.8	8.5	931	961	964	25.5	24.2	24.3	706.4	7,537.4	228.6	742.5	0.95	0.96	0.95	50.00
7/22/2015	10:58:00 PM	450.0	452.2	448.5	7.8	7.7	8.3	931	961	964	25.6	24.3	24.4	706.8	7,549.2	228.4	742.8	0.95	0.96	0.95	49.98
7/22/2015	10:59:00 PM	452.7	454.8	451.4	6.6	6.5	7.2	759	790	782	26.6	24.6	26.0	579.5	7,558.9	187.6	609.2	0.95	0.96	0.95	49.97
7/22/2015	11:00:00 PM	451.7	454.0	450.4	7.5	7.4	8.1	866	898	896	25.9	24.3	24.8	660.8	7,569.9	214.0	694.6	0.95	0.96	0.95	49.98
7/22/2015	11:01:00 PM	456.6	458.7	455.9	4.2	4.3	4.7	444	472	444	28.5	25.2	29.7	341.1	7,575.6	111.5	359.0	0.95	0.96	0.94	50.04
7/22/2015	11:02:00 PM	456.7	459.1	456.2	4.1	4.2	4.7	439	467	441	28.6	25.3	29.7	337.9	7,581.2	110.4	355.6	0.95	0.96	0.94	50.05
7/22/2015	11:03:00 PM	457.3	459.8	456.9	4.3	4.4	4.9	454	483	458	28.6	25.4	29.4	350.8	7,587.0	114.3	369.0	0.95	0.96	0.94	50.07
7/22/2015	11:04:00 PM	456.0	458.6	455.2	5.9	5.8	6.4	632	665	649	27.5	25.0	26.8	488.2	7,595.2	157.3	513.0	0.95	0.96	0.94	50.10
7/22/2015	11:05:00 PM	455.8	458.5	455.1	5.8	5.8	6.3	634	668	652	27.4	24.9	26.8	490.3	7,603.3	158.0	515.2	0.95	0.96	0.95	50.10
7/22/2015	11:06:00 PM	456.5	459.0	455.7	5.9	5.8	6.4	635	668	652	27.3	24.9	26.8	491.0	7,611.5	158.3	516.0	0.95	0.96	0.95	50.12
7/22/2015	11:07:00 PM	455.0	457.6	454.1	6.7	6.6	7.2	730	762	753	26.7	24.7	25.8	561.8	7,620.9	181.6	590.5	0.95	0.96	0.95	50.10
7/22/2015	11:08:00 PM	452.8	455.5	451.8	7.5	7.3	8.0	841	873	871	26.1	24.4	24.8	644.1	7,631.6	208.6	677.1	0.95	0.96	0.95	50.07
7/22/2015	11:09:00 PM	457.3	459.8	456.6	5.0	5.0	5.5	519	549	526	28.1	25.0	28.7	399.9	7,638.3	130.7	420.9	0.95	0.96	0.94	50.04
7/22/2015	11:10:00 PM	458.9	461.4	458.2	4.4	4.5	4.9	438	469	440	28.8	25.0	29.7	339.3	7,643.9	111.6	357.3	0.95	0.96	0.94	50.01
7/22/2015	11:11:00 PM	459.3	461.7	458.6	4.4	4.5	4.9	438	468	440	28.9	25.1	29.8	339.4	7,649.6	111.7	357.5	0.95	0.96	0.94	49.97
7/22/2015	11:12:00 PM	459.4	461.7	458.6	4.4	4.5	5.0	438	468	440	28.8	25.1	29.7	339.4	7,655.3	111.8	357.4	0.95	0.96	0.94	49.96
7/22/2015	11:13:00 PM	459.4	461.7	458.6	4.5	4.5	5.0	438	468	440	28.8	25.0	29.7	339.4	7,660.9	112.0	357.5	0.95	0.96	0.94	49.94
7/22/2015	11:14:00 PM	458.8	461.1	458.1	4.6	4.7	5.1	438	469	441	28.7	25.0	29.6	339.6	7,666.6	112.1	357.7	0.95	0.96	0.94	49.93
