

SUHAS M. KHATAWKAR

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❑ PROJECT COST ESTIMATION & COST CONTROL PROFESSIONAL

– offering **36 years** of expertise ❑

COST ESTIMATION | COST CONTROLLING | INTERNAL AUDITING

Companies associated with:

Petrofac 



A Navratna Company

Endorsed as **Senior Project Cost Estimation & Cost Control Lead**, attaining prolific knowledge in tracking, and controlling the project schedule and associated costs to achieve completion of project within time and budget. Champions in monitoring contract to ensure proper expense management and maximization of operating profits are being accomplished.

Facilitating as a trusted intellectual possessing thorough exposure in controlling and monitoring project total expenditure checking that all project expenditures are captured and properly recorded, periodically updating actual, committed costs, and rolling forecast with respect to the baseline according to company procedures and methods. Capitalizing on the **strong-interpersonal skills** in acquainting team members with policies, standards, and best practices for implementing the same in day-to-day activities.



PROFESSIONAL SYNOPSIS

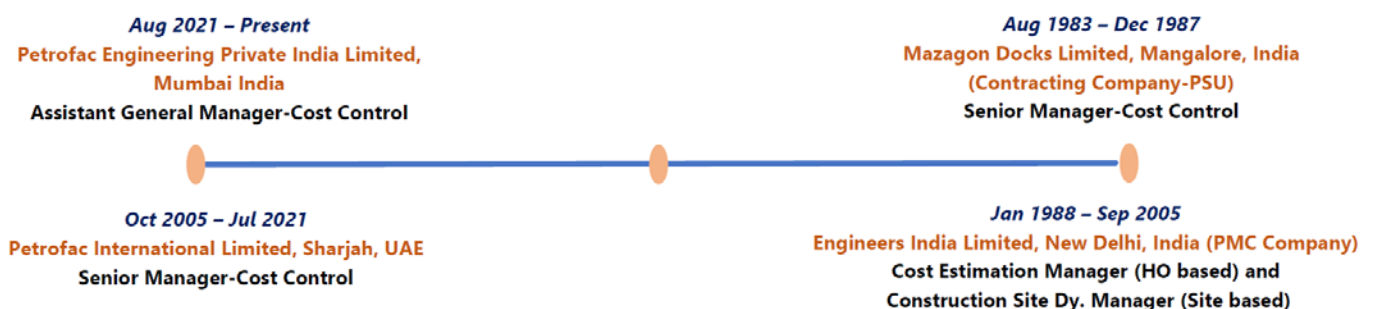
- Expertise in **Project Cost Control by coordinating and directing operational/financial team** in timely completion of deliverables of **annual corporate and audit plans**.
- Abreast in **developing audit procedures for the evaluation of the system** of internal controls adopted **within the project** by checking the accuracy and reliability of reporting data and monitoring adherence to prescribed policies.
- Hold credentials of **Capital Cost Estimation of Projects from class 5 to class 1 levels for various Oil & Gas Projects** along with cost estimation of MRs and Construction works tenders in assisting Customer for decision making at various stages of Projects.
- Expertise in **Cost Analysis, Cost Bench marking, Cost database build up, financial analysis etc** and developing independent cost estimates, to be used on current as well as new projects.

KEY SKILLS

Project Cost Estimation	Project Cost Control	Internal & External Auditing	Project Bidding	Project Budgeting	Management Reporting
Revenue Recognition	Foreign Currency Requirements	Contract Negotiation	Calculating Value of Work Down (VOWD)	Site Management	Reporting & Documentation



CAREER TIMELINE





CAREER REVIEW

Petrofac Ltd, Sharjah/Mumbai (EPC Contracting Company) || Oct 2005 – Present

Project Cost Control Engineer to Assistant General Manager- Cost Control

Key Deliverable:

