



# CURRICULUM VITAE

HOP's ENGINEER: ELECTRICAL-INSTRUMENTATION & CONTROL (EI&C)

<b>NAME:</b>	<b>BIPLAB SEN</b>
<b>SUMMARY:</b>	Graduate engineer with broad (15 yrs. +) experience in <b>Proposal, Engineering, Installation &amp; Commissioning</b> of different types of water treatment projects and wastewater projects. Ultra-filtration (UF), <b>Desalination (SWRO + BWRO)</b> , sewage treatment (MBBR & SBR based), effluent treatment (ETP), tertiary treatment (TTP-RO), zero liquid discharge (ZLD – UF –RO Based), Demineralization (CATION + ANION), etc.
<b>SKILLS:</b>	<ul style="list-style-type: none"> <li>➤ Proposal &amp; Estimation</li> <li>➤ Design &amp; Engineering</li> <li>➤ Procurement &amp; Negotiation</li> <li>➤ Construction &amp; Commissioning</li> <li>➤ Project Management (Leadership)</li> <li>➤ Relationship and Team Building</li> </ul>
<b>DUTIES &amp; RESPONSIBILITIES</b> <b>SIDEM – VEOLIA :</b>	<ul style="list-style-type: none"> <li>➤ 150 MIGD Desalination (SWRO) projects (<b>Project Value 792 Million USD</b>) Instrumentation &amp; Control.</li> <li>➤ Preparation of Instrument list, Test Pack</li> <li>➤ QC review upon receipt of I&amp;C equipment</li> <li>➤ Instrumentation &amp; Marshalling Boxes location drawing</li> <li>➤ Preparation of Installation and commissioning documents for I&amp;C</li> <li>➤ Inspection and Quality check of I&amp;C.</li> <li>➤ DCS (22 numbers ovation controllers)System with Network &amp; Server Architecture</li> <li>➤ ESD System for High Pressure Pumps operation.</li> <li>➤ DMZ cyber security for Plant automation, PASS &amp; Enterprise IT System.</li> <li>➤ Water Metering System ( OMNI Flow Computer)</li> <li>➤ IP Camera, NVR for surveillance of the entire Plant.</li> <li>➤ 11 KV MV VFD (Rockwell) – 80 numbers used for this project.</li> <li>➤ Different types of online Analyser panels applicable for Desalination projects.</li> </ul>
<b>DUTIES &amp; RESPONSIBILITIES</b> <b>IN QUALITY INTERNATIONAL :</b>	<ul style="list-style-type: none"> <li>➤ Develop and maintain the engineering standards and design best practices.</li> <li>➤ Develop and review material take-offs and data sheets for EI&amp;C equipment.</li> <li>➤ Review and evaluate the capabilities of vendors and contractors to determine their acceptability to perform major services. Act as the department representative in dealings with vendors and manufacturers.</li> <li>➤ Evaluate the techno commercial offer &amp; finalization of the E&amp;I vendors.</li> <li>➤ Perform cost analyses and value engineering studies as appropriate.</li> <li>➤ Undertake special assignments requiring extensive technical experience and discretion when dealing with outside organizations.</li> <li>➤ Provide expert advice and assistance to the vendors and manufacturers on EI&amp;C engineering matters.</li> <li>➤ Preparation of Method statement.</li> <li>➤ Develop and review the L-3 schedule for engineering, procurement and installation activities.</li> <li>➤ Review daily, weekly progress reports.</li> </ul>