7/22/2015	11:15:00 PM	458.6	460.9	457.9	4.5	4.6	5.1	438	468	442	28.7	25.1	29.4	339.6	7,672.2	111.8	357.6	0.95	0.96	0.94	49.96
7/22/2015	11:16:00 PM	459.0	461.2	458.4	4.5	4.5	5.0	438	468	442	28.7	25.0	29.4	339.8	7,677.9	111.8	357.8	0.95	0.96	0.94	49.96
7/22/2015	11:17:00 PM	458.2	460.6	457.4	5.5	5.5	6.0	574	606	588	27.8	24.9	27.6	445.0	7,685.3	144.6	468.0	0.95	0.96	0.94	49.98
7/22/2015	11:18:00 PM	457.0	459.5	455.9	6.4	6.3	6.9	691	724	713	27.0	24.7	26.1	535.0	7,694.2	172.9	562.3	0.95	0.96	0.95	49.98
7/22/2015	11:19:00 PM	458.6	461.0	457.7	5.5	5.5	6.0	564	594	577	27.7	25.1	27.3	437.7	7,701.5	141.8	460.2	0.95	0.96	0.94	49.98
7/22/2015	11:20:00 PM	458.5	460.9	457.7	5.4	5.4	5.9	558	588	571	27.8	25.0	27.4	433.2	7,708.7	140.2	455.4	0.95	0.96	0.94	49.95

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/22/2015	11:21:00 PM	458.5	460.8	457.6	5.5	5.5	6.0	559	589	571	27.7	24.9	27.4	433.2	7,716.0	141.0	455.7	0.95	0.96	0.94	49.98
7/22/2015	11:22:00 PM	457.7	460.0	456.8	5.5	5.5	6.0	560	590	572	27.6	24.9	27.3	433.2	7,723.2	140.9	455.6	0.95	0.96	0.94	49.97
7/22/2015	11:23:00 PM	457.6	460.0	456.7	5.7	5.6	6.1	560	590	572	27.6	25.0	27.4	433.3	7,730.4	141.1	455.8	0.95	0.96	0.94	49.97
7/22/2015	11:24:00 PM	457.8	460.2	457.0	5.7	5.7	6.1	560	590	572	27.7	25.0	27.3	433.4	7,737.6	141.0	455.8	0.95	0.96	0.94	49.98
7/22/2015	11:25:00 PM	456.6	459.1	455.7	6.3	6.2	6.7	646	678	664	27.2	24.8	26.5	499.0	7,745.9	162.0	524.7	0.95	0.96	0.94	50.00
7/22/2015	11:26:00 PM	456.7	459.3	455.8	5.9	5.8	6.3	610	639	627	27.5	25.1	27.5	469.8	7,753.8	153.7	494.4	0.95	0.96	0.94	50.01
7/22/2015	11:27:00 PM	461.2	463.6	460.6	3.2	3.3	3.6	289	306	285	29.7	26.4	32.2	222.1	7,757.5	75.2	234.6	0.95	0.95	0.93	50.01
7/22/2015	11:28:00 PM	461.7	464.1	461.1	3.0	3.2	3.4	264	281	259	29.9	26.5	32.7	203.0	7,760.9	69.1	214.5	0.95	0.95	0.93	50.03
7/22/2015	11:29:00 PM	461.2	463.6	460.5	3.0	3.2	3.5	264	281	259	29.9	26.5	32.6	203.0	7,764.2	69.2	214.5	0.95	0.95	0.93	50.01
7/22/2015	11:30:00 PM	460.6	463.1	460.0	3.1	3.2	3.5	264	282	260	29.9	26.3	32.5	203.2	7,767.6	69.0	214.7	0.95	0.95	0.93	50.00
7/22/2015	11:31:00 PM	461.1	463.6	460.4	3.1	3.2	3.5	264	282	261	30.0	26.4	32.5	203.5	7,771.0	69.2	215.1	0.95	0.96	0.93	49.99