- Responsible for establishing functional process and procedure on review of various project reports prepared by cost leads on budgets, costs & forecasts on compliance to standards, procedures and manuals.
- Manage internal functional presentations to update the latest corporate requirements & expectations as well as prepare bench marks on cost and technical data for supporting internal evaluation during proposal/bidding stage for estimates on new bids.
- Provide assistance to Project Team concerning cost management requirements on scope change identification, ensuring change is captured into latest forecasts and updated based on latest variations with suppliers as well as customer.
- Structure standard process & methodology for Proposal/Bidding department in working out cash flow with several scenario.
- Coordinate the audit agencies in making analytical studies for the purpose of closure of audits used by corporate in declaring results to market as trading updates.
- Initiate per project cost reporting requirements along with detailed back up workings, documentation and evidences for the direct interaction with internal and external audit agencies.
- Generate and issue the periodic financial information on annual budgets, VOWD% for revenue recognition, cash flow, foreign currency requirements by establishing process in cooperation with Finance Department.

Accomplishments:

- Involved in multiple projects ranging from USD 300m to circa USD 4,000m. Clientele: PDO, Shell, BG, BP, Saudi Aramco, KOC, KNPC, Sonatrach/JV, ADCO, Petro Canada, GASCO, Thai oil, BPCL, HPCL & Vedanta.
- Established detailed process and procedure on calculating value of work down (VOWD) from lowest level of the cost report to be used by Finance function as POC (percent of completion) for the purpose of monthly revenue recognition.
- Supported in presentation to top management on first set of cost & technical bench marks based on completed EPC projects.

Engineers India Ltd, New Delhi, India (PMC Company) || Jan 1988 - Sept 2005

Cost Estimation & Control Engineer/ Manager (HO based) and Construction Dy. Manager/ Engineer (Site based)

- Developed Project Cost Estimates for various cross country pipeline projects, gas processing projects and Ports & Terminals projects like, initial conceptual stage, project feasibility studies, detailed with $\pm 10\%$ range and finally close to as-built.
- Identified economic case between various alternatives based on Capex and Opex costs using NPV method for conducting optimizing studies of Pipeline projects to support decision making for Customers.
- Created cost estimates for POs & Sub Contracts as PMC role to support client in comparing suppliers & contractors bids for the purpose of award and regular project cost status reports for Clients from PMC perspective with emphasis on cost forecast and variance analysis.
- Negotiated with suppliers and contractors for quotes received beyond acceptable range for ensuring closure of awards and engaged in Cost Data bank update & maintenance at Function level that is predominantly used for all kinds of cost estimation.
- Responsible for supervision, coordination, certification of site related works for various oil & gas projects like cross-country Pipelines and oil Refineries.

Accomplishments:

- Engaged in numerous multi-million Dollar Project on cross country pipelines, gas processing, ports & terminals and refineries largely executed in India with a few international clients. Clientele: BPCL, HPCL, IOCL, GAIL, ONGC, Enron & Takreer,
- Established a detailed cost estimation procedure especially for cross country pipeline projects that is largely used in cost estimation of total Project costs for various reporting purpose as well as PO and Subcontract level for award purpose.



PRIOR CAREER REVIEW

Mazagon Docks Ltd, Mangalore Yard, India (Contracting Company-PSU) || Aug 1983 – Dec 1987

Operations based - Plant Head /Supervising Engineer – For offshore related Projects like:

- **CTE Coating works of offshore Pipelines at Mangalore Onshore Coating Plant**
- **Fabrication works of Offshore Platform Piping works at Mangalore Onshore yard**