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	<ul style="list-style-type: none"> <li>➤ Preparation of chronology for change order for additional project items.</li> <li>➤ Inspect EI&amp;C equipment installations in the field (Module yard &amp; job site).</li> <li>➤ Work on or with task forces assigned to investigate incidents or solve specific problems.</li> <li>➤ Conduct meetings/seminars in the resolution of technical problems with personnel from client/vendor/sub agency.</li> <li>➤ Electrical heat tracing (EHT) installation.</li> <li>➤ Review of project completion documents (e.g. OSD, NCR, GRN, DO, ITR etc.)</li> <li>➤ Review the red mark-up drawings.</li> <li>➤ Module wise reconciliation of EI&amp;C and EHT items.</li> <li>➤ Working like a professional mentor to less senior specialists and engineers.</li> </ul>
TYPE – A - EXPERIENCE IN PROPOSAL & ESTIMATION:	<ul style="list-style-type: none"> <li>➤ Understanding the proposed project requirement from the tender specification and commercial terms &amp; conditions.</li> <li>➤ Originate and carry out engineering studies to determine potential problems and remedies to existing problems, resolve complex technical problems, and review tender data sheets for EI&amp;C.</li> <li>➤ Preparation of clarification/deviation/pre bid queries documents.</li> <li>➤ Preparation of techno-commercial proposal (EI&amp;C).</li> <li>➤ Presence on technical meetings with client/consultant personnel.</li> <li>➤ Value added ideas imposing on projects.</li> <li>➤ Close coordination with the sales &amp; marketing team to win the tender.</li> <li>➤ Preparation of PID and drawings &amp; documents for Bid (tender) submission.</li> <li>➤ L-3 Schedule for Engineering, Procurement, Installation &amp; Commissioning.</li> <li>➤ Basic Knowledge of Primavera (P6) for project schedule.</li> </ul>
TYPE – B - EXPERIENCE IN ENGINEERING & DESIGN:	<p><b>Develop, review and maintain the engineering standards (IEC, IEEE &amp; NEC) and design best practices (Proficient) of the below mentioned drawings &amp; documents: -</b></p> <ul style="list-style-type: none"> <li>➤ Single line diagram (SLD): MV (11 &amp; 6.6 KV), LV &amp; lighting system.</li> <li>➤ Layout – cable trays (power, control &amp; instrumentation), illumination system, earthing, lightning protection, instrument air etc.</li> <li>➤ Schematic Feeder drawings for MCC feeder, LPBS, local starter panel. etc.</li> <li>➤ Cable sizing calculations, – MV &amp; LV power cable selection method.</li> <li>➤ Cable schedule – MV, LV, control &amp; lighting.</li> <li>➤ Cable gland schedule - MV, LV, control, instrumentation &amp; lighting.</li> <li>➤ Selection of electrical panels MV, PCC, PMCC, MCC, VFD etc.</li> <li>➤ GA drawings – MV panel, PCC, PMCC, MCC, VFD, PLC/DCS, UPS, MLDB, battery charger.</li> <li>➤ Transformer sizing calculation &amp; selection method.</li> <li>➤ UPS sizing calculation &amp; selection method.</li> <li>➤ Lightning protection calculations.</li> <li>➤ Earthing calculation.</li> <li>➤ Main bus bar sizing calculation for MV &amp; LV panels.</li> <li>➤ Heat dissipation calculation for electrical panel, UPS &amp; VFD panel.</li> <li>➤ Data sheet – transformer, motor, cable, cable tray, earthing material, LPBS, VFD, UPS etc.</li> <li>➤ Bulk material take-offs (MTO/BOQ).</li> <li>➤ <b>PID (process &amp; instrumentation diagram).</b></li> <li>➤ Instrument index.</li> <li>➤ Interlock details.</li> </ul>



