

## Naman Agarwal

Delhi NCR

C: +91-7506565893 | 8527025241 | [naman.agarwal25@outlook.com](mailto:naman.agarwal25@outlook.com) | <https://www.linkedin.com/in/namanagarwal25/>

### BACKDROP:

A committed engineer and a seasoned professional adept at power substations and solar plants designing. Working with EPC majors for nearly 4 years, I find myself capable of handling projects and tenders simultaneously with track record of on-time submission. On top of that, I was being a meritorious student who secured 1st division with Honors in graduation, qualified GATE and got my research paper published in IEEE as a first author in post graduation.

### PROFESSIONAL MILIEU:

#### SunSource Energy – Solar Project Developer and EPC

- ❖ Deputy Manager – Engineering | Noida | Dec 2019 – Current
  - a. AC side of solar plants which consists of LT & HT panels SLD, AC Earthing, substation switchyard designing, power transmission BOQ etc.
  - b. DC side of solar plants which includes panels sizing, layout preparation, shadow analysis, AC and DC voltage drop calculation, DC earthing, lightning protection, PVSyst etc.
  - c. Power Electronics based topologies in Battery Energy Storage Systems (BESS)

#### KEC International Limited, RPG Group Company – Power Transmission and Distribution

- ❖ Assistant Manager – Engineering Services | Gurgaon | July 2016 – Dec 2019 (3.5 Years)

Engineering of power transmission and distribution systems principally the AIS and GIS substations up to 765kV. Competent in the following skills to handle tenders and projects:

#### **Primary Engineering:**

- a. To develop SLD, EKD, plan, section, clearance & trench layout etc for all bus bar schemes up to 400kV.
- b. Earthing design as per IEEE 80. Switchyard and building lightning protection as per Dr. Razevig method and IS 2309 respectively.
- c. Bus Bar sizing as per IEEE 605, power & control cables estimation, erection/terminal connector items estimation.
- d. Examining of primary equipments offers received from vendors like AIS type LA, CVT, WT, CT, CB, DS/ES, ICT, Reactor, 400/220/132/66/33kV GIS, 33/11kV Switchgear panels etc

#### **Secondary Engineering:**

- a. To comprehend protection SLD.
- b. Examining vendor offers on Control and protection system on the basis of P-SLD and technical specification.
- c. Examining vendor offer on substation automation system (SAS)/SCADA as per IEC 61850 & TS.

#### **Auxiliary System Engineering:**

- a. AC/DC LT SLD and feeders estimation of ACDB, DCDB, Main DB, Lighting DB and Emergency Lighting DB
- b. Battery Sizing
- c. Illumination system of indoor, switchyard and street

#### **Core Competencies:**

- a. Aluminum tube bus bar sizing
- b. Direct Stroke Lightning Protection
- c. LT AC/DC Switchgear

## RÉSUMÉ

### Other Responsibilities:

- To visit substation sites during tendering.
- To attend cross functional team meetings in tenders and projects.
- To discuss matters with civil and mechanical engineering departments to ease the BOQ estimation.

### Worked in the following projects:

- Substation Package SS04 | Client: PGCIL  
400/220kV (New) Gas Insulated Switchgear (GIS) Pooling station at Banaskantha (Radhanesda), Gujarat
- Substation Packages ARP-SS-03 | Client: PGCIL  
132/33 kV AIS Substations at Naharlagun, Holongi, Sagali, Banderdewa and Chimpu in Arunachal Pradesh

### Worked independently in multiple tenders (pre-bidding) for various utilities:

#### A. Domestic:

- PGCIL – 400/220kV Kasargode SS
- AP TRANSCO – 400/220/132kV C-Peta
- GETCO – 220/33kV Radhanesda SS
- JUSNL – 132/33kV BishnugarhSS
- BSES – 66/11kV BRPL & BYPL SS

#### B. International

- DPTSC, Myanmar – 220/66/11kV SS
- PGCB, Bangladesh – 132/33kV Package 4.1
- NWPGCL, Bangladesh – 220kV South Khulna SS
- NEA, Nepal – 220/132/33kV Hetauda & Inaruwa SS

#### C. Private

- Sterlite – 400/132/33kV Surajmaninagar SS
- Maruti Suzuki – 220/11kV Manesar SS

### ACADEMIA:

Qualifications	Year	University/College/Board	Specialization	CGPA / %age
M. Tech	2014-2016	Sardar Patel College of Engineering, Mumbai	Power Electronics & Power Systems	9.47
B. Tech	2010-2014	Jamia Millia Islamia, New Delhi	Electrical Engineering	9.20
HSC	2010	John Milton Public School, Agra (CBSE)	Physics, Chemistry, Maths	77.7 %
SSC	2008	Dayanand Bal Mandir, Agra (CBSE)	English, Maths, Science	80.0 %

### ACADEMIC PROJECTS:

#### o M. Tech Thesis with Hardware Development

**Dissertation:** SPV Array based BLDC motor for fans in Indian Railways Using MPPT Algorithm.

**Hardware:** Successfully developed a compact and inexpensive controller for Brushless DC Motors used in fans of trains of Indian Railways using IC MC33035 and IC MC33039 having open loop and closed loop control.

### SALIENT ACCOMPLISHMENT:

- M. Tech research paper titled "Solar photovoltaic array based brushless DC motor for fans in Indian railways using maximum power point tracking algorithm" was selected in 39<sup>th</sup> **IEEE National Systems Conference 2015**, Noida and consequently published in IEEE Xplore | <https://ieeexplore.ieee.org/document/7489122/>  
Electronic ISBN: 978-1-4673-6829-2 | DOI: 10.1109/NATSYS.2015.7489122

## RÉSUMÉ

### VALUE ADDED CERTIFICATIONS:

- 1) Power Transformer and Reactor at CG Power & Industrial Solutions Ltd., Mumbai
- 2) Real Time Simulation, PSIM, PSCAD and SaberRD at IIT Bombay
- 3) ETAP at Aker Powergas Pvt. Ltd., Mumbai

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### FEATURED SOFTWARE ASSETS:

1. Simulations in Matlab Simulink
2. MS Office
3. PVSyst
4. AutoCad

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### PERSONAL SKILLS:

Pragmatic  
High Emotional Quotient

Technical Expertize  
Insight of Softwares

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### PERSONAL INFO:

DOB: 25/11/1992

Marital Status: Single

Father's Name: Mr. Hariom Agrawal

Mother's Name: Mrs. Sangita Agarwal

*I hereby declare that the above written particulars are true to the best of my knowledge and belief.*

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