PROJECTS (DURING PETROFAC TENURE)- COST CONTROL

SN	Project Name	Brief Scope	Client	Contract Value (USD in million)		Contract Dates		
				at Award	Current/ at Closure	Start	Planned Completion	Actual/ Fcast
	As Project Cost Lead:							
1	Harweel Cluster Ph-2, Oman	EPC Oil & Gas processing	PDO	944.7	1,577.7	05-Nov-05	18-Jul-10	30-Apr-14
2	Karachaganak 4th Train, Kazakstan	FEED, EP&CM of gas processing facilities	KPO	182.6	568.8	01-Sep-06	19-May-09	31-Dec-11
3	Hasdrubal Gas Proc. Facility, Tunisia	EPCCSU of gas processing & LPG production facilities	BGT	392.7	483.0	10-Nov-06	22-Oct-13	22-Oct-13
4	In Salah Gas Ph-I	EPC of gas compressions facilities at 3 Algerion fields	ISG	594.0	688.2	15-Oct-07	01-Oct-10	26-Jan-11
	As Functional Lead/Manager - Monitoring:							
1	Ebla Gas Plant, Syria	EPC for Gas treatment plant	Petro-Canada Palmyra	555.6	618.3	19-Mar-08	01-Apr-10	31-Jan-10
2	Jihar Gas Plant, Syria	EPCCSU of gas processing & LPG recovery/storage facilities	HPC	430.4	419.2	15-Apr-08	06-Feb-11	06-Feb-11
3	40" Gas Pipeline, Kuwait	EPC 40" Gas Pipeline	KOC	500.8	477.3	26-Oct-08	22-Aug-10	31-Aug-11
4	ASAB, UAE	EPC for oil production upgrade	ADCO	2,317.5	2,462.5	25-Jan-09	25-May-13	30-Jun-14
5	Karan, Saudi Arabai	EPC for utilities & Cogen pkg for gas processing plant.	Saudi Aramco	478.0	497.4	01-Mar-09	30-Dec-11	31-Dec-12
6	El Merk, Algeria (Groupement Berkine)	EPC for CPF for hydrocarbons	Sonatrach Anadarco	2,263.8	2,392.6	11-Mar-09	12-Nov-12	15-Nov-13
7	Kauther Ph2 Depletion Compression, Oman	EPC for recycling gas compression & GTG power station	PDO	409.1	417.5	28-Jul-09	24-May-12	25-Nov-13
8	Ruwais 4th NGL Train, UAE (JV with GS, Korea)	EPC for 4th NGL Train	GASCO	2,124.7	2,237.4	29-Jul-09	28-Jul-13	15-Feb-14
9	AGRP/SRU, Qatar	EPCC for Gas Sweetening Facilities at Mesaieed and Dukhan	QP	644.4	674.0	01-Apr-10	31-May-13	15-Sep-17
10	Majnoon (I), Iraq	EPCM for new early production system	Shell Majnoon	412.5	399.0	01-Jun-10	30-Apr-12	30-Jun-13
11	FG/GO Pipelines from MAA to Azhour & Shouiba power station, Kuwait	Installation of FG and Gas Oil Pipelines and Pumping Station	KOC	340.4	540.1	29-Jul-10	06-Jul-12	21-Dec-15
12	Water Injection Pipelines	EPCC for Effluent Water Injection and Seawater Injection facilities	KOC	405.0	441.2	09-Aug-10	07-Aug-13	04-Jul-14
13	ISG Southern field development, Algeria	EPCC of gas fields and 2nd stage compression implementation	Sonatrach/ Statoil/BP	1,176.2	1,416.7	01-Feb-11	01-Apr-15	31-Dec-19
14	CPF Phase-1 at Badra Oil Field, Iraq	EPCCSU of CPF Phase-1 at Badra Oil Field	Gazprom	329.8	339.2	12-Feb-12	29-Jun-15	21-May-16
15	North Tank Farm and Loading Arms Facilities	EPCC of Tank farms & other systems of Jazan refinery	Saudi Aramco	1,115.9	1,513.4	01-Dec-12	20-May-15	30-Jun-20
16	South Tank Farm Facilities	EPC of 7 Crude Tanks & related support facilities	Saudi Aramco	286.7	342.8	01-Dec-12	21-Nov-15	31-May-20
17	Expansion of Bab Gas Compression Project (EBGCP) Phase-2, UAE	EPC for the Expansion of Bab Gas Compression Project Phase-2	ADCO	484.6	519.3	13-Jun-13	12-Nov-15	31-Jul-17
18	Sohar Refinery Improvement Project, Oman (JV with Daelim)	EPCCSU of Sohar Refinery Improvement Project	ORIP	2,150.0	2,135.4	25-Nov-13	25-Nov-16	15-Aug-18