7/22/2015	11:32:00 PM	461.6	464.2	461.0	3.0	3.1	3.4	257	275	253	30.4	26.4	33.0	198.0	7,774.3	67.8	209.4	0.95	0.95	0.93	49.99
7/22/2015	11:33:00 PM	461.8	464.3	461.3	2.7	2.9	3.2	235	253	228	30.7	26.5	34.5	180.5	7,777.3	63.3	191.4	0.95	0.95	0.92	49.99
7/22/2015	11:34:00 PM	462.5	464.9	462.0	2.7	2.9	3.2	236	254	229	30.5	26.4	34.5	181.4	7,780.4	63.6	192.3	0.95	0.95	0.92	49.96
7/22/2015	11:35:00 PM	457.8	460.2	456.9	5.7	5.7	6.2	587	621	603	27.7	24.8	27.5	455.3	7,787.9	148.3	479.0	0.95	0.96	0.94	49.99
7/22/2015	11:36:00 PM	457.5	459.9	456.4	6.1	6.1	6.6	635	671	654	27.3	24.7	26.7	492.9	7,796.2	160.0	518.3	0.95	0.96	0.94	49.98
7/22/2015	11:37:00 PM	457.8	460.2	456.8	6.2	6.1	6.6	637	673	656	27.3	24.7	26.7	494.9	7,804.4	160.6	520.4	0.95	0.96	0.94	50.00
7/22/2015	11:38:00 PM	457.7	460.2	456.8	6.0	6.0	6.5	619	653	636	27.4	24.8	26.9	480.1	7,812.4	156.2	504.9	0.95	0.96	0.94	50.01
7/22/2015	11:39:00 PM	460.8	463.3	460.2	4.8	4.8	5.2	460	487	463	28.3	25.2	29.0	356.9	7,818.4	116.8	375.6	0.95	0.96	0.94	49.99
7/22/2015	11:40:00 PM	461.7	464.2	461.1	4.8	4.9	5.2	446	471	447	28.3	25.3	29.2	346.2	7,824.1	113.3	364.4	0.95	0.96	0.94	50.00
7/22/2015	11:41:00 PM	461.4	463.8	460.7	5.2	5.2	5.7	502	531	509	28.1	25.2	28.5	391.0	7,830.6	127.3	411.3	0.95	0.96	0.94	49.98
7/22/2015	11:42:00 PM	461.1	463.5	460.4	5.4	5.4	5.9	515	544	522	27.9	25.1	28.1	400.5	7,837.3	130.8	421.5	0.95	0.96	0.94	49.96
7/22/2015	11:43:00 PM	461.0	463.4	460.3	5.3	5.3	5.7	504	533	511	28.0	25.1	28.3	392.4	7,843.9	128.2	412.9	0.95	0.96	0.94	49.96
7/22/2015	11:44:00 PM	461.8	464.2	461.1	5.1	5.1	5.5	503	532	509	28.1	25.2	28.4	391.9	7,850.4	127.7	412.3	0.95	0.96	0.94	49.97
7/22/2015	11:45:00 PM	460.9	463.3	460.1	5.5	5.4	6.0	554	588	567	28.0	24.9	27.8	433.1	7,857.6	140.7	455.5	0.95	0.96	0.94	49.94
7/22/2015	11:46:00 PM	461.0	463.4	460.2	5.5	5.5	6.0	559	593	572	28.0	25.0	27.8	436.9	7,864.9	141.8	459.4	0.95	0.96	0.94	49.97
7/22/2015	11:47:00 PM	460.2	462.6	459.2	5.9	5.9	6.4	617	651	634	27.7	24.8	27.2	481.1	7,872.9	156.3	505.9	0.95	0.96	0.94	50.01
7/22/2015	11:48:00 PM	455.0	458.0	453.6	8.8	8.5	9.2	1,042	1,073	1,086	25.4	24.2	23.8	800.6	7,886.2	260.5	842.0	0.95	0.96	0.95	50.00