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	<ul style="list-style-type: none"> <li>➤ Technical data sheets for field Instruments (Gauges &amp; Transmitters).</li> <li>➤ Instrument wire and cable (Conductive type) Selection to minimize electrical interference (EMI).</li> <li>➤ Grouping of Instrument cables and cable schedule.</li> <li>➤ Junction box schedule.</li> <li>➤ Instrument hook-up drawings.</li> <li>➤ Cause &amp; Effect Diagrams.</li> <li>➤ I/O List with Alarm / Trip / Parameter Settings.</li> <li>➤ System OVERVIEW Drawings / Block Diagrams.</li> <li>➤ Architecture of Process Control System, GA, Power distribution and earthing.</li> <li>➤ Selection of PLC &amp; SCADA system (SIL verification) with communication protocol (MODBUS RTU / TCP IP &amp; Ethernet TCP/IP).</li> <li>➤ Selection of communication (Serial, Ethernet &amp; Fiber-optic) cable, like RS 232, RS 485, Cat 5/6 or Single mode/Multi mode.</li> <li>➤ Knowledge of Safety Instrumented System (SIS), Logic solver, F&amp;G, Anti-Surge control, Bently Nevada (BN) rack and Package PLC system network.</li> <li>➤ Control philosophy &amp; Logic Narratives.</li> <li>➤ Technical data sheet for PLC/DCS.</li> <li>➤ Participate in FATs &amp; SAT of I&amp;C packages.</li> <li>➤ Instrument air distribution drawings.</li> </ul>
TYPE – C - EXPERIENCE IN INSTALLATION AND COMMISSIONING:	<ul style="list-style-type: none"> <li>➤ Develop and review EI&amp;C material preservation procedure.</li> <li>➤ Develop and review the installation procedure for all major items. Like, MV &amp; LV Panels, transformer, PLC/DCS, VFD panels, and cable trays.</li> <li>➤ Develop and review power, control &amp; instrumentation cable pulling procedure.</li> <li>➤ Originate and carry out Insulation check format for transformers, panels &amp; power cables.</li> <li>➤ Originate and carry out earthing Resistance parameter &amp; report.</li> <li>➤ Originate and carry out motor no load testing procedure &amp; report.</li> <li>➤ MV, LV, PLC Panels <u>Power ON</u> procedure.</li> <li>➤ Loop Checking from PLC/DCS to field equipment.</li> <li>➤ Preparation of calibration procedure for field instruments.</li> <li>➤ Testing of transformer, electrical panels (MV&amp;LV), vfd, plc/dcs, ups etc.</li> <li>➤ Control valve stock checking.</li> <li>➤ Troubleshoot complex instrumentation and control system issues in operational facilities.</li> <li>➤ Participate in SATs of EI&amp;C packages.</li> </ul>
SOFTWARE:	<ul style="list-style-type: none"> <li>➤ ETAP PS</li> <li>➤ SPI INTOOLS</li> <li>➤ AutoCAD</li> <li>➤ DIALux</li> <li>➤ SAP B1</li> <li>➤ Primavera P6</li> </ul>
ESSENTIAL SKILLS:	<ul style="list-style-type: none"> <li>➤ Familiar with design, maintenance and operation of SIS (Safety Instrumented Systems). Also be competent with safety standards (IEC 61507/61511), ATEC Standards and Instrumentation Design Standards (IEC 70079-14).</li> <li>➤ Familiar with BS7671</li> <li>➤ NEMA VE2</li> <li>➤ NEC 2014</li> </ul>



