

CURRICULUM VITAE

Name : **VASHISHTHA MUNI PANDEY**
Date of Birth : November 18, 1957
Nationality : Indian
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PROFESSIONAL EXPERIENCE: Total experience over 39 Years out of which:

- Around one year in **TSH Limited, New Delhi** (General Manager, Engineering)
- More than 3 years in **Nuberg Engineering Limited Noida** (Vice President, Engineering)
- 2.5 Years in **Samsung Engineering India Ltd.** (Head of Discipline, Mechanical)
- 5 years in **Petrofac International, Sharjah, UAE**
- 1.5 years in **WorleyParsons** Indonesia/Korea,
- 14.5 years in **Engineers India Limited, New Delhi** and
- 11 years in **Projects & Development India Ltd. Noida**

CAREER SUMMARY:

Over 38 years of experience in design and engineering of various Mechanical equipments/packages out of which 7 years as Job Engineer, 8 years as Lead Static Engineer, over 9 years as Group Leader (Static & Packages), 5 years as Deputy Manager (Static Equipment) /Group Manager (Specialist Group) and for 2 and half years as Head of Department and more than 3 years as Engineering Head/Vice President Engineering.

Experience on project phases ranging from FEED, EPC (Engineering, procurement, & construction) and Project Management Consultant (PMC) of projects in different fields.

Specialized in FEED, detail engineering and PMC of Process equipment like Hydrocracker Reactor, Catalytic Converter, DHDT Reactor, Crude Column, Atmospheric Column, Other Trayed and Packed Columns, Structurally Supported Columns, Heat Exchangers (U-tube, Fixed tube sheet and floating head exchanger), Air Coolers, Cone/Dome/Floating Roof Tanks, Double Wall Cryogenic Tanks, Mounded Bullets, Horizontal & Vertical Vessels including Separators and Slug Catchers with internals, Flare Stacks, Burners, Reaction furnace, Thermal oxidizers, Fired Heaters, Gas Dehydration Package of oil and gas/refinery/petrochemical and fertilizer projects.

As Specialist/Lead Mechanical Engineer/Group Leader, responsible for review of design calculation, preparation of input for FEED for EPC bid package, checking and review of mechanical data sheets of all mechanical equipment, material requisition (MR), technical questionnaire (TQ), technical bid evaluation (TBE), purchase requisition (PR) and review of vendor data for the above equipment and packages.

Apart from the above project related activities, I have been involved in man-power planning and forecast, preparation of inputs for various proposals and technical evaluation of vendors and contractors for their enlistment with the organizations.

BASIC AND DETAIL ENGINEERING

CURRICULUM VITAE

- Review of Process data sheets, Process flow diagrams (PFDs), P&IDs, Design basis to check compatibility and continuity.
- Selection of material of construction for equipments as per various standards (e.g. ASME, DIN, BIS, BS etc.)
- Preparation of job specifications for critical equipments.
- Detail engineering of the process equipments listed above conforming to various Codes and Standards e.g. ASME, API, BIS, BS and EN.

PROJECT RELATED WORKS

- Review of Mechanical data sheets, Material and Purchase Requisitions for equipments.
- Preparation of FEED packages along with Mechanical Equipment Register for EPC jobs.
- Preparation of Technical Bid Evaluation and recommendations for placement of orders.
- Review of Flare Stack Package, Furnaces and Fired heaters, Thermal Deoxidizer, Gas Dehydration including TEG Regeneration packages etc.
- Input for mechanical works including erection, insulation, painting, fireproofing of all type of static equipment.
- Review of vendor drawings, co-ordination with Vendors/Site for resolution of fabrication/site issues.

PROFESSIONAL ABILITIES

- Well versed with various National and International codes e.g. ASME, BS, EN, API, NACE, BIS etc. relevant to the process equipments, reactors, columns, vessels, tanks, spheres, heat exchangers, air coolers and combustion equipments etc.
- Well conversant with various materials like CS, SS, LAS, SS, DSS, SDSS, Inconel, Incolloy, Aluminum, Other Nickel based alloys, Monel and Titanium for vessels, columns, and Vanadium modified low alloy steels for reactors.

