

PERSONAL RESUME

SUMAN BRAHMA

EMBA IN ENVIRONMENT MANAGEMENT, PG DIPLOMA IN THERMAL POWER PLANT
ENGG, B.TECH IN MECHANICAL ENGG.

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OBJECTIVE:

- ❖ To engineering career growth and achieve competency in power sector and other related industrial domain.
 - ❖ To pursue a challenging career with a progressive organization where I get the opportunity to utilize my knowledge and skills and enhance them both by gaining comprehensive understanding of different aspects of operations in the organization, in conjunction with the aim and objectives of the organization.
 - ❖ To enhance and develop my technical skills & continually learn about the latest paradigm and process on the cutting edge of global competition and technology.
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EDUCATIONAL QUALIFICATION:

- ❖ Completed one year Executive MBA (Distance Learning) in 'Environmental Management' from Indian Management School & Research Centre, Mumbai.
 - ❖ Completed one-year full time Post Graduate Diploma in Thermal Power Plant Engineering from National Power Training Institute, Badarpur (New Delhi) and Durgapur (West Bengal), under Ministry of Power, Government of India in August, 2004.
 - ❖ Completed four year full time Bachelor of Technology in Mechanical Engineering from Kalyani Government Engineering College, under University of Kalyani in June, 2002. Percentage of Marks : 80.96 %.
 - ❖ Completed Higher Secondary (10 + 2) from West Bengal Council for Higher Secondary Education (W.B.C.H.S.E.) in 1997. Percentage of Marks: 73.70 %.
 - ❖ Completed Madhyamik from West Bengal Board of Secondary Education (W.B.B.S.E.). in 1995. Percentage of Marks : 77.44 %.
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WORKING EXPERIENCE: (Total 16+ yrs experience)

Present Employment:

Present Employer : M/S Iwatec Corporation Kolkata, India (Head Office: Nagasaki, Japan)
Designation : Lead Mechanical Engineer (Project Designing and Consultancy)
Period : July 2014 to till date.
Nature of Job : Preparation of P & I Diagrams for Geothermal Power Plants, Biomass Combined Heat & Power (CHP) Plants, Fuel Cell System using Hydrogen Gas. Also involved in Procurement activities for overseas projects of MHPS. Active participation in sending the technical queries to vendors and verification of budgetary offers, preparation of clarification report, co-ordination with vendors (CHP/Biomass project, Geothermal project, Hydrogen Generation project, Fuel Cell project, Solar PV projects etc.)

Iwatec Corporation is an ISO 9001:2015 Japanese MNC, established in 1989. Iwatec's engineering division deals with requirements of power industry; from small co-generation units to large gas and steam turbine plants; from wind turbines to geothermal power generating stations, with most advanced technologies. Iwatec also provides consultancy services to customers in all technical fields of power generation.

- Plant Visit : i) 2 x 500 KW solar PV power project at Kinkai O Hiramachi, Nagasaki, Japan owned by Iwatec Corporation.
ii) 1 x 25 KW Biomass Power Plant at Tosu, Japan
iii) 3 x 2 MW solar PV power project at Sasebo City, Japan owned by Iwatec Corporation.
iv) Storage and Supply Facility of different industrial gases at Air Liquefied, Nagasaki, Japan
v) 1 x 25 KW Sidhu Kanu Solar Park at Ranchi, India
vi) 1 x 135 KW Geothermal project at Kirishima Maruo, Japan owned by Iwatec Corporation
vii) 1 x 1.7 KW Fuel Cell project at Nagasaki, Japan owned by Iwatec Corporation

Details of the Projects Completed :

- i) Worked as a Lead Project Engineer for solar powered, temperature controlled ware houses project at Singur, West Bengal (A project by Kawasaki Rikuso Transportation (KRT), a leading Japanese logistic and warehousing company, Client - West Bengal State Marketing Board).

Responsibilities :

- ❖ Preparation of the basic mechanical input drawings for design consultant
 - ❖ To co-ordinate with the civil design consultant for timely submission of drawings and documents, review the drawings and documents and forward to the civil construction agency
 - ❖ To co-ordinate with the civil contractor agency for ensuring progress of the construction work at site as per approved drawings
 - ❖ To co-ordinate with the site supervisor team for proper monitoring of the construction work and point out any deviation from the approved design document
 - ❖ To co-ordinate with other related vendors as and when required.
 - ❖ To attend meetings with our client KRT and other associated agencies regarding different technical issues.
- ii) Worked as a Lead Mechanical Engineer for Iwatec No. 1 Geothermal Power Plant at Kirishima Maruo, Japan. Review of site data, vendor documents, drawings etc. keeping close contact with head office at Nagasaki.

Details of the Current Project :

Working as a Lead Project Engineer for solar powered, temperature controlled Cold Room project at Nakashipara, West Bengal.

