

Tamil Nadu News Print and Papers Limited

GENERAL INFORMATION

Tamil Nadu Newsprint and Papers limited "TNPL" building situated at 67, Mount Road Guindy, Chennai, 600 032 is the Corporate office building of TNPL, manufacturer of Printing/ Writing and Newsprint paper having factory at Kagithapuram, Karur (Dt), TN.

BUILDING FLOOR AREA DATA:

The building consists of G+6 floors and 2 Basement floors. The Sq.Ft. area of each floor is as under,

Ground Floor	-	8256 sq.ft.
1 st Floor	-	8209 sq.ft.
2 nd Floor	-	8156 sq.ft.
3 rd Floor	-	8156 sq.ft.
4 th Floor	-	8156 sq.ft.
5 th Floor	-	8156 sq.ft.
6 th Floor	-	7610 sq.ft.
1 st Basement	-	9003sq.ft.
2 nd Basement	-	7027sq.ft.

OCCUPANTS:

TNPL occupied areas in 4th, 5th, 6th floors and part of Ground floor. TNPL had rented / leased its 1st, 2nd, 3rd floors and part of Ground floor to a multinational company M/s Ford Business Services Center.

ELECTRICAL SYSTEM:

The power supply from TNEB was availed through 11 KV feeder with sanctioned demand of 1000 KVA on 30.06.1995. The building was occupied in the month of December 1995. The sanctioned demand was reduced to 800 KVA on 29/05/1998 upon review based on actual requirement during 1996 & 1997. The Maximum Demand during the period 1998-2002 (upto the month) is 640 KVA. For measurement of actual energy consumption by TNPL and FBSC (Tenant) 12 Nos of sub-meters were provided at various locations.

ENERGY AUDIT :

As per The State Electricity Board Statutory Energy Audit TNPL conducted mandatory Energy Audit through our In-house Registered Energy Auditors in the year 2003. Some of the proposals are as follows:

- a) Energy Saver in Lighting Circuit 120KVA rated
- b) Performance Evaluation and Improvement in Central Air Conditioning Plant of 270TR capacity.
- c) Using Electronic Ballast in place of conventional chokes for Fluorescent of 300Nos and
- d) Replacing Fluorescent Lamps with Compact Fluorescent Lamps of 40Nos.

The performance Evaluation of the Central Air Conditioning plant was performed by M/s Central Scientific Instruments Organisation (CSIO), The Govt. of India organisation. M/s CSIO have submitted a suggestion report on their observation

All the proposals indicated in the Energy Audit have been implemented in a phased manner considering some of suggestions of M/s CSIO.

CONNECTED LOAD DETAILS:

ELECTRICAL DISTRIBUTION:

Power is received through a 11 KV feeder from TNEB and stepped down to 415 Volts along with associated switch gear. The 415 Volts supply is connected to a MV Panel and the individual feeders are connected to major loads.

In order to have an uninterrupted power supply to the TNPL building during power cuts and any breakdowns in TNEB supply, 1 No. of 750 KVA, 415 Volts Diesel Generator set has been installed and connected to a 415 Volts DG panel.

Interconnection between DG Panel and the MV Panel is made through a bus-coupler.

M/s Ford Business Services Centre have installed a 30 KVA DG set to meet out the emergency power requirements for their systems exclusively and connected through a change over panel.

MAJOR ELECTRICAL INSTALLATIONS:

I TRANSFORMER

SL.NO.	MAKE	MAKERS	SL.NO.	KVA	VOLTAGE RATIO
01	Vijay Electricals	Vijay Electricals Hyderabad	217026	1500	11KV/433 volts

II. LIST OF DIESEL GENERATOR

SL.NO.	MAKE	MAKERS	SL.NO.	KVA	VOLTAGE RATIO
01	STAMFORD Electrical Ltd., Ahmedabad	CG NEWAGE	95030027	750	415
02	AVK-SEG & Control	AVKC	30-427	30	415

III. LIST OF MV MOTORS / EQUIPMENT

SL.NO.	EQUIPMENT	CAPACITY (KW)		VOLTAGE (V)
01	AC Compressor motor	110	(2 Nos)	380
02	AC Compressor motor	55	(2 Nos)	380
03	Fire Service Booster Pump	75	(1 No)	415
04	Fire Service Jockey Pump	11	(1 No)	415
05	Chill water pump 1	15	(3 Nos)	415
06	Dust exhaust blower fan 1	7.5	(2 Nos)	415
07	Drinking water pump 1	3.7	(2 Nos)	415
08	Generator cooling water pump	7.5	(2 Nos)	415
09	Generator cooling tower fan	2.2	(1 No)	415
10	Compressor station cooling fan	2.2	(9 Nos)	415
11	AHU Motor	5.5	(5 Nos)	415
12	AHU Motor	3.7	(19 Nos)	415
13	Blower	0.75	(7 Nos)	415
14	Condenser fan 1	0.375	(14 Nos)	415

**IV. LIST OF MV MOTORS IN
KVA RATING****TOTAL NO. OF MV MOTORS**

a) Upto and inclusive of 5 KVA	52
b) Above 5 KVA and inclusive of 50 KVA	19
c) Above 50 KVA	5

V. TOTAL NO. OF MOTORS AND TOTAL CONNECTED LOAD

a) Total No. of MV Motors	76
Total connected load of all MV Motors	696.50 KW
b) Total No. of LV Motors	11
Total connected load of all LV Motors	14.86KW
<u> </u> Total LV load	91.0 KW

VI. LIST OF CAPACITORS

SL.NO.	NO. OF CAPACITOR BANK	CAPACITY IN KVAR	VOLTAGE
01	1	300 (6 x 50)	440
02	1	36 (4 x 9)	440
03	1	36 (4 x 9)	440
04	1	17 (7 + 10)	440
05	1	17 (7 + 10)	440
06	--	6	440
07	--	6	440
08	--	6	440
09	--	24 (2 x 12)	440
10	--	63 (3 x 21)	440
TOTAL		511 KVAR	

VII. LIGHTING LOAD

SECTION	TOTAL LOAD IN KW	VOLTAGE
TNPL Building	207.2	230

VIII. NEON SIGNS

01	Transformers	6 Nos.	230/6000 V	450 VA
02	Neon sign lamps	2 Nos.	2.7 KVA	6 x 450 VA
03	Transformers	6 Nos.	250/7500 V	450 VA

IX. LIST OF LIFTS:

SL.NO.	EQUIPMENT	CAPACITY (KW)	VOLTAGE (V)
<u>I. LIFT 'A' - No.12045</u>			
01	Main Motor	17	415
02	Fan Motor	0.08	220
03	Door Motor	0.01	(DC) 220
<u>I. LIFT 'B' - No.12046</u>			
04	Main Motor	17	415
05	Fan Motor	0.08	220
06	Door Motor	0.01	(DC) 220