LIST OF CONSULTANTS/MANUFACTURERS/CLIENTS

- Worked with the world's leading consultants / licensors/ manufacturers/Owners like ABB Lummus, Black & Veatch, Linde, UOP, Axens, Dupont, APCI, Air Liquide, Toyo Engineering and Mitsui Japan, PDO, KOC, Turkmen Gas(TMG), Petronas, Sonatrach and Exxon Mobil, Zirax, EB Nuberg etc.

FIELDS OF EXPERIENCE

Upstream Oil and Gas, Refineries, Petrochemicals, LNG, Utilities & Offsite, Fertiliser & Chemicals including green field and brown field jobs:

WORK PROFILE

A) NUBERG ENGINEERING LIMITED, NOIDA

Job Title	:	General Manager Engineering	Period	:	Dec 2020 – Till date
As General Manager (Engineering) I am head of engineering disciplines (Static, Rotating, Civil, Piping, Electrical and Instrumentation) total a team of 30 engineers/draftsman. Responsible for managing all activities of engineering including approving engineering schedules, allocating requisite manpower, reviewing and approving critical technical deliverables, resolving critical issues of projects till date.					
Project executed: Waste Liquid Fuel Incinerator package of IOCL Dumad - as associate of Intherma Germany on whom package was ordered by thyssenKrupp Industrial Solutions (tKIS)					

CURRICULUM VITAE

B) NUBERG ENGINEERING LIMITED, NOIDA

Job Title	: Vice President Engineering	Period	: April 2017 – Sept 2020
<p>As Vice President (Engineering) was head of engineering disciplines (Static, Rotating and Piping) total a team of 60 engineers/draftsman.</p> <p>Responsible for managing all activities of these departments including approving Engineering Bill of Works (EBW), allocating requisite manpower for all projects and developmental activities, reviewing and approving all projects' critical technical deliverables, resolving critical issues of projects in all phases of projects until commissioning and hand over.</p> <p>Leading standardization and quality management system (QMS) initiatives of all engineering disciplines.</p> <p>Interview and selection of engineers and draughtsman to maintain balance between manpower and workload:</p> <p>Major Projects executed during this tenure are as follows:</p> <ul style="list-style-type: none">i) Calcium chloride Project TCI Sanmar Egyptii) Hydrogen Peroxide Project of Indian Peroxide Limited Gujaratiii) Anisole Project of GCI, Saudi Arabiaiv) Hydrogen Peroxide project of NCIC Egyptv) Calcium Chloride Project, Chimcomplex, Romaniavi) Caustic Soda Project of EPC Egyptvii) Caustic Soda Project Sachlo, Saudi Arabiaviii) Calcium Chloride Project of Sachlo, Saudi Arabiaix) Caustic Soda Project of Morocco			

C) SAMSUNG ENGINEERING INDIA LIMITED, NOIDA

Job Title	: Sr. Principal Engineer II (Head of Department -Mechanical)	Period	: Feb 2014 – Sept 2016
<p>As Head of Mechanical Department, I was leading a team of around 50 engineers consisting of Static and Rotating disciplines.</p> <p>Was responsible for managing all activities of the Mechanical department including controlling contracted manhours with Samsung Engineering Korea for horizontal and vertical work share jobs, allocating manpower for all projects and developmental activities, reviewing, and approving all projects critical technical deliverables, resolving critical issues of projects, leading standardization, and quality control initiatives of the department. Interview and recruitment of engineers to maintain balance between manpower and workload.</p> <p>Major Projects executed during this tenure are as follows:</p> <ul style="list-style-type: none">x) KNPC (CFP) with work share of 114 Static equipment and 58 nos. of Rotating equipmentxi) Timimoun Field development with work share of 21 Static equipment, 2 nos. pumps and 27 nos. Chemical Injection packagesxii) HMEL Project- DEC project with 2 columns, 3 exchangers, 1 Reactor, 3 filters, 2 nos. Centrifugal Compressors, 1 no. Booster compressor and 3 nos. Centrifugal pumps.			