19	Central Procesing Facility, Khazzan Gas Project, Oman	EPC & Comm Support	BP Exploration	1,284.1	1,425.3	18-Feb-14	17-Feb-17	21-Nov-17
20	Separation & Inlet Boosting Facilities – Alrar, Algeria (JV with Bonnati)	EPCCSU Inlet Separation & Booster facilities	Sonatrach	479.8	499.8	26-Feb-14	31-Oct-16	30-Oct-20
21	CLEAN FUELS PROJECT - Refinery JV with Samsung (SECL)	Clean Fuel Refinery	KNPC	3,329.6	3,538.1	13-Apr-14	12-Jan-18	29-Dec-20
22	Surface Facilities, Manifold Network and Export Pipelines	EPCC & Start-up related to Nord Reggane Project	Groupement Reggane	960.2	1,034.2	11-Jun-14	10-Dec-17	31-Dec-17
23	New Gathering Centre, GC-29	EPC & Assist during Comm/SU&PT	KOC	652.9	639.5	24-Jul-14	22-Sep-17	15-Sep-19
24	LFHO Dev program Ph1 (60MOBPD) Consortium with CCC	EPCC&O&M till ramp up to 60MOBPD	KOC	3,297.3	3,092.6	27-Jan-15	25-May-19	15-Aug-20
25	Manifold, Group Trunkline System for the GCs 29,30 and 31	EPCC & Assist during PT&Recording	KOC	704.7	715.2	22-Jul-15	16-Dec-17	15-Jul-20
26	Fadhili Package 3 – Sulfur Recovery Units	EPCC & SU assistance	Saudi Aramco	1,681.3	1,699.2	12-Nov-15	19-Apr-19	21-Jun-20
27	Salalah LPG Project	EPC works	Salalah LPG	582.3	582.3	29-Dec-16	01-Jul-20	29-Jul-20
28	GC 32, New Gathering centre for SEK	EPC works	KOC	1,205.4	1,234.8	28-Mar-17	25-Sep-20	29-Mar-21
29	OPF Compression Project, Russia	EPC for OPF Compr Sakhalin Island, Russia	SEIC	677.9	961.3	30-Jun-17	30-Jan-23	21-Mar-23
30	EPC, Package 2 (Utilities and Offsites), Oman - JV with SCEL	EPC, for Utilities and Offsites related to Refinery project.	DRPIC	2,045.0	2,075.2	03-Jun-18	01-May-22	01-May-22
31	EPCC for Ghazeer Project	EPCCSU for Khazzan Central Processing Facility (CPF), Phase II.	BP Exploration	803.8	820.5	31-Dec-17	31-Oct-20	31-Aug-20
32	LSTK Package for NHT, PENEX & Balance of units for MS Block Project, Cochin India	EPCC for MS Block related units of the Cochin Refinery plant.	BPCL	136.2	121.1	09-Mar-18	08-Jun-20	27-Nov-20
33	EPCC-07 Pkge for SRU Block for HPCL, Visakh India	EPCC for SRU block Visakh Refinery Modernisation Project	HPCL	202.2	176.7	20-Mar-18	19-Sep-20	10-Jun-21
34	EPCC for Integrated Gas Surface Facilities, Barmer, India	EPCC for Integrated Gas Surface Facilities for Raageshwari Deep Gas Field	Vedanta Limited	197.8	193.2	28-Mar-18	27-Feb-20	31-Aug-20
35	EPC for Majnoon CPF2 Project, Iraq	EPCCSU & operation for 2 oil trains	Basra Oil Company	369.0	369.0	13-Aug-18	12-Jun-21	26-Nov-21
36	TINRHERT Field Dev. Project – EPC 1, Algeria	EPCCSU & 3months operation assistance for Inlet Separation and Boosting Facility in Ohanet	Sonatrach	493.9	489.2	15-Jan-19	15-Jan-22	15-Jan-22
37	EPC Contract for CFP at its Sriracha Refinery in Chonburi Province, Thailand - JV with Saipem & Samsung	EPCCSU for Clean Fuel Project (CFP) Refinery	Thai Oil Public Company Ltd (TOP)	3,726.4	3,672.5	01-Nov-18	30-Nov-22	30-Nov-22
38	EPC Contract for Ain Tsila Development Project, Algeria	EPC of CPF plant, Pipelines & others	Groupment ISARENE	998.6	1,004.6	30-Apr-19	30-Oct-22	30-Oct-22
39	ZADCO UZ 750-Island surface facilities (EPC 2), UAE - Consortium with DSME, Korea	EPCC & SU support for 3 island facilities	ZADCO	2,918.0	3,948.5	04-Apr-13	30-Dec-17	30-Apr-20
40	EPC for Qusahwira Field Development Phase II Project	EPC works	ADNOC Onshore	537.3	552.9	01-Apr-18	30-Apr-21	30-Apr-21
			TOTAL	45,823.4	50,006.7			



