



S.A.V.SAGAR

B. Tech. in Civil Engineering (1992) from SV University & M. Tech in Geotechnical Engineering (1996) from JNTU India , Present position - Lead civil & structural engineer with WS Atkins group of SNC Lavalin

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Profile Summary

Key Experience:

- ⇒ Over 23 years of cross-cultural experience in Civil / Structural design (FEED, Pre bid and Detailed Engineering) for oil and gas facilities, Pipe lines, Petrochemical, Tank form and Fertilizer plants, water treatment plants. Green filed & brown field engineering, Enabling works.
- ⇒ Preparation of MTO for pre bid Engineering. Estimation of detail engineering man-hour for detail engineering projects and Resource planning.
- ⇒ Preparation of scope & specification for Geotechnical investigation, Survey, Bulk Material, Vetting of soil investigation reports.
- ⇒ PMC / Vetting of 3rd party documents as per end user requirements / tender package. Trouble shooting as per site requirements. Preparation of extra claims for EPC, / review of extra claims of consultant contractor. ODC (Over dimension consignment) survey.
- ⇒ Technical support in plant shut down. Site support during execution p
- ⇒ Experience in Multi-disciplinary taskforce, work sharing model. Interdisciplinary co-ordination and planning, Review & updating specifications & standers.
- ⇒ Monitoring sub-contractor performance with respect to Contract scope of work and pro-actively inform the engineering manager / Project Manager / Line Manager for any issues/concerns which can delay the schedule or affect the performance of work. Participation in the Project planning and Scheduling Activities. Participation in technical audits of other projects.
- ⇒ Analysis, design , detailing of RCC structures and steel structures such as Process / Technological structure, pipe rack, flare stack, shelters, industrial buildings (Substation , control room).Lifting analysis ,Material handling Design of foundation for Static equipment & compressors , tank pads, Cryogenic tanks & Mounded bullets.
- ⇒ Computer proficiency – STAAD PRO, MS OFFICE.
- ⇒ Conversant with BS, Euro Codes, ACI, ASCE, IS codes. Specifications of SHELL DEP,PIP, OISD, NFPA, ARAMCO

Areas of Strength:

- ⇒ Civil & Structural Engineering
- ⇒ Technical Consultation
- ⇒ Training & Development
- ⇒ Project Development & Execution
- ⇒ Resolving Problems

Key Skills Assessment:

- ⇒ Civil & Structural Engineering – Utilizes extensive knowledge of BS codes, Euro, ACI, ASCE, IS codes. Specifications SHELL DEP, PIP, OISD, NFPA, ARAMCO, customer troubleshoot technical issues.
- ⇒ Project Management (Exposure) – Supervises and ensures the effective development and execution from Concept to Detailed Engineering in project planning, to meet deadlines and achieve goals with minimal conflict.



WS ATKINS AND PARTNERS OVERSEAS, Sharjah, UAE

Lead Civil & structural Engineer

Oversaw projects from detail engineering. Expert guidance to successfully deliver on simultaneous projects. Ensured that all final project designs achieved client and end-user requirements.

Project : MGSE Phase 2, 3 packages Client – ARAMCO (EPC (\$1000 million project)

Dec'2015 to
Till Date

Civil & structural Lead Engineer for all 3 packages, it is EPC project. The Project scope is Pump stations, Valve stations, Pipe line support like culverts, Full thrust anchor block & Protection works & Site support



PL ENGINEERING, New Delhi

Project : The Rapid Tank Farm for Rapid Project Client – (PETRONAS) -EPC (\$ 581 million project)

(Jan 2015 to
December)

Civil & structural Lead Engineer (Pre bid & Detail engineering). It is EPC project. The Project scope is Tank farm consists of tank diameter varies 20 to 90 meter , LPG Horton spheres Mounded Bullet (60 meter long) , associated pumps , bund wall , pipe rack , sleepers , Pump shelters , feeder substations & Flare stack.

Project: Cairn India Ltd (Partially Green filed & Brown filed) PMC (Rs7 billion project)

(January 14 to
2015 March.)

Review of 3rd party deliverables, SOR for various packages as per project requirements (Well head engineering to oil gathering, pipe line stations). Proposing alternative options to avoid clashes, worked as lead engineer.