D) PETROFAC INTERNATIONAL LIMITED, SHARJAH: January 2009 to February 2014 (5 years)

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CURRICULUM VITAE

Job Title	:	Deputy Manager (Static Equipment)	Period	:	January 2009 to Feb 2014
<p>Worked as Group Manager of Multidisciplinary Specialist Group (Static Equipment) leading a team of 30 engineers including mechanical, process, Civil, and instrumentation engineers.</p> <p>Responsible for controlling all activities of Specialist Group including review of Mechanical Design Basis, project specifications, mechanical data sheets, RFQs including scope of work and supply of critical Static Equipment/Package and providing appropriate guidance to project delivery team to ensure seamless engineering in all ongoing projects and proposals.</p> <p>Also responsible for multidisciplinary peer review of critical equipment and packages.</p> <p>Major equipment include high thick/high pressure/lethal/sour/exotic materials vessels/columns/heat exchangers, large air coolers, fired heaters, thermal oxidizers, large storage tanks, double wall storage tanks etc.</p> <p>Mega project/proposals where worked as Lead and specialist are South Yoloten Gas Development Project (4 billion USD project), Yamal LNG proposal (approx. bidding value 3.5 billion USD)</p> <p>Apart from the above, vigorously took up standardization work of Mechanical (Static) and developed around 300 standard documents including specifications, standard drawings, technical bid evaluation formats, datasheets, checklists, guides, work instructions and manuals covering majority of equipment and packages handled by Mechanical (Static). These documents were started to be extensively used by all leads and discipline engineers working in all projects and proposal. This led to more simplified and consistent approach in work processes which is one of the foremost requirements of success in EPC business.</p> <p>Headed the interview panel for recruitment of Static equipment engineers for Sharjah and Al Khobar offices and interviewed around 150 candidates and finally selected around 50 candidates which formed the core static group during my tenure in Petrofac</p>					

E) WORLEYPARSONS INDONESIA/Korea : August 2007 to January 2009 (1.5 years)

Banyu Urip Field Development Project of M/s Exxon Mobil/ERC Refinery Project					
Job Title	:	Lead Mechanical Engineer	Period	:	August 2007 upto January 2009
<p>For Banyu Urip project, I was responsible for controlling all activities of mechanical discipline. Also responsible for reviewing of project specifications and mechanical data sheets of Static Equipment, Rotating Equipment, and Package Equipment.</p> <p>For ERC Refinery I worked in PMC team as Static Equipment specialist in GS Engineering office Korea and was responsible for review of project specifications, material requisitions and technical bid analysis of all critical equipment in licensed units of Axens.</p>					

F) ENGINEERS INDIA LIMITED : February 1993 TO July 2007 (14.5 YEARS)

Guru Gobind Singh Refinery of M/s GGSRL, New Vizag Refinery Project of HPCL, Chennai Petrochemicals Ltd.					
Job Title	:	Group Leader (Static & Package Equipments)	Period	:	April 2007 to July 2007
<p>Responsible for inputs for Licensor selection of various units, preparation of engineering design basis, review/approval of design calculation & mechanical data sheet and Preparation of Material requisition/tender input of reactors, columns, vessels, tanks and packages for various units including CDU/VDU, FCCU, PPU, MS block, DHDT, Hydrogen and utilities and off-sites.</p>					

Various Projects of Sonatrach Algeria					
Job Title	:	Static & Package Equipments Specialist	Period	:	July 2005 to March 2007

CURRICULUM VITAE

Posted at M/s Sonatrach's office at Algeria and was responsible for review of tender inputs for EPC Projects and preparation and review of technical bid evaluation (TBEs) for LNG, LPG, Refinery, Petrochemicals, Oil and Gas & **Algeria Fertilizer (JV of Sonatrach and Suhail Bahwan group Oman)** projects coming in Arzew and Skikda industrial zones. Guidance to Sonatrach engineers for preparation of bid documents and technical questionnaire and also for review of contractor's documents. Review of comments prepared by Sonatrach engineers on various Static Equipment and packages deliverables of EPC contractors.

