Curriculum Vitae (CV)

Position Title and No.:	**Transmission Design Engineer**
Name of Expert:	**Samir Kumar Deb**
Date of Birth:	20/08/1948
Country of Citizenship/Residence	Indian

Education:
- Awarded BEE Degree in Electrical Engineering by Jadavpur University (India) in July 1975.

Other Training
- No

Employment record relevant to the assignment:

Period:	Employing Organization: Title of Position held: Type of Employment: For Reference:	Country	Summary of Activities Performed Relevant to the Assignment:
Year 1976 to 1978	Post & Telegraph Deptt. Govt. of India. Junior Engineer Electrical.	India	Installation of new Telephone Exchange in Kolkata under Japanese collaboration. The Exchange adopted X-bar technology which was the latest technology in Telecommunication Engineering at that time. Additional responsibility: Erection, operation & maintenance of automated Central Air conditioning plant of the Telephone Exchange housed in a high rise building.
Year1978 to 2008	Operation and maintenance of EHV Substations & Transmission Lines in WBSETCL a Public Utility Company.	India	Design, Planning,Operation, maintenance & renovation of 400kV, 220kV & 132kV Overhead Transmission Lines and substations in various regions of West Bengal, India in the capacity of Assistant Engineer, Divisional Engineer, Superintending Engineer, Dy-Chief Engineer & Additional Chief Engineer in Transmission Wing. Some important Transmission Lines are: - 400kV Jeerat-STPS DC Transmission Line - 400kV Kolaghat- Durgapur, DC Transmission Line - 220 kV Kasba-Jeerat, DC Transmission Line - 220 kV Abagh- Midnapur DC Transmission Line - 132kV Salt Lake-Kasba, SC LILO Line - 132kV How-Liluah DC Transmission Line
Year 1978 to 1983	Assistant Engineer in WBSETCL	India	Operation & maintenance of 33kV substation, construction of micro Hydroelectric power plant.
Year 1983 to 1993	Assistant Engineer in WBSETCL	India	Design, Planning, Operation & maintenance of 132kV, 220kV & 400kV substations, and Transmission Lines. Preventive maintenance & breakdown restoration of Transmission lines.
Year 1993 to 2000	Divisional Engineer in WBSETCL	India	Design, Planning, Operation & maintenance of 132kV, 220kV & 400kV substations, and Transmission Lines. Preventive maintenance & breakdown restoration of Transmission lines. Construction of 132kV, 220kV & 400kV Transmission lines. Construction of 132kV, 220kV & 400kV substations. Office administration.
Year 2000 to	Superintending Engineer,	India	Design, Operation & maintenance of 132kV, 220kV & 400kV

2008	Dy-Chief Engineer and Addl. Chief Engineer in WBSETCL.		substations, and Transmission Lines. Construction of 132kV, 220kV & 400kV Transmission lines. Construction of 132kV, 220kV substations. Office administration. HR Policy, Dealing commercial matters, Tendering, Revenue and capital Budget.
Year 2008 to 2018	Sr. Consultant in SATCON	India	Design, Engineering and Consultancy services for EHV Transmission lines and Substations upto 400kV in India and Abroad.

Membership in Professional Associations and Publications:

- Fellow of the Institution of Engineers (India), FIE.

Language Skills:

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Bengali	Excellent	Excellent	Excellent

Adequacy for the Assignment:

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
Name of project:	***01. 132/33kV, 2x62.5MVA Outdoor substation in Jharkhand, India***
Year:	2008
Location:	Jharkhand, India
Client:	Jindal Steel and Power Limited (JSPL)
Main project. features:	Construction of new 132/33kV AIS Substation.
Position held:	Sr. Engineer
Activities performed:	Complete Engineering and design of 132 / 33 kV, 2 X 62.5 MVA Transformer bays at main receiving station.
Name of project:	**02. *132/33kV GIS substation in Jharkhand, India***
Year:	2010
Location:	India
Client:	TATA STEEL LIMITED
Main project. features:	Construction of new 132/33kV GIS Substation.
Position held:	Sr. Engineer
Activities performed:	Detail engineering services for 4.0 MTPA- Noamundi and Joda Mines expansion project lines. Review of Transmission Line Route Plan. Selection of Transmission Line Towers. Calculating Sag & Tension Calculation at Transmission Towers.
Name of project:	***03. 400kV Outdoor substation of PGCIL in Punjab, India***
Year:	2011
Location:	Punjab, India
Client:	Power Grid Corporation of India Ltd.
Main project. features:	Construction of 400kV Bus reactor bay extension at four different Substations.
Position held:	Sr. Consultant
Activities performed:	Complete Engineering and design of 400kV bus reactor bays at Amritsar, Hissar, Nalagarh and Jalandhar Substations.
Name of Project	***04.* 132/33kV Outdoor substation in Tripura, India**
Year:	2011
Location:	India
Client:	Tripura State Electricity Co. Ltd.