7/22/2015	11:49:00 PM	460.1	462.4	459.2	5.9	5.9	6.4	615	658	634	28.2	24.6	27.8	481.8	7,894.3	157.0	506.9	0.95	0.96	0.94	49.96
7/22/2015	11:50:00 PM	459.9	462.2	459.1	5.9	6.0	6.5	622	667	643	28.1	24.5	27.5	488.3	7,902.4	158.5	513.5	0.95	0.96	0.94	49.95

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/22/2015	11:51:00 PM	457.7	460.3	456.6	6.9	6.8	7.4	763	802	793	27.0	24.6	25.8	593.8	7,912.3	191.7	624.1	0.95	0.96	0.95	49.93
7/22/2015	11:52:00 PM	457.0	459.6	455.7	7.3	7.1	7.7	814	852	846	26.8	24.5	25.6	630.3	7,922.8	204.9	662.9	0.95	0.96	0.95	49.93
7/22/2015	11:53:00 PM	459.8	462.0	458.7	5.7	5.7	6.3	592	640	615	28.5	24.5	27.7	466.9	7,930.6	152.2	491.2	0.95	0.96	0.94	49.96
7/22/2015	11:54:00 PM	460.4	462.4	459.3	5.8	5.7	6.3	593	639	615	28.4	24.6	27.7	467.2	7,938.4	152.0	491.5	0.95	0.96	0.94	49.98
7/22/2015	11:55:00 PM	462.3	464.4	461.3	5.7	5.8	6.3	593	639	613	28.4	24.5	27.8	468.3	7,946.2	152.6	492.7	0.95	0.96	0.94	50.05
7/22/2015	11:56:00 PM	462.8	464.8	461.8	5.8	5.8	6.3	593	639	612	28.3	24.5	27.8	468.8	7,954.0	152.8	493.2	0.95	0.96	0.94	50.08
7/22/2015	11:57:00 PM	463.1	465.2	462.1	5.9	5.9	6.4	594	639	613	28.3	24.5	27.8	469.3	7,961.8	153.3	493.8	0.95	0.96	0.94	50.10
7/22/2015	11:58:00 PM	463.4	465.6	462.4	6.0	6.0	6.5	594	639	613	28.3	24.5	27.8	469.8	7,969.7	153.4	494.3	0.95	0.96	0.94	50.10
7/22/2015	11:59:00 PM	463.4	465.5	462.3	5.9	5.9	6.4	595	639	614	28.3	24.6	27.8	470.3	7,977.5	153.3	494.8	0.95	0.96	0.94	50.09
7/23/2015	12:00:00 AM	463.3	465.5	462.2	5.8	5.8	6.4	595	640	614	28.4	24.6	27.9	470.6	7,985.3	153.3	495.1	0.95	0.96	0.94	50.08
7/23/2015	12:01:00 AM	459.0	461.5	457.4	8.1	7.9	8.6	931	966	972	26.1	24.4	24.6	723.1	7,997.4	235.4	760.5	0.95	0.96	0.95	50.08
7/23/2015	12:02:00 AM	459.1	461.7	457.7	8.6	8.3	8.9	1,000	1,032	1,045	25.7	24.4	24.0	776.5	8,010.3	252.4	816.5	0.95	0.96	0.95	50.09
7/23/2015	12:03:00 AM	459.4	462.6	458.4	8.7	8.4	9.0	999	1,029	1,045	25.6	24.4	23.8	776.2	8,023.3	252.7	816.4	0.95	0.96	0.95	50.07
7/23/2015	12:04:00 AM	459.3	462.5	458.2	8.8	8.5	9.1	1,001	1,031	1,046	25.7	24.4	23.9	777.2	8,036.2	253.4	817.5	0.95	0.96	0.95	50.06
7/23/2015	12:05:00 AM	459.7	462.9	458.8	8.8	8.5	9.1	1,003	1,032	1,047	25.6	24.4	23.9	779.3	8,049.2	254.0	819.7	0.95	0.96	0.95	50.06