Project : EPC Power supply skids for water Injection wells at BUHASA Client – (Abu Dhabi Company for Onshore oil Operations–ADCO) - EPC

(May 14 to
December
2014)

This is brown filed project, design of new pre-engineered shelters for new power skids & transformer, lifting analysis, precast foundation associated works such as trenches pipe supports.

Project : Tank form, storage facility TEMA-GHANA- FEED

(April 14 to
July 2014)

Scope is Green field FEED for 2x8000 M³ Horton sphere tanks associated facilities such as Boil of gas compressor , Instrument air compressor , Substation , Control Room , Work shop , Administrative building , Loading arm , Process area Preparation of Bid document (scope & technical specifications) worked as Civil & structural Lead Engineer.

Proposals : Pre bid engineering

(June 2007 to June 2011) Estimation of detailed MTO for EPC & man hour for consultancy works. Worked as Lead proposal Engineer, for all EPC proposals, study of Bid document, preparation of TQ (Technical quarry), assumptions/ basis to internal client. Risk assessment (Civil & structure scope). For consultancy proposals, preparation of Tq, estimation of man hours along with deliverable list.

PL ENGINEERING, UAE (Abu Dhabi)

Project : Spiking Gas Compressor project at Shah Client – (Abu Dhabi Company for oil Operations–ADCO) - EPC (\$80 million project) (work sharing)
(October'12 to De13)

Civil & structural Lead Engineer (Pre bid & Detail engineering) at Abu Dhabi, It is EPC project. The Project scope is Compression of gas in 3 stages & separation of water vapour (Glycol package, GDU package to convert wet to dry gas). Consists of main & sub pipe rack, pre& after coolers, shelters & compressors, Substation. Work share between Abu Dhabi office & Indian Gurgaon office.

Project : Safe water, Chemical upgrade at ICAD -Consultancy (Brown filed)

(June '12 to Feb'13) Civil & structural Lead Engineer for the project. It is a Brown filed Consultancy project. The project scope is design of complete detail engineering for upgradation of safe water unit from 20 MTPD to 40 MTPD Chlorine capacities.

Project : Safe water, Chemical upgrade at ICAD FEED

(February '12 to May'12) Civil & structural Lead Engineer for the Feed. Site visit, Preparation of scope of work, Scheme for modification works, Preliminary calculations, Preliminary M.T.O.

Project : Tie in Works at SE Client – (Abu Dhabi Company for Onshore oil Operations–ADCO) –EPC (\$ 197 millions) (160 well heads)

(August11 to Nov13) Worked as Lead Engineer for this project, it is EPC project. The Project scope is design of complete detail engineering of pipe lines connecting to various well heads (Gas lift PWRI, ESP WAG, WI) from Christmas tree to Pipe line.

Proposals : Pre bid engineering

(August11 to 2013) Estimation of detailed MTO for EPC & man hour for consultancy works. Worked as Lead proposal Engineer at Abu Dhabi, for all EPC proposals, study of Bid document, preparation of TQ (Technical quarry), assumptions/ basis to internal client. Risk assessment (Civil & structure scope). For consultancy proposals, preparation of Tq, estimation of man hours along with deliverable list.

Engineering support for all Middle East projects

(August11 to December 2013) Engineering support for field design engineers, technical advice for late stage modifications in projects as per client requirements & guiding field engineer for OXY (occidental Petroleum Corporation Oman, NDIA (New Doha International Airport), Oman etc.

PL ENGINEERING, New Delhi

Project : **Propane / Butane / LPG import terminal (Client – Indian Oil Petronas Pvt. Ltd)**
(Oct'09 to
March'11) **- EPC (Rs. 3 billion project)**

Worked as Lead Engineer (Pre bid & Detail engineering) at Gurgaon, the Project scope is design of complete detail engineering of Blast resisting control room, cryogenic terminal, Cryogenic tanks, Equipment house, Mounded bullets, compressors, blending unit. Offsite facilities consists of Steam generation, water treatment, storage of raw water / treated water / process water. Cooling water towers. Power backup through DG, Flare gas will be burned in flare stack.