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
Main project. features: **Position held:** **Activities performed:**	Construction of new 132/33kV AIS Substation. Sr. Consultant Complete Engineering and design of the transmission line tower selection, Sag & Tension Calculation & Stringing Chart, Conductor Selection calculation
Name of project: **Year:** **Location:** **Client:**	***05. 400/220/132/33kV Outdoor substations in West Bengal,*** 2011 India WBSETCL India
Main project. features: **Position held:** **Activities performed:**	Construction of new 220/132/33kV Substation & Transmission Line Sr. Consultant & Designer Complete Engineering and design of the Substation & design of the transmission line tower selection, Sag & Tension Calculation & Stringing Chart, Conductor Selection calculation.
Name of project: **Year:** **Location:** **Client:** **Main project. features:** **Position held:** **Activities performed:**	06. ***220/132/33kV Outdoor substation in Jharkhand, India*** 2013 Jharkhand, India *JUSNL* Construction of new 220/132/33Kv AIS Substation &132/33KV AIS Substation & HV Transmission Line Sr. Consultant & Designer Complete Engineering and design of the Substation & design of the transmission line tower selection, Sag & Tension Calculation & Stringing Chart, Conductor Selection calculation.
Name of project: **Year:** **Location:** **Client:** **Main project. features:** **Position held:** **Activities performed:**	*07. 132/33kV GIS substation in Jharkhand, India* 2015 Jharkhand, India Steel Authority Of India Ltd (SAIL) Construction of new 132/33Kv GIS & HV Transmission Line Sr. Consultant & Designer Complete Engineering and design of the Substation & design of the transmission line tower selection, Sag & Tension Calculation & Stringing Chart, Conductor Selection calculation.
Name of project: **Year:** **Location:** **Client:** **Main project. features:** **Position held:** **Activities performed:**	*08.* ***220/20kV and 110/20kV Outdoor substations in Afghanistan*** 2014 Kabul &Logar Provinces and Kandahar Provinces, Afghanistan US Army Corps of Engineers. Construction of new 220/22KV AIS Substation & 110/22Kv AIS Substation. Sr. Consultant Complete Engineering and design of the project performed under SATCON, deputed by Assist Consultants Inc.
Name of project: **Year:** **Location:** **Client:** **Main project. features:** **Position held:** **Activities performed:**	***09. 132/33kV GIS substation in Orissa, India*** 2015 Odisha, India Odisha Power Transmission Corporation Limited Construction of 2x20MVA, 132/33kV Substations. Sr. Consultant & Designer Complete Engineering and design of the Substation & design of the transmission line tower selection, Sag & Tension Calculation & Stringing Chart, Conductor Selection calculation.
Name of project: **Year:** **Location:**	***10. 220/132/33kV Outdoor substation in Jharkhand, India*** 2016 Jharkhand, India

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks	
Client:	JUSNL
Main project. features:	Construction of 220/132/33kV AIS grid station.
Position held:	Sr. Consultant
Activities performed:	Complete Engineering and design of the project performed under SATCON, deputed by Technofab Engineering Ltd, Faridabad, India. Review of Transmission Line Route Plan. Selection of Transmission Line Towers. Calculating Sag & Tension at Transmission Towers.
Name of project:	***11. 220/132/33kV GIS substation in West Bengal, India***
Year:	2016-17
Location:	West Bengal, India
Client:	Godrej & Boyce Mfg. Co. Ltd. / WBSETCL
Main project. features:	Construction of 220/132/33kV GIS grid station & HV Transmission Line
Position held:	Sr. Consultant
Activities performed:	Complete design & engineering (electrical, civil, structural) services for 220/132/33kV GIS grid station at Sagardighi, West Bengal. Selection of Transmission Line Towers. Calculating Sag & Tension at Transmission Towers. Review of Pole foundations.
Name of project:	***12. 132/33kV GIS substation of WBSETCL in West Bengal, India***
Year:	2017-18
Location:	West Bengal, India
Client:	Bajaj Electricals Ltd. / WBSETCL
Main project. features:	Construction of 132/33kV GIS grid station of WBSETCL
Position held:	Sr. Consultant
Activities performed:	Complete design & engineering (electrical, civil, structural) services for 220/132/33kV GIS grid station at Sagardighi, West Bengal. Selection of Transmission Line Towers. Calculating Sag & Tension at Transmission Towers. Review of Pole foundations.
Name of project:	***13. 132/33kV Power Supply System, modernization of SMS-I, India***
Year:	2015
Location:	Bokaro, India
Client:	Steel Authority of India
Main project. features:	Design of HV Transmission Line & 132/33kV GIS Substation
Position held:	Sr. Consultant & Designer
Activities performed:	Review of Transmission Line Route Plan. Selection of Transmission Line Towers. Calculating Sag & Tension at Transmission Towers. Complete design & engineering services for 132/33kV GIS grid station
Name of project:	***14. Upgrade of Freetown Primary Distribution Network***
Year:	2015-2016
Location:	Sierra Leone
Client:	Ministry of Energy (Republic of Sierra Leone)
Main project. features:	MV Transmission Line Distribution & Substation Upgrade
Position held:	Sr. Consultant & Designer
Activities performed:	Transmission Line Design, Conductor Sizing, Supervision of Tower Structure Design, Preparation of Sag &Tension Calculation & Stringing Chart.

Expert's contact information: sk.deb@satcon.in **Phone :** +91-9836205224

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Financer.

SAMIR KUMAR DEB		23/10/2018
Name of Expert	Signature	Date
SATYAKI MUKHERJEE		23/10/2018
Name of authorized Representative of the Consultant (the same who signs the Proposal)	Signature	Date