7/23/2015	12:06:00 AM	460.8	463.4	459.8	8.8	8.5	9.1	1,004	1,035	1,045	25.6	24.4	24.1	781.3	8,062.2	254.6	821.8	0.95	0.96	0.95	50.05
7/23/2015	12:07:00 AM	462.0	463.2	460.2	8.7	8.4	9.0	1,007	1,039	1,041	25.3	24.2	24.3	782.6	8,075.3	254.9	823.2	0.95	0.96	0.95	50.05
7/23/2015	12:08:00 AM	460.6	461.7	458.9	8.8	8.4	9.1	1,012	1,042	1,044	25.2	24.1	24.1	783.2	8,088.3	255.4	823.8	0.95	0.96	0.95	50.07
7/23/2015	12:09:00 AM	458.9	460.2	457.3	8.9	8.6	9.2	1,017	1,045	1,048	25.0	24.0	24.0	783.2	8,101.4	256.0	824.0	0.95	0.96	0.95	50.04
7/23/2015	12:10:00 AM	458.4	459.7	456.8	8.8	8.5	9.1	1,018	1,046	1,049	25.0	24.0	24.0	783.4	8,114.4	255.7	824.1	0.95	0.96	0.95	50.00
7/23/2015	12:11:00 AM	458.7	460.1	457.0	8.7	8.4	9.0	1,017	1,045	1,048	25.0	24.0	24.0	783.1	8,127.5	255.2	823.7	0.95	0.96	0.95	50.02
7/23/2015	12:12:00 AM	458.0	459.2	456.2	8.8	8.5	9.1	1,017	1,045	1,048	25.0	24.0	24.0	781.8	8,140.5	254.9	822.4	0.95	0.96	0.95	49.99
7/23/2015	12:13:00 AM	456.9	458.2	454.9	8.7	8.3	9.0	1,019	1,046	1,050	25.1	24.1	24.1	781.2	8,153.5	253.9	821.5	0.95	0.96	0.95	49.99
7/23/2015	12:14:00 AM	456.3	457.6	454.4	8.7	8.5	9.1	1,021	1,049	1,052	25.1	24.0	24.0	781.9	8,166.6	254.4	822.3	0.95	0.96	0.95	49.98
7/23/2015	12:15:00 AM	456.0	457.3	454.1	8.8	8.5	9.1	1,024	1,051	1,053	25.0	24.0	24.0	783.0	8,179.6	255.0	823.5	0.95	0.96	0.95	49.98
7/23/2015	12:16:00 AM	456.5	457.9	454.9	8.2	8.0	8.5	944	969	969	25.5	24.3	24.7	721.5	8,191.6	234.7	758.8	0.95	0.96	0.95	50.00
7/23/2015	12:17:00 AM	460.5	461.7	459.4	5.4	5.3	5.7	539	567	545	27.9	25.1	28.1	417.0	8,198.6	135.7	438.6	0.95	0.96	0.94	50.00
7/23/2015	12:18:00 AM	459.8	460.9	458.7	5.8	5.7	6.1	605	633	615	27.3	25.0	27.1	468.0	8,206.4	151.4	492.0	0.95	0.96	0.94	49.99
7/23/2015	12:19:00 AM	459.5	460.7	458.3	5.8	5.8	6.2	605	634	615	27.3	25.0	27.1	468.2	8,214.2	151.5	492.1	0.95	0.96	0.94	50.00
7/23/2015	12:20:00 AM	459.3	460.6	458.1	5.9	5.8	6.2	605	634	616	27.3	25.0	27.2	468.2	8,222.0	151.5	492.2	0.95	0.96	0.94	50.00

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			% ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum		Sum	Sum	L1	L2	L3	
7/23/2015	12:21:00 AM	458.9	460.2	457.7	5.9	5.8	6.2	606	635	617	27.3	25.0	27.1	468.4	8,229.8	151.4	492.3	0.95	0.96	0.94	49.97