HDPE Expansion Project of GAIL (I) Limited, Panipat Refinery Expansion Projects of Indian oil Corporation, India, Sulphur block and Utilities & Offsites, Expansion of Kochi Refinery Ltd. India, LLDPE Project of M/s GAIL, (India), and expansion of Gas Cracker unit of MGCC expansion Project of IPCL, India (Refinery, Petrochemical and Oil & Gas Projects)

Job Title	: Group Leader (Static Equipments and packages)	Period	: 2001 to 2005
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Responsible for review/approval of design calculation of columns, vessels, mounded storage bullets, floating and fixed roof tanks, cryogenic tanks, silos, shell and tube heat exchangers CCR Platforming reactor, NHT reactor, Isomar reactor, Tatoray reactor, equipment of PTA plant licensed by M/s Dupont including oxidation reactor and equipments covered in packages, equipment of ONGC's Oil & Gas field projects, preparation of Bidder's Evaluation Criteria, review of MR, PR, technical bid analysis and vendor documents for the above equipments. Also designed vessels and heat exchangers of IUG skids of process platforms of ONGC.

Paradeep Refinery Project of Indian Oil Corporation India

Job Title	: Group Leader (Static Equipments)	Period	: 2000 to 2002
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Responsible for review/approval of pressure vessel design for various units involving Hydrocracker reactor, CCR Platforming reactor, NHT reactor, CS/SS columns and vessels, preparation of inputs for FEED for EPCC bid package, scrutiny of bids, preparation of technical questionnaire and technical bid analysis. Accountable for design calculation of critical equipment and correctness & completeness of bid package.

Chemical Port Terminal Dahej of M/s GCPTCL

Job Title	: Group Leader (Static Equipments and packages)	Period	: 1998 to 2000
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Responsible for checking of mechanical design calculation, mechanical data sheet, tender input, MR, PR & technical bid analysis and review of vendor documents for the columns, vessels, reactors, spheres and storage tanks including cryogenic double wall tanks for storage of propane and propylene.

VCM Project of M/s Petronas Malaysia

Job Title	: Static Equipment Specialist/ Group Leader	Period	: 1997 to 1998
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As Static Equipment Specialist/ Group Leader posted in **Toyo Engineering's office in Japan to work in PMC team consisting of Technip, EIL and OGP Malaysia**. Was responsible for review/approval of Engineering data sheet and design calculation prepared by M/s Toyo Engg. (EPC Contractor) and review of vendor drawings for columns, vessels, OC Reactor and storage tanks of VCM project of M/s Petronas, Malaysia.

CRU Digboi of M/s Indian Oil Corporation Ltd., DCU & LPG Recovery of BRPL, Wax Hydrofinishing unit of IOCL Digboi.; Essar Oil Refinery Project of Essar Oil, Jamnagar

Job Title	: Lead Engineer (Static Equipments)	Period	: 1993 to 1997
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CURRICULUM VITAE

Responsible for review of design calculation of all the columns, vessels, reactors, limpet coil & jacketed vessels, Preparation of MR, PR, technical bid analysis and review of vendor documents for the above equipments. For Essar Oil Refinery Project, part review of vendor document was carried out at the works of M/s Daewoo Heavy Industries Corporation and Korea Heavy Industries Corporation in South Korea.

G) PROJECTS & DEVELOPMENT INDIA LTD, SINDRI: 1982 to 1993 (11 Years)

Chambal Fertiliser Project, Gadepan; Babarala Fertiliser Project of M/s Tata Chemicals, Trombay I Fertilizer Project of M/s RCF, Namrup-III Expn. Project of M/s HFCL, Jagadishpur Fertiliser Project of M/s Indogulf Fertiliser Ltd, End to end survey of urea and ammonia plants of FCI Gorakhpur

Job Title	:	Job/Lead Engineer (Mechanical)	Period	:	1982 to 1993
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Responsible for carrying out design calculation of columns, vessels, reactors, heat exchangers, preparation of MR, PR and review of vendor drawing of the equipment Ammonia and Urea plant of the above **Fertilizer projects**.

Worked as Lead Engineer for end to end survey of Urea and Ammonia plants of FCI Gorakhpur starting from health check of equipment and piping up to submission of recommendation/report for replacement of equipment/piping susceptible to failure.

Under training from 1982 to 1983

EDUCATIONAL QUALIFICATION:

Examination/Degree	Board/Institution/University	Year of passing	Marks obtained	Class/Division
Matriculation	BSEB, Patna	1974	72%	First
Intermediate in Science	Patna Science college/ Patna University	1976	63.5%	First
B. Sc. Engineering (Mechanical)	BIT Sindri/ Ranchi University	1981	75.5%	First Class with Distinction