



Position Title	Sr. General Manager – Design, ISO, Quality Control
Name of Expert	Mr. Samir Kumar Paul
Date of Birth	04.10.1949
Country of Citizenship/ Residence	India

Education:

Educational Institutions	Jadavpur University, India
Dates	1971
Degree(s)/diploma(s) obtained	Bachelor of Electrical Engineering

Educational Institutions	The Institution of Engineers, India
Dates	1977
Degree(s)/diploma(s) obtained	Section B Examination in Mechanical Engineering equivalent to Bachelor of Mechanical Engineering

Employment record:

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
2014 – 2015 & 2017 to Present	Employer: Satcon Position: General Manager	India	- Detail engineering works, Bid evaluation, Tender document review, Design engineering of 400kV, 220kV & 33kV Substations and Transmission Lines. Inspection, site visits. - ISO Quality Management and Assurance. - Project Management services. - Review of drawings & documents. - Monitoring & supervision from erection stage up to operation of Plant.
2011 – 2014 & 2016 – 2017	Employer: Development Consultants Pvt. Ltd. Position: Dy. General Manager	India	Project management service, review of Drawings & documents of 400kV Evacuation System & 132kV Station Power system and MV & LV Aux. Power Distribution system of 2x363.3MW Combined Cycle Gas Turbine Power Station.
2010 – 2010	Employer: Vedant Aluminium Ltd, Odisha Position: Sr. Consultant	India	System study for 9x135MW Captive Power Plant, MV & LV Aux. Power system.
1991 – 2010	Employer: CESC Ltd., Kolkata Position: Sr. Deputy Manager	India	Review of drawings & documents related to 220kV Power Evacuation system of 3x250MW Power Plant.
1984 – 1991	Employer: West Bengal Power Development	India	Complete review of Design of Electrical Power Generation, Aux. System and Evacuation System



Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
	Corporation Ltd. Position: Sr. Engineer		of 3x210MW Thermal Power Project.
1974 – 1984	Employer: West Bengal State Electricity Board Position: Electrical Engineer	India	Review of Complete Electrical system of Power Evacuation, Station Power supply system and Aux. MV & LV Power Distribution system of 4x120MW Thermal Power Plant.

Countries in which He contributed in Projects (other than India):

- Nigeria, Ethiopia, Senegal, Afghanistan.

Membership in Professional Associations and Publications:

- Member of the Institution of Engineers (India), MIE.

Language Skills :

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

Work Experience:

Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	<u>Experience no. 1:</u> Job Title / Description: Design, Engineering and Consultancy services for Sag-Tension & Short Circuit Force calculation, Preparation of Civil Design Basis, Civil & Structural design for 220kV Switchyard of 400MW Solar Power Plant at Fatehgarh, Rajasthan. Location: Rajasthan, India. Position Held: Sr. Consultant – Electrical. Year: 2024 – Ongoing. Client: M/s Sterling & Wilson Renewable Energy Limited, India. <u>Assignment/Activities:</u> Electrical System study, Basic & Detail Design Engineering, Preparation of Project documents, etc.
	<u>Experience no. 2:</u> Job Title / Description: Design, Engineering and Consultancy services for Construction of 220/132kV, 80/100MVA AIS Substation of Himachal Pradesh Power Transmission Corporation Limited at Himachal Pradesh.



Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	Location: Himachal Pradesh, India. Position Held: Sr. Consultant – Electrical. Year: 2024 – Ongoing. Client: M/s Kanohar Electricals Ltd., India. Assignment/Activities: System study, Basic & Detail Design Engineering, Preparation of Electrical drawings & calculations, Cable schedule & Interconnection diagram, etc.
	Experience no. 3: Job Title / Description: Design, Engineering and Consultancy services for Manufacture, Supply and Construction of 2x60MVA, 132/33kV Substation at Birnin-Kudu with 2x132kV Bay Extension at Dutse Substation of Transmission Company of Nigeria. Location: Jigawa State, Nigeria. Position Held: Sr. Consultant – Electrical. Year: 2024 – Ongoing. Client: M/s Sanrouk Engineering Services Limited, Nigeria. Assignment/Activities: System study, Basic & Detail Design Engineering, Preparation of Electrical, Civil & Structural drawings & calculations, Cable schedule & Interconnection diagram, etc.
	Experience no. 4: Job Title / Description: 132/33kV Outdoor Substation at Muhammadu Buhari Industrial Park and 1 no. 132kV Line Bay extension at existing Dadin Kowa Hydro Electric Power Plant Switchyard. Location: Nigeria. Position Held: Sr. Consultant Year: 2021 – 2023. Client: M/s AJF Trading and Mining Company (Nig) Ltd. Assignment/Activities: Detail design & drawing, Procurement assistance, Vendor drawing review and approval, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	Experience no. 5: Job Title / Description: Detail Design & Engineering Services (Electrical, Civil, Structural, Mechanical, Substation Automation, Communication systems), Procurement assistance, Vendor drawing review for 220/132/33kV Outdoor Substation. Location: India. Position Held: Project Manager Year: 2019 – 2020 Client: M/s Flowmore Ltd., India Assignment/Activities: Site visit and Data collection, Detail design & drawing, Procurement assistance,



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	Vendor drawing review and approval, Site contour survey, Geotechnical Investigation, Soil resistivity measurement, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	<u>Experience no. 6:</u> Job Title / Description: Afghanistan Electrical Interconnect, 2/111th Corps Garrison including SOF Facilities ANSF Bases. Extension of 110/20-15kV Pol-E-Charki substation, Breshnakot Substation, North-West substation, 2/111th Corps Garrison. Location: Afghanistan. Position Held: Sr. Consultant & Designer Year: 2018 – 2019 Client: M/s Novin Simia Co., Afghanistan <u>Assignment/Activities:</u> Data collection, Meeting with Client/Contractor at various stages of the Project, Detail design & drawing, Vendor drawing review and approval, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	<u>Experience no. 7:</u> Job Title / Description: 220/132kV, 2x150MVA Grid station at Garhwa of JUSNL in Jharkhand, India Location: India. Position Held: Sr. Consultant & Designer Year: 2017 – 2018 Client: Jakson Ltd., India <u>Assignment/Activities:</u> Site survey, Data collection, Detail design & drawing, Vendor drawing review and approval, Contour survey plan & elevation, Geotechnical Investigation, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	<u>Experience no. 8:</u> Job Title / Description: Construction, Rehabilitation and Reinforcement of 330/132kV and 132/33kV Transmission Substations with 330kV LILO Arrangement of TCN, Nigeria (Lot 2). Location: Nigeria. Position Held: Sr. Consultant & Designer Year: 2017 Client: M/s Supreme & Co. Pvt. Ltd. <u>Assignment/Activities:</u> System study, Detail design & drawing, Vendor drawing review and approval, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	<u>Experience no. 9:</u> Job Title / Description: Electric Power Distribution System for Meli Gold Mining and Processing Plant. Location: Ethiopia.



Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	Position Held: Commissioning Expert. Year: 2017 Client: Ezana Mining Development PLC, Ethiopia in association with Industrial Projects Service, Addis Ababa, Ethiopia Assignment/Activities: Pre-commissioning checks of Electrical & Instrumentation system & commissioning at 35 TPH Meli Gold Processing & Recovery Plant.
	Experience no. 10: Job Title / Description: 1x20MW Captive Power Plant in Senegal. Location: Senegal. Position Held: Electrical Commissioning Engineer Year: 2016 Client: INDORAMA Assignment/Activities: Commissioning of Electrical system of 20MV coal fired Captive Power Plant having CFBC boilers at ICS Indorama, Senegal, West Africa.
	Experience no. 11: Job Title / Description : Installation of 2x500MVA, 400/220kV Transformer bay extension and 1x125MVAR Bus reactor at Maithon, 1x500MVA, 400/220kV Transformer bay extension at Mujaffarpur and 1x160MVA, 220/132kV Transformer bay extension of Ara substation of Power Grid Corporation of India Ltd. Location: India. Position Held: Design & Engineering Manager. Year: 2014 – 2015. Client: Toshiba Transmission & Distribution System (India) Pvt. Ltd. Assignment/Activities: Overall Coordination, Project Management, Construction Management. Business Development.
	Experience no. 12: Job Title / Description : Basic & Detail Engineering Services, Project Management, Site Supervision and Control of Electrical, Civil, Structural, HVAC, Fire Fighting, Plumbing, SCADA, PLC Systems of 132/33kV AIS Substation at Song, Nigeria Location: Nigeria. Position Held: Design & Engineering Manager. Year: 2013 – 2015. Client: M/s Qingdao Wuxiao Group Co. Ltd. & Ahmin Technology & Power Systems Ltd J.V, Abuja, Nigeria. Assignment/Activities: System study, Detail design & drawing, Vendor drawing review and approval, Preparation of As Built drawings and documents, Quality Assurance, Technical



Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	Assistance.
	<u>Experience no. 13:</u> Job Title / Description : Basic & Detail Engineering Services, Project Management, Site Supervision and Control Of Electrical, Civil, Structural, SCADA, PLCC Systems Of 2x132kV Line Bay Extension at existing 330/132kV Yola Substation of TCN, Nigeria Location: Nigeria. Position Held: Design & Engineering Manager Year: 2013 – 2015 Client: M/s Qingdao Wuxiao Group Co. Ltd. & Ahmin Technology & Power Systems Ltd J.V, Abuja, Nigeria <u>Assignment/Activities:</u> System study, Detail design & drawing, Vendor drawing review and approval, Preparation of As Built drawings and documents, Quality Assurance, Technical Assistance.
	<u>Experience no. 14:</u> Job Title / Description: Project Management & implementation supervision Consultancy service of 2x363.3 MW Combined Cycle Power Project. Location: India. Position Held: Dy. General Manager. Year: 2011 – 2014. Client: ONGC Tripura Power Company Ltd., India. <u>Assignment/Activities:</u> Developed Commissioning, Operation & Maintenance Procedures of different system & equipment. Monitoring & supervision from erection stage up to operation of Plant on behalf of the owner.
	<u>Experience no. 15:</u> Job Title / Description: 9 x 135MW Captive Power Plant in Odisha, India. Location: India. Position Held: Power Plant Consultant. Year: 2010. Client: Vedant Aluminium Ltd. Odisha, India. <u>Assignment/Activities:</u> Technical assistance for Fly ash & Bottom ash evacuation by HCSD system.
	<u>Experience no. 16:</u> Job Title / Description: Budge Budge Power Generating Project, India. Location: India. Position Held: Sr. Deputy Manager. Year: 1997 – 2010.



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Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
	Employer: CESC Ltd. Kolkata, India. Assignment/Activities: Commissioning of 250 MW Unit no. 2 at 2x 250 MW Budge Budge Thermal Power Station. Major areas were Transformers, HV & LV Motors, 6.6 KV & 415 V Sw. Gr., MCC, emergency DC system & drives, Switchyard. Maintenance of Electrical system of 2x250 MW Budge Budge Plant.
	Experience no. 17: Job Title / Description: Kasba Gas Turbine Power Generating Plant, India. Location: India. Position Held: Asstt. Manager. Year: 1991 – 1997. Employer: CESC Ltd. Kolkata, India. Assignment/Activities: Operation & maintenance of GE design Frame-52X 20 MW Kasba Gas Turbine Machines.
	Experience no. 18: Job Title / Description: Kolaghat Thermal Power Project, India. Location: India. Position Held: Divisional Engineer. Year: 1984 – 1991 Client: West Bengal Power Development Corporation Ltd., India Assignment/Activities: Commissioning, Operation & Maintenance of 3X210 MW Kolaghat Thermal Power Stations, Stage-1, West Bengal, India. Responsible for maintenance of Electrical system of Main Plant & Coal Handling Plant.
	Experience no. 19: Job Title / Description: 4x120MW Santaldih Thermal Power Project. Location: India. Position Held: Engineer Year: 1974 – 1984 Client: West Bengal State Electricity Board Assignment/Activities: Commissioning, Operation & Maintenance of electrical system of 120MW BHEL make Turbine Generator sets.

Expert's contact information:

E-Mail: info@satcon.in

Phone: +913340628483



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, as and when necessary, 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 Bank.

Mr. Samir Kumar Paul

30/11/2024

Name of the expert

Signature

Date

Satyaki Mukherjee

30/11/2024

Name of the authorized representative of the
Consultant (person who signs the Proposal)

Signature

Date