7/23/2015	12:22:00 AM	459.6	460.7	458.4	5.5	5.5	5.8	561	588	568	27.6	25.2	27.6	433.7	8,237.0	140.1	455.8	0.95	0.96	0.94	49.94
7/23/2015	12:23:00 AM	459.1	460.3	457.8	5.7	5.6	6.0	550	577	557	27.6	25.1	27.7	424.5	8,244.1	137.8	446.4	0.95	0.96	0.94	49.94
7/23/2015	12:24:00 AM	459.5	460.7	458.2	5.5	5.5	5.8	550	578	558	27.7	25.2	27.8	425.5	8,251.2	137.7	447.3	0.95	0.96	0.94	49.94
7/23/2015	12:25:00 AM	459.2	460.4	457.9	5.4	5.4	5.7	551	579	559	27.7	25.2	27.7	426.0	8,258.3	137.9	447.8	0.95	0.96	0.94	49.91
7/23/2015	12:26:00 AM	458.6	459.9	457.4	5.4	5.3	5.7	552	579	559	27.7	25.2	27.7	426.2	8,265.4	137.7	447.9	0.95	0.96	0.94	49.89
7/23/2015	12:27:00 AM	458.7	459.9	457.5	5.4	5.3	5.7	552	578	558	27.6	25.2	27.7	425.6	8,272.5	137.5	447.4	0.95	0.96	0.94	49.89
7/23/2015	12:28:00 AM	458.6	459.8	457.5	5.5	5.4	5.8	552	578	559	27.6	25.2	27.7	425.6	8,279.6	137.7	447.4	0.95	0.96	0.94	49.90
7/23/2015	12:29:00 AM	457.5	458.9	456.9	5.6	5.4	5.9	554	577	562	27.4	25.3	27.3	425.4	8,286.7	138.2	447.3	0.95	0.96	0.94	49.89
7/23/2015	12:30:00 AM	457.7	459.2	457.1	5.6	5.5	5.9	554	577	562	27.4	25.3	27.3	425.7	8,293.8	138.3	447.7	0.95	0.96	0.94	49.87
7/23/2015	12:31:00 AM	458.4	459.9	457.8	5.4	5.3	5.7	553	575	560	27.4	25.4	27.4	425.4	8,300.9	137.4	447.1	0.95	0.96	0.94	49.87
7/23/2015	12:32:00 AM	457.3	458.8	456.6	5.9	5.7	6.2	624	648	635	27.1	25.2	26.8	479.4	8,308.9	154.4	503.7	0.95	0.96	0.95	49.89
7/23/2015	12:33:00 AM	456.3	457.8	455.4	6.7	6.5	7.0	723	749	740	26.6	24.9	25.9	555.0	8,318.1	179.0	583.2	0.95	0.96	0.95	49.93
7/23/2015	12:34:00 AM	456.6	458.1	455.8	6.8	6.6	7.1	723	748	740	26.6	25.0	25.9	555.1	8,327.4	179.3	583.4	0.95	0.96	0.95	50.01
7/23/2015	12:35:00 AM	456.8	458.3	456.1	6.8	6.6	7.1	723	747	740	26.6	25.1	25.8	555.0	8,336.6	179.1	583.2	0.95	0.96	0.95	50.03
7/23/2015	12:36:00 AM	456.7	458.3	456.2	6.8	6.7	7.2	723	747	739	26.6	25.0	25.9	554.8	8,345.9	179.2	583.1	0.95	0.96	0.95	50.05
7/23/2015	12:37:00 AM	456.7	458.3	456.2	6.9	6.7	7.2	722	746	739	26.6	25.1	25.8	554.4	8,355.1	179.2	582.7	0.95	0.96	0.95	50.05
7/23/2015	12:38:00 AM	455.9	457.6	455.6	7.0	6.8	7.3	723	747	741	26.5	25.0	25.6	554.5	8,364.3	179.5	582.9	0.95	0.96	0.95	50.04