Responsibilities :

- ❖ To co-ordinate with the civil design consultant for preparation of basic design and drawings on the basis of available input from client.
- ❖ To co-ordinate with the civil construction agency for site visit and submission of techno commercial offer for the project.
- ❖ To attend meetings with client and other prospective vendors regarding different technical issues

Previous Employment:

Previous Employer : M/S McNally Bharat Engineering Co. Ltd. (MBECL)

Designation : Manager (Engineering Co-Ordination)

Period : March 2010 to March 2014.

Nature of Job : Engineering Co-ordination and Project management

McNally Bharat Engineering Company Ltd. (MBE), headquartered at Kolkata, is a part of the Williamson Magor Group. It is one of the leading Engineering Companies in India engaged in providing turnkey solutions in the areas of Power, Steel, Aluminium, Material Handling, Mineral Beneficiation, Pyroprocessing, Pneumatic Handling of powdered materials including fly ash handling and high concentrate disposal, coal washing, Port cranes, Cement, Oil & Gas, civic and industrial water supply etc.

Details of the Thermal Power Projects :

- i) 1 X 500 MW PT Plant for Bokaro - A Thermal Power Project of Damodar Valley Corporation Limited, Kolkata, West Bengal.

Responsibilities:

- ❖ To look after Raw Water Intake system and Pre-treatment system (preparation of P&IDs, sizing calculations, Hydraulic calculations etc.)
 - ❖ Development of composite plant layout & piping layout.
 - ❖ To co-ordinate with other engineering departments & consultants regarding inputs and technical deliverables.
 - ❖ To co-ordinate with client, vendors and attend technical meetings for approval of deliverables.
 - ❖ To co-ordinate with Site In charge regarding the progress of work and different technical issues.
 - ❖ To assist PMD & Planning group regarding status of the engineering progress.
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- ii) 2 X 250 MW Balance of Plant (BoP) project for Satpura Thermal Power Station (Unit- 10 & 11) of Madhya Pradesh Power Generating Company Limited (MPPGCL) in the district of Sarni, Jabalpur, Madhya Pradesh.

Responsibilities:

- ❖ To co-ordinate and attend technical meetings with consortium members, consultants, different vendors and other engineering departments regarding different technical issues as well as document approval.
 - ❖ Development of Plot Plan, Water Balance Diagram, P & IDs, LP Piping Layout, Outdoor Cable Trenches Layout etc.
 - ❖ Review of drawings & documents sent by consortium partners and vendors.
 - ❖ To Co-ordinate with site engineers regarding the progress of work and different technical issues.
 - ❖ To assist PMD & Planning group regarding status of the engineering progress.
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Previous Employment:

Previous Employer : M/s Development Consultants Pvt. Ltd (DCPL) Kolkata, India.

Designation : Senior Design Engineer (Mechanical).

Period : June 2008 to January 2010.

Development Consultants is a transnational engineering conglomerate with around 1350 employees and 1600+ major engineering projects completed in 60 countries over its 60 years of adherence to engineering excellence and technological innovation. In India, the DC Group has been an integral part of the nation's development since independence, particularly in the energy sector where it has designed and managed construction of most of India's major thermal and nuclear power plants.

Details of the Thermal Power Projects :

- i) 2 X 500 MW Coal based Greenfield Thermal Power Project of Chhattisgarh State Power Generation Company Limited (CSPGCL) at Marwa in the district of Champa-Janjgir, Chhattisgarh, India.
- ii) 1 X 500 MW Coal based STAGE III Extension of Korba West TPP of Chhattisgarh State Power Generation Company Limited (CSPGCL) at Korba in the district of Korba, Chhattisgarh, India.

Responsibilities:

- ❖ Development of Plot Plan & Water Balance Diagram.
- ❖ Preparation of Technical Specifications of Balance of Plant (BoP) package comprising of Intake Water Transportation System, CW & Back up ACW System, In plant Water Transportation System, LP & LD Piping, Fuel Oil Handling System, Fire Fighting & Protection System, DG Set, EOT Cranes, Hoists, Workshop Equipments, Gas Cylinders.
- ❖ Development of P&I Diagrams of different BoP Systems.

- ❖ Taking active participation in Pre-bid & Post-bid meetings with different vendors and preparing Amendments, checking of Qualifying Requirements (QR), preparing Technical Evaluation Report (TER), Final Resolutions etc.
 - ❖ Review of vendor drawings & documents.
- iii) 2 X 600 MW Coal based Greenfield Thermal Power Project of DB Power Limited at Badadarha in the district of Janjgir-Champa, Chhattisgarh, India.

Responsibilities:

- ❖ Preparation of Technical Specifications for Steam Generator & auxiliaries, Turbine Generator & auxiliaries, Power Cycle Piping, EOT Cranes, Hoists & passenger cum Goods Elevator, DMCW & ACW Systems, DG Sets etc.
- ❖ Development of Tender Drawings.

Previous Employment:

Previous Employer : M/s Jindal Steel & Power limited (J.S.P.L) Raigarh, India.