PROJECTS (DURING EIL TENURE)- COST ESTIMATION

SN	Project Description	Capacity/throughput	Project Cost	Validity
1	Inter Refinery product Pipelines for M/s Takreer of Abu Dhabi (16"/12"/10" - 720 km) DRF & Tender	3.2 MMTPA - Jet Oil 6.4 MMTPA - Multiproduct	US\$ 447.17 m	May'2004
2	Kochi - Bangalore re-gassified (onshore+offshore) LNG Pipeline (26"/22"/20"/12" - 1010 km) DFR only.	12.4 MMSCMD	US\$ 442.61 m	Jun'2002
3	Mundra - Bathinda Crude oil pipeline of M/s GGSRL (30" - 1025 km)	9.0 MMTPA - PH I 18.0 MMTPA - PH II	US\$ 444.99 m	Apr'2002
4	Central Asia Gas pipeline of M/s ONGC Videsh (42"/56" - 5000 km), Study only.	1.0 BCFD (42" - 5000 km) 2.0 BCFD (56" - 5000 km) 3.0 BCFD (56" - 5000 km)	US\$ 6,682.56 m US\$ 9,624.00 m US\$ 12,380.93 m	Mar'2002
5	KWSP Supply of clear water to M/s HMSSB of M/s GAIL (88" - 115 km)	90 MGD	US\$ 169.14 m	Feb'2002
6	Kochi - Bangalore re-gassified LNG Pipeline (36"/30"/20"/12"/10" - 600 km) DFR only.	28.6 MMSCMD	US\$ 521.61 m	Feb'2001
7	VVPL Ext. Upto Secunderabad of M/s HPCL (16"/14" - 225 km). DFR, Running	10 MMSCMD - PH I 30 MMSCMD - PH II	US\$ 636.28 m	Feb'2001
8	Manmad - Manglya multi-product pipeline of M/s BPCL (14" - 358 km)	1.052 MMTPA in PH I 2.500 MMTPA in PH II	US\$ 69.53 m	Jan'2001
9	Dahej - Bijaipur re-gassified LNG Pipeline (42" - 610 km) DFR, Running	23.9 MMSCMD	US\$ 612.00 m	Mar'2001
10	Vizag - Secunderabad LPG Pipeline of M/s GAIL (12"/10" - 605 km) Running	1.058 MMTPA	US\$ 69.5 m	Dec'2000
11	Dabhol - Gokak/Goa LNG pipeline of M/s Enron (36"/12" - 434 km) Feasibility only.	11.6 MMSCMD	US\$ 50.78 