7/23/2015	12:39:00 AM	455.1	456.7	454.6	7.0	6.8	7.3	725	748	744	26.5	25.1	25.6	554.6	8,373.6	179.6	583.0	0.95	0.96	0.95	50.01
7/23/2015	12:40:00 AM	454.0	455.8	453.6	7.0	6.8	7.3	726	749	746	26.5	25.1	25.5	554.5	8,382.8	179.8	583.0	0.95	0.96	0.95	49.98
7/23/2015	12:41:00 AM	449.1	451.4	448.7	8.8	8.6	9.1	1,017	1,031	1,042	25.0	24.3	23.9	761.8	8,395.5	249.5	801.6	0.95	0.95	0.95	49.94
7/23/2015	12:42:00 AM	445.5	448.2	445.1	10.0	9.7	10.3	1,210	1,218	1,238	23.9	23.7	22.9	897.2	8,410.5	295.8	944.7	0.95	0.95	0.95	49.94
7/23/2015	12:43:00 AM	444.5	447.3	444.2	10.0	9.7	10.3	1,214	1,222	1,242	23.9	23.7	22.9	898.5	8,425.5	295.7	945.9	0.95	0.95	0.95	49.91
7/23/2015	12:44:00 AM	448.3	450.5	448.0	7.8	7.6	8.1	845	864	866	25.8	24.4	24.9	632.3	8,436.0	207.7	665.6	0.95	0.95	0.95	49.91
7/23/2015	12:45:00 AM	451.8	453.4	451.5	5.9	5.9	6.3	575	602	589	27.5	25.2	26.6	438.4	8,443.3	142.9	461.1	0.95	0.96	0.94	49.92
7/23/2015	12:46:00 AM	452.6	454.3	452.4	5.7	5.7	6.1	559	585	573	27.9	25.4	27.2	426.5	8,450.4	139.9	449.1	0.95	0.95	0.94	49.93
7/23/2015	12:47:00 AM	455.9	457.7	455.9	2.9	2.9	3.1	224	237	222	37.0	35.2	42.2	169.7	8,453.2	57.7	180.1	0.90	0.92	0.88	49.94
7/23/2015	12:48:00 AM	455.3	457.1	455.3	3.4	3.4	3.7	271	286	270	29.8	26.7	31.1	206.1	8,456.7	69.7	217.7	0.95	0.95	0.94	49.96
7/23/2015	12:49:00 AM	456.0	457.8	456.0	3.4	3.4	3.7	271	285	269	29.9	26.7	31.2	206.1	8,460.1	69.6	217.6	0.95	0.95	0.94	50.00
7/23/2015	12:50:00 AM	456.3	458.0	456.2	3.3	3.4	3.6	271	285	269	29.8	26.8	31.4	206.1	8,463.5	69.6	217.6	0.95	0.95	0.94	50.02

Annexures

Date	Time	Voltage (Line)			%VTHD			Current (Line)			%ATHD			kW	kWh	kVAr	kVA	PF Line1			Hz
		L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3	Sum	Sum	Sum	Sum	L1	L2	L3	
7/23/2015	12:51:00 AM	456.4	458.1	456.3	3.3	3.3	3.6	271	285	269	29.7	26.7	31.2	206.1	8,467.0	69.6	217.6	0.95	0.95	0.94	50.06
7/23/2015	12:52:00 AM	457.3	459.1	457.3	3.2	3.3	3.5	270	285	268	29.8	26.8	31.3	206.1	8,470.4	69.6	217.6	0.95	0.95	0.94	50.08
7/23/2015	12:53:00 AM	457.1	458.9	457.1	3.2	3.3	3.5	270	285	268	29.8	26.7	31.3	206.1	8,473.8	69.6	217.6	0.95	0.95	0.94	50.09
7/23/2015	12:54:00 AM	456.2	458.0	456.2	3.3	3.3	3.6	270	285	268	29.7	26.6	31.1	205.7	8,477.3	69.2	217.1	0.95	0.95	0.94	50.08