Designation : Shift Charge Engineer, Power Plant.

Period : June 2006 to June 2008.

Nature of Job : Operation Maintenance & Execution of Thermal Power Plant

JSPL forms a part of the US \$ 17 billion Jindal Group. J.S.P.L is a leading player in steel, power, mining, oil & gas and infrastructure. J.S.P.L having a total generation capacity of 340 MW with individual unit capacity varying from 20 MW-77 MW. In J.S.P.L. I was looking after the operation & maintenance of 2 X 77 MW CPP.

Responsibilities:

- ❖ To look after all the operational activities of AFBC Boilers, TG Sets & their auxiliaries (All BHEL Make) , Compressors, Air Handling Units
- ❖ Start up, Shut down, Routine and Emergency operation (Power Cut, TG Tripping etc. independently following safe and standard operating procedures
- ❖ Co-ordination with the associated service departments i.e. DM plant, Coal handling plant, Ash handling plant & with Maintenance Departments for smooth running of the plant.
- ❖ Documentation of performance reports as per ISO 9001:2000.
- ❖ Evaluating and analyzing the performance of the plant & its associated equipments.
- ❖ Issue and cancellation PTW (Permit to Work) system, safe isolation, personnel safety and equipment safety.
- ❖ Analysis of all process parameters in the plant for efficient & effective operation
 - Boiler : BHEL make 4 X 165 TPH AFBC Boilers
 - Steam Turbine : BHEL make 2 X 77 MW Extraction (5 nos.) & Condensing type Steam Turbines.

Previous Employment :

Previous Employer : M/s Usha Martin Limited, Jamshedpur, India.

Designation : Shift Charge Engineer, Power Plant.

Period : September 2004 to May 2006.

Nature of Job : Operation Maintenance & Execution of Thermal Power Plant

Usha Martin is amongst the largest wire rope manufacturer in the world and a leading speciality steel producer in India. The wire rope manufacturing facilities located I India, UK, UAE and Thailand produce one of the widest range of wire ropes in the world.

Responsibilities:

- ❖ To run the power plant efficiently under all variable load conditions.
- ❖ Start up, Shut down, Routine and Emergency operation (Power Cut, Islanding, TG Tripping etc.), Synchronization with Grid independently following safe and standard operating procedures.
- ❖ To look after all the operational activities of Boiler (WHRSG & AFBC), TG Set, Ash Handling Plant (DPC), Coal Handling Plant & other auxiliaries both in the control room as well as in the field.

- ❖ Daily Monitoring of plant parameters, Logging and Shift reporting.
- ❖ Active participation in implementing and checking TPM (Total Productive Maintenance) activities in required areas together with the field workforce.

Boiler : i) L & T make 1 X 110 TPH AFBC Boiler
 ii) TPCL make 1 X 40 TPH AFBC Boiler along with WHRSG

Steam Turbine : i) BHEL make 1 X 25 MW Extraction (5 nos.) & Condensing type Steam Turbine
 ii) 1 X 15 MW Hungarian Steam Turbine

Previous Employment :

Previous Employer : The Tyre Corporation of India Ltd., Kankinara, West Bengal

Designation : Graduate Engineer Trainee (O & M)

Period : August 2002 to July 2003.

Nature of Job : To look after all the operation systems of different Tyre Machineries and the maintenance of Hydraulic and Pneumatic Systems

PROFESSIONAL TRAININGS:

- **On-Job Training:**
Six months Rotational on-Job Training in Power Plants of DVC, NTPC, WBPDC, DPL and Power Plant related operation & maintenance at various resourcing Organizations like ABL, DPL, Power Grid, CLDC, DSP & CMERI during Post Graduate Diploma course at NPTI, Badarpur & Durgapur.
- **Simulator Training:**
2 weeks simulator training on Power plant operation (Boiler lighting up, turbine rolling, synchronizing, loading and handling different emergencies) for 500 MW plant at NPTI, Faridabad.
- **Simulator Training:**
2 weeks simulator training on Power plant operation (Boiler lighting up, turbine rolling, synchronizing, loading and handling different emergencies) for 500 MW plant at Bakreswar Thermal Power Plant, West Bengal

ACHIEVEMENT : Qualified Management Aptitude Test (MAT) conducted by All India Management association (AIMA), New Delhi in May, 2002. My Percentile was 97.38 %.

COMPUTER PROFICIENCY :

Windows, MS-OFFICE, Auto-Cad.

PERSONAL SKILLS & ABILITIES :

- ❖ Ability to work effectively, efficiently as an individual and a part of team as well.
- ❖ Excellent communication, organization & interpersonal skills.

PERSONAL DETAILS:

Father's Name : Sri Samiran Brahma

Date of Birth : 1st Jan.1980

Sex / Marital Status : Male / Married

Languages Known : English, Hindi and Bengali

Nationality : Indian

Passport No. : S0002830 (Date of Expiry 06/03/2028)

Place: Kolkata

Suman Brahma