


RESUME

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Summary	
Education	Chemical Engineer, NIT Rourkela – 2009
Experience(9 years & 2 months)	Process Engineer –Esteem Project Pvt Ltd. 26 months
	Junior Process engineer- Tamil Nadu Newsprint and paper ltd (TNPL) 11 months
	Assistance process Engineer –Emami Paper Ltd 29 months
	Project Assistance – Institute of Mineral & Materials Technology (IMMT) 22 months
	Production – Jayshree Chemical Ltd 23 months
Summer Training	2 months summer training in “ IOCL PANIPAT ”

Education			
Qualification	Year	Board/University	CGPA/%
B.Tech. in Chemical Engineering	2009	NIT, Rourkela	7.02/10
XII	2004	CHSE(Maharishi college of natural law)	58.0
X	2002	HSE (Capital High School)	77.0

Professional Experience	
Process Engineer – Esteem Project Pvt Ltd. Aug 2017 – Cont...	
Expertise: Fired Heater Design and thermal calculation.	
Roles & Responsibilities	<ul style="list-style-type: none"> • Process Datasheet, APH Datasheet, Burner Datasheet, FD/ID fan Datasheet, Damper, Venturi and Shoot blower Datasheet preparation. • Datasheet preparation for PG, TG, DG, FT, TT, ANALYSER, TE and SKTC. • <u>PRE-ORDER ACTIVITIES:</u> <ul style="list-style-type: none"> • Studying the tender and carrying out thermal design of Fired Heater and its system in line with the customer specification using Software heater 560. • Carrying out preliminary mechanical design of pressure parts as per API 530 and preparation of Bill of Materials for estimation. • Carrying out Heat and mass balance, Pressure drop calculation, heat loss calculation and design of refractory. • Preparation of General Arrangement drawing and P&I diagram and Techno-commercial offer for submission to customer. • Involvement in Tendering activities such as preparation Techno-commercial comparison of offers for various items such as industrial fans, dampers, piping support, burners, APH, all instruments items etc • <u>POST-ORDER ACTIVITIES:</u> <ul style="list-style-type: none"> • Performance design of Fired Heater and its components and furnishing the details required for preparation of fabrication drawings of pressure parts. • Preparation of final specifications of bought out components like FD/ID fans, APH, Burner, Soot blowers, Dampers and Control Valves etc. for procurement purpose. • Checking of drawings of various bought-out items such as Burner, Dampers, Skin Thermocouple, etc and giving them approval. • Preparation of mechanical datasheets of items such as industrial fans, burner, shoot blower, dampers and all instrument items. • Checking all instruments drawing ,P&ID drawing, matching will of material and giving them approval from client.

	<ul style="list-style-type: none"> • Project Management work like:- document preparation, upload file, EIL review checking, CSR preparation and pending document preparation.
Activities	<ul style="list-style-type: none"> • <u>MAJOR JOBS HANDLED</u> • Complete fired heater thermal design, all instrument piping, CFD module preparation for burner and post order documentation of 1 x 10 MMKcal/hr Jubilant Industries Ltd – Gujarat, India . • Complete thermal design for revamping and modification of convection section coil –IOCL, Gujarat. • Complete thermal design ,involve in erection work and NDT activities in CDU, VDU, HCR, FCR, DCU, Hot Oil units in BORL, Bina refinery • Complete thermal design, Pre order documentation of 1 x 0.5 MMKcal/hr Laxmi Organic Industries Ltd, Mumbai, India • Complete thermal design and CFD module design for burner air distribution, APH ducting calculation and post order documentation of 1 x 5.26 MMKcal/hr IOCL ,Panipat & 1 x 6.48 MMKcal/hr ,1 x 16.58 MMKcal/hr IOCL, Gujarat. • Complete thermal design and CFD module design for burner air distribution, APH ducting design and post order documentation of 1 x 9.43 MMKcal/hr and 1 x 3.67 MMKcal/hr IOCL, Gujarat. • Complete thermal design and post order documentation of 1 x 1.57 MMKcal/hr and 1 x 2.13 MMKcal/hr CPCL, Chennai. • Complete thermal design and post order documentation of 1 x 3.56 MMKcal/hr and 1 x 3.71 MMKcal/hr Kerosene plant BORL, Bina. • Complete thermal design and Pre order documentation of 1 x 98.56 MMKcal/hr CCR NHT,Arbor heater BPCL, Mumbai. • Complete thermal design, Modification of radiant section and Post order documentation of 1 x 98.56 MMKcal/hr CCR NHT, Arbor heater BPCL, Mumbai. • Complete thermal design, Modification of convection section and Post order documentation of 1 x 105.56 MMKcal/hr reformer CPCL, Chennai. • Fired Heater Design for foreign county: - Ukraine, Uzbekistan, Singapore, Iraq and Romania. • Provides support to all project activities, from engineering to start-up,
Key Achievements	<ul style="list-style-type: none"> • Heater 560, Win-Heat ,HTRI and DWSIM software operation. • ASPEN PLUS , ASPEN HYSYS, SIM PRO,CFD ANSYS,PIPENET,FEED, Edraw software knowledge. • Codes used :API 560, API 530, ASME,

Junior Process Engineer – Tamil Nadu Newsprint and Paper ltd .		Jan 2016-Dec 2016
Expertise: Operation and process control of DCS (Soda Recovery plant)		
Roles & Responsibilities	<ul style="list-style-type: none"> • Lead a team of 35 members operator, worker and casual labour in individual shift. • Plant Capacity 1200 T/Day • Co-ordinate with paper machine1, 2, 3 and pulp mill 1, 2, 3 shift in-charge for good quality. • Responsible for minimize, as efficiently as possible, the loss and subsequent make-up of the chemical. 	
Activities	<ul style="list-style-type: none"> • Evaporation, Recovery Boiler, lime kiln, Heat Exchanger, Condenser, compressor and pumps all types of chemical equipment handle in shift. • Every day production meeting to improve quality and plant smooth running. • TPM work to maintain zero breaks down and improving the integrity of production. 	
Key Achievements	<ul style="list-style-type: none"> • In Oct 2016 achieve highest production 1245 T/day. • Member of “Industry Safety Program” in TNPL. • Member of TNPL “Cricket Team” in Staff club. 	

Assistance Process Engineer – Emami Paper Ltd.		Sep 2013 – Jan 2016
Expertise: Operation and process control of DCS (Soda Recovery plant)		
Roles & Responsibilities	<ul style="list-style-type: none"> • Lead a team of 20 members operator, worker and casual labour in individual shift • Plant Capacity 300 T/Day • Co-ordinate with paper machine 1,2 and pulp mill 1,2 shift in-charge for good quality. • Responsible for minimize, as efficiently as possible, the loss and subsequent make-up of the chemical. 	
Activities	<ul style="list-style-type: none"> • Evaporation, Recovery Boiler, lime kiln, Heat Exchanger, Condenser, compressor and pumps all types of chemical equipment handle in shift. • Every day production meeting to improve quality and plant smooth running. • TPM work to maintain zero breaks down and improving the integrity of production. 	
Key Achievements	<ul style="list-style-type: none"> • Member of “Institutional Training Programme ”on energy conservation organized by PCRA • Member of “Emami Jagannath Temple Co-ordinator” in Rath Yatra Festival. 	

Project Assistance –Institute of Mineral & Materials Technology (IMMT).		Nov 2011 –Aug 2013
Expertise: Development model to separate good quality coal by electrostatic separation, Development of technology to produce clean coal from high ash and high sulphur.		
Roles & Responsibilities	<ul style="list-style-type: none"> • Purchase the raw material and design a tribo-electrostatic separator. • Collect the different type of coal sample from different part of Odisha mines. • Lead a team of 10, members to carry out the project. 	
Activities	<ul style="list-style-type: none"> • Washability study & analysis, Flotation, Gravity separation technique. • Electrostatic separation & magnetic separation process used for get good quality coal. 	
Project	<ul style="list-style-type: none"> • “Tribo-Electrostatic Beneficiation of high ash coking coal” (GAP-230), Sponsored by CMPDI. • Development of technology to produce clean coal from high ash and high sulphur Indian coal, Sponsored by Ministry of Steel, New Delhi. 	
Key Achievements	<ul style="list-style-type: none"> • Get a good quality coal by electrostatic separation and save around 20% water. • Electrostatic separation is less water pollution and less mineral waste process. • High quality sulphur in Indian coal found which is less calorific value and more pollution. 	

GET – Jayshree Chemical Ltd.		Jan 2010 – Nov2011
Expertise: Manpower Planning and Coordination, Working in Cross-Functional teams, Production Planning.		
Shift-in-Charge – Caustic Soda Plant		
Roles and Responsibilities	<ul style="list-style-type: none"> • Lead a cross functional team of 35 employees & other key stakeholders in a plant of 150T/day capacity • Plan, schedule and manpower allocation of plant personnel for maintenance and operational activities. • Number of chlorine cylinder dispatch and received in every shift to be calculated. 	
Key Achievements	<ul style="list-style-type: none"> • Plant Safety member’s team in any emergence situation. • Selected as the “Best Team Leader” in Operations Department among 12 peers. 	

Positions Of Responsibilities	
KEY SKILLS	Basic knowledge of “ ASPEN HYSYS ”, “ ASPEN PLUS ”, “ HEATER 560 ”, CFD ANSYS , FEED , DWSIM , HTRI , SIM-PRO , Edraw , Heater Datasheet preparation, Sketch and Plan View, MTO Preparation, process flow diagram, FEED for new heater, simulation and property analysis. PFD , Process block diagram in EXCEL , Mass Balance, Water balance and Energy balance.
NIT, Rourkela	Core Committee member, Annual Tech Fest
	Student Representative, Dept. of Chemical Engineering
	Boys Hostel Annual sport Representative.

Nayan Kumar Behera