7/23/2015	12:55:00 AM	455.8	457.6	455.8	3.4	3.4	3.7	270	285	268	29.6	26.6	31.1	205.7	8,480.7	69.2	217.0	0.95	0.95	0.94	50.10
7/23/2015	12:56:00 AM	455.4	457.1	455.4	3.3	3.3	3.6	271	285	269	29.5	26.5	31.0	205.7	8,484.1	69.0	217.0	0.95	0.96	0.94	50.09
7/23/2015	12:57:00 AM	455.3	457.1	455.4	3.4	3.4	3.6	271	284	269	29.5	26.6	30.9	205.7	8,487.6	69.0	217.0	0.95	0.95	0.94	50.04
7/23/2015	12:58:00 AM	454.6	456.3	454.6	3.3	3.3	3.6	271	285	269	29.5	26.6	30.8	205.6	8,491.0	68.9	216.9	0.95	0.96	0.94	50.02
7/23/2015	12:59:00 AM	454.4	456.2	454.5	3.3	3.3	3.6	271	285	270	29.5	26.6	30.8	205.7	8,494.4	68.9	217.0	0.95	0.96	0.94	50.00
7/23/2015	1:00:00 AM	454.3	456.1	454.4	3.3	3.3	3.6	271	285	270	29.5	26.5	30.8	205.7	8,497.8	68.9	217.0	0.95	0.96	0.94	49.99
7/23/2015	1:01:00 AM	454.9	456.6	454.8	3.5	3.5	3.8	318	334	319	29.3	26.4	30.5	242.2	8,501.9	80.3	255.3	0.95	0.96	0.94	49.99
7/23/2015	1:02:00 AM	451.9	453.7	451.6	5.8	5.7	6.2	560	586	573	27.6	25.2	26.8	426.9	8,509.0	139.0	449.0	0.95	0.96	0.94	50.01
7/23/2015	1:03:00 AM	451.9	453.6	451.7	5.9	5.8	6.2	561	586	575	27.5	25.2	26.8	427.8	8,516.1	139.4	450.0	0.95	0.96	0.94	50.02
7/23/2015	1:04:00 AM	452.0	453.6	451.8	5.8	5.7	6.2	562	587	574	27.5	25.1	26.8	427.9	8,523.3	139.3	450.0	0.95	0.96	0.94	50.03
7/23/2015	1:05:00 AM	451.9	453.4	451.6	5.9	5.8	6.3	562	587	574	27.5	25.2	26.9	427.9	8,530.4	139.6	450.1	0.95	0.96	0.94	50.02
7/23/2015	1:06:00 AM	451.9	453.5	451.6	5.5	5.5	5.9	524	548	534	28.1	25.7	28.3	398.1	8,537.0	130.3	419.1	0.95	0.95	0.94	50.01
7/23/2015	1:07:00 AM	457.7	459.5	457.5	1.3	1.3	1.5	2	3	11	4.5	6.4	173.0	1.9	8,537.0	2.8	4.3	0.04	0.05	0.22	50.00
7/23/2015	1:08:00 AM	457.9	459.6	457.7	1.4	1.3	1.5	-	-	10	-	-	178.8	0.5	8,537.1	2.6	2.6	-	-	0.19	49.98
7/23/2015	1:09:00 AM	457.5	459.2	457.4	1.4	1.4	1.6	0	0	10	-	2.0	178.0	0.6	8,537.1	2.5	2.8	0.01	0.02	0.20	49.97
7/23/2015	1:10:00 AM	452.5	454.1	452.4	4.8	4.8	5.1	444	464	449	29.3	26.6	29.3	337.4	8,542.7	110.5	355.2	0.95	0.95	0.94	50.01
7/23/2015	1:11:00 AM	457.4	459.1	457.3	1.5	1.5	1.7	16	18	22	4.5	8.2	122.9	12.3	8,542.9	5.8	14.8	0.07	0.09	0.18	49.99
7/23/2015	1:12:00 AM	189.0	189.8	189.0	0.5	0.5	0.6	-	-	0	-	-	4.2	0.0	8,542.9	0.0	0.0	-	-	0.00	20.82