

LOAD FLOW ANALYSIS

INPUT REQUIREMENT CHECKLIST

COMPILED BY

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Let's Build a Safer Electrical World

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Disclaimer:

This checklist is a guidance tool compiled from common electrical design practices and widely accepted industry standards. It outlines typical information required for electrical studies. Actual project requirements may vary based on the nature and scope of work.

REQUIRED INPUT LIST

<i>Sr. No</i>	<i>Documents/Data</i>	<i>Known/ Available</i>	<i>Unknown/ Unavailable</i>
1.	Key Single Line Diagram	☐	☐
2.	Metering & Protection Diagram	☐	☐
3.	Plant Operating Philosophy (Normal / Critical / DG Mode) and cases for minimum & maximum power flow conditions	☐	☐
4.	NGR Detail	☐	☐
5.	Utility Supply Parameters (Voltage, Cable/Line)	☐	☐
6.	Minimum & maximum fault current with X/R ratio	☐	☐
7.	Circuit Breaker Min & Max Operating time Tolerance (Vendor Manual/Catalogue)	☐	☐
8.	Transformer Vendor Datasheet	☐	☐
9.	Transformer Tap Position	☐	☐
10.	Generator Vendor Datasheet, Make, Model, Alternator Details etc	☐	☐
11.	UPS / Inverter Vendor Datasheet	☐	☐
12.	APFC Vendor Documents	☐	☐
13.	Filters / Harmonic Mitigation Equipment	☐	☐
14.	Motor Vendor Datasheet	☐	☐
15.	Circuit breaker / Switchgear ratings such as fault current carrying capacity, normal current capacity, and thermal withstand and opening time of LV and HV circuit breakers.	☐	☐
16.	Electrical Load List	☐	☐
17.	Any other data relevant for the study	☐	☐
18.	Electrical Cable Schedule	☐	☐
19.	Vendor Cable Datasheet	☐	☐
20.	Template for Reports (Native File)	☐	☐

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If any required data is not available, we will coordinate with your team to obtain it. In cases where information remains unknown, it will **not** be ignored. Instead, we will incorporate it using **conservative assumptions** grounded in **sound engineering judgement**, and clearly highlight these in our documentation wherever relevant