Project : **Aishwarya Oil field Development (Client – Cairn energy India PTY. Ltd) Brown Field Consultancy**

Responsible for all aspects of detailed engineering. Strengthening of existing pipe rack, modification / Extensions of platforms, column foundation for new equipment's, new pipe rack.

Project : **Mangala Development Pipe line Project, (Client – Petronas)-EPC**

Worked as Lead Engineer at Gurgaon, It is EPC project. The Project scope is connecting terminals & block valve stations, booster station by pipeline. Associated with project from Pre bid.

Project : **Sabah Sarawak Gas pipe Line Project, (Client – Cairn Energy India Ltd)-EPC**

Worked as Lead Engineer at Gurgaon, It is EPC project. The Project scope is connecting terminals & block valve stations, booster station by pipeline.

Project : **Delayed Coker Unit (Refinery), (Client IOCL, Baroda Unit) EPC**

Worked as Dy. Lead Engineer at Gurgaon. Project scope is detail engineering for cocker unit (Main cocker area & Mirox area) consists of composite structure for four main cockers. Coke pit, Pipe rack, Fire water & Oil tanks .Tech structure, vertical & horizontal equipment & pump.

Project : **Low density Polyethylene (LDPE) (Client – SABIC at Al-Jubail) Consultancy**

Worked as Dy. Lead Engineer at Gurgaon. Project scope is detail engineering for LDPE Facilities. This is work sharing with UK office.

PROJECTS & DEVELOPMENT INDIA LIMITED, Noida. (A GOVERNMENT OF INDIA COMPANY)

Project: **PMC works- Mini Refinery (Client ONGC)**

Associated as Lead engineer ,project scope is review of documents related to General civil, Civil & structural .It is Green field mini Skid mounded refinery of capacity 0.1MMTPA of Naphtha, SKO (superior kerosene) , HSD LSHS (low Sulphur Heavy stock), HFHSD and MTO (LAWS) . Majority of equipment are on skid mounded, vertical vessels, pumps, storage tanks, loading arm to reloadable other places on demand. Offsite such as DM plant / steam generation / water treatment plant.

Kandala to Loni pipe line (Client – GAIL) FEED

Project scope is finalization of Pipe line route corridor, location of Block valve stations & terminals. Preparation of feed document (Civil scope) & Bid document (Civil scope & specification) Preliminary calculations for feed drawings. Layout of block stations. GA drawings for Bid & Bulk MTO, response to Bidder TQ's.

Project : Phosphoric acid & sulphuric acid Complex, (Client IFFCO, Egypt) - Enabling works

Associated as Lead, project scope is detail engineering for intake well system, temporary structures, boundary wall, temporary switch yard, admin building, pipe supports, and land development works. (Enabling works). Preparation of estimates for deliverables / drawings, man-hours, bulk & detailed MTO for civil / Structural items for proposals projects based on preliminary layouts, preliminary calculations. Design of Intake well, cable trenches& shelters.

Project : Burrup Fertilizer Project, Australia (Client - Oswal Fertilizers Limited). EPC

Associated as Dy. Lead ,project scope is detail engineering for Ammonia plant & off site works , ETP (Effluent treatment plant) , water treatment plant , steam generation, Nitrogen unit & work shop .

Project : Energy saving scheme (Client – IFFCO, Phulpur) Brown Field Consultancy

Associated as Lead ,project scope is , additional equipment have to be placed in existing plat , to increase energy efficiency, modification of pipe rack / platforms / Pipe supports, Collection of data from site, preliminary designs at site for modification scheme ,Detail engineering for Strengthening of existing pipe rack , new ammonia converter ,column foundations for static & dynamic equipment.

Project : Namrup Revamp Project (Client - Hindustan Fertilizers Corporation Limited) Brown Field Consultancy

Responsibilities are collection of data of existing system, for preparation of scope modifications as per client requirements. Design of equipment foundations & structures. Modifications as per site requirements. Preparing design basis, Preparation of scheme for Modification of existing /new Technological structures, pipe rack for different units, Manpower Planning, Critical review of deliverables before issuing to client.

Project: PMC works- Vetting of 3rd party design documents.