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EDUCATION:	Graduate Engineer – Telecommunication (B.E)																				
	Duration : 4 Years (2001 – 2005)																				
	Year of passing : 2005																				
	Institute : Atria Institute of Technology (Bangalore) – INDIA																				
	University : Visvesvaraya Technological University (VTU) - INDIA																				
OUR FEW CUSTOMERS :	<table><tr><th>GLOBAL CLIENT / CONSULTANT</th><th>DOMESTIC CLIENT / CONSULTANT</th></tr><tr><td><div><div></div>MCD &amp; CB&amp;I – USA</div><div><div></div>SHELL</div><div><div></div>KBR – USA</div><div><div></div>BASF - USA</div><div><div></div>FLUOR</div><div><div></div>BECHTEL</div><div><div></div>PETROFAC</div><div><div></div>JACOBS</div><div><div></div>TOYO ENGINEERING ...ETC</div><div><div></div>TECHNIP</div><div><div></div>TOTAL – USA</div><div><div></div>MOTT MACDONALD</div><div><div></div>YINSON (NORWAY)</div><div><div></div>ENTROPIE/VEOLIA (FRANCE)</div></td><td><div><div></div>DUBAI WATER AND ELECTRICITY (DEWA)</div><div><div></div>(SEWA) – UAE</div><div><div></div>FEWA</div><div><div></div>ILF CONSULTING</div><div><div></div>ADNOC</div><div><div></div>ONGC</div><div><div></div>INDIAN OIL</div><div><div></div>EIL</div><div><div></div>SAUDI ARAMCO</div><div><div></div>KUWAIT NATIONAL PETROLIUM</div></td></tr></table>			GLOBAL CLIENT / CONSULTANT	DOMESTIC CLIENT / CONSULTANT	<div><div></div>MCD &amp; CB&amp;I – USA</div> <div><div></div>SHELL</div> <div><div></div>KBR – USA</div> <div><div></div>BASF - USA</div> <div><div></div>FLUOR</div> <div><div></div>BECHTEL</div> <div><div></div>PETROFAC</div> <div><div></div>JACOBS</div> <div><div></div>TOYO ENGINEERING ...ETC</div> <div><div></div>TECHNIP</div> <div><div></div>TOTAL – USA</div> <div><div></div>MOTT MACDONALD</div> <div><div></div>YINSON (NORWAY)</div> <div><div></div>ENTROPIE/VEOLIA (FRANCE)</div>	<div><div></div>DUBAI WATER AND ELECTRICITY (DEWA)</div> <div><div></div>(SEWA) – UAE</div> <div><div></div>FEWA</div> <div><div></div>ILF CONSULTING</div> <div><div></div>ADNOC</div> <div><div></div>ONGC</div> <div><div></div>INDIAN OIL</div> <div><div></div>EIL</div> <div><div></div>SAUDI ARAMCO</div> <div><div></div>KUWAIT NATIONAL PETROLIUM</div>														
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<b>DESALINATION – SWRO PROJECT:</b>	<table><tr><td colspan="2"><b>SIDEM - VEOLIA: 2020 TO TILL DATE</b></td></tr><tr><td><b>Customer Name</b></td><td><b>NAQAA DESALINATION PLANT – FEWA &amp; ACWA POWER JV</b></td></tr><tr><td><b>Project Value</b></td><td>792 Million USD</td></tr><tr><td><b>Project Location</b></td><td>UMM AL QUWAIN, UAE</td></tr><tr><td><b>Project Name</b></td><td>150 MIGD DESALINATION (SWRO) PROJECT</td></tr><tr><td><b>Project Capacity</b></td><td>50 MIGD X 3 STREAM</td></tr></table>	<b>SIDEM - VEOLIA: 2020 TO TILL DATE</b>		<b>Customer Name</b>	<b>NAQAA DESALINATION PLANT – FEWA &amp; ACWA POWER JV</b>	<b>Project Value</b>	792 Million USD	<b>Project Location</b>	UMM AL QUWAIN, UAE	<b>Project Name</b>	150 MIGD DESALINATION (SWRO) PROJECT	<b>Project Capacity</b>	50 MIGD X 3 STREAM		
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<b>REVERSE OSMOSIS (RO) PROJECT DETAILS :</b>	<table><tr><td colspan="2"></td></tr><tr><td colspan="2"><b>AQUALYNG: 2015 TO 2018</b></td></tr><tr><td><b>Customer Name</b></td><td><b>NIRMA LIMITED</b></td></tr><tr><td><b>Consultant Name</b></td><td>AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD.</td></tr><tr><td><b>Project Location</b></td><td>KALATALAV VILLAGE, BHAV NAGAR DISTRICT, GUJARAT STATE, INDIA</td></tr><tr><td><b>Project Name</b></td><td>SEAWATER DESALINATION PLANT</td></tr><tr><td><b>Project Size</b></td><td>Feed Flow – 5 X 535 M3/hr. SWRO  Permeate Flow - 5 X 214 M3/hr. SWRO</td></tr></table>			<b>AQUALYNG: 2015 TO 2018</b>		<b>Customer Name</b>	<b>NIRMA LIMITED</b>	<b>Consultant Name</b>	AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD.	<b>Project Location</b>	KALATALAV VILLAGE, BHAV NAGAR DISTRICT, GUJARAT STATE, INDIA	<b>Project Name</b>	SEAWATER DESALINATION PLANT	<b>Project Size</b>	Feed Flow – 5 X 535 M3/hr. SWRO  Permeate Flow - 5 X 214 M3/hr. SWRO
<b>AQUALYNG: 2015 TO 2018</b>															
<b>Customer Name</b>	<b>NIRMA LIMITED</b>														
<b>Consultant Name</b>	AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD.														
<b>Project Location</b>	KALATALAV VILLAGE, BHAV NAGAR DISTRICT, GUJARAT STATE, INDIA														
<b>Project Name</b>	SEAWATER DESALINATION PLANT														
<b>Project Size</b>	Feed Flow – 5 X 535 M3/hr. SWRO  Permeate Flow - 5 X 214 M3/hr. SWRO														



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	Recovery 40%.
Plant Specification	TDS – 51332 mg/l. @ 20-40 deg. C.
Number of SWRO unit	5 Working

<b>Customer Name</b>	<b>THANE MUNICIPAL CORPORATION</b>
Project Location	THANE, MUMBAI, INDIA
Project Name	20 MLD SEA WATER DESALINATION PLANT
Project Size	Permeate Flow - 278 M3/hr. SWRO Recovery 45%.
Plant Specification	TDS – 42000 mg/l. @ 22-34 deg. C.
Number of SWRO unit	4 (3 Working + 1 Standby)

<b>Customer Name</b>	<b>SEWA – LAYYAH POWER STATION</b>
Consultant Name	IFL - ABUDHABI
Project Location	SHARJAH – UAE.
Project Name	5 MIGD – SWRO PLANT

### **THERMAX LTD – 2011 TO 2015**


<b>Customer Name</b>	<b>KWPCL</b>
Consultant Name	FICHTNER - CHENNAI
Project Location	RAIGARH - INDIA
Project Name	160 M3 / HR – (UF-RO-MB) for 600 MW THERMAL POWER PLANT.

<b>Customer Name</b>	<b>BHARAT PETROLEUM</b>
Consultant Name	ENGINEERS INDIA LIMITED
Project Location	KERALA - INDIA



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	Project Name	1200 M3 / HR – (UF-RO-MB) for 660 MW THERMAL POWER PLANT.
	<b>VATECH WABAG – 2006 TO 2008</b>	
	Customer Name	INDIAN OIL CORPORATION LTD
	Consultant Name	ENGINEERS INDIA LIMITED
	Project Location	PANIPATH - INDIA
	Project Name	1200 M3 / HR – <b>REVERSE OSMOSIS BASED TERTIARY TREATMENT PLANT (TTP –RO) – EPCC 04</b>
	<b>Customer Name</b> <b>INDIAN OIL CORPORATION LTD</b>	
	Consultant Name	ENGINEERS INDIA LIMITED
	Project Location	PANIPAT - INDIA
	Project Name	950 M3 / HR – <b>REVERSE OSMOSIS BASED DM PLANT (UF –RO DM) – EPCC 06</b>
<b>PERSONAL DETAILS:</b>	<ul style="list-style-type: none"><li>● Pass Port No. : P8742426 – expiry ON 16<sup>th</sup> March 2027</li><li>● Visa Status : Resident type</li><li>● Date of Birth : 06th JAN 1982</li><li>● Sex : Male</li><li>● Behavior : Versatile, Soft spoken, Positive motivation.</li><li>● Marital Status : Married</li><li>● Location : Sharjah (UAE) – Presently.</li><li>● Nationality : Indian</li><li>● Religion : Hindu</li><li>● Nature : Knowledge sharing, Learning, Accept new technology.</li><li>● Hobby : Listening news, songs, motivational speech etc.</li><li>● Mobile : (+917) 581593371 &amp; (+91) 9932149094</li><li>● Email : <a href="mailto:sen.bubai@gmail.com">sen.bubai@gmail.com</a> / <a href="mailto:biplab_burdwan@rediffmail.com">biplab_burdwan@rediffmail.com</a></li></ul> <p><input type="checkbox"/> I hereby declare that the information furnished above is true to the best of my knowledge.</p> <p style="text-align: right;"> (BIPLAB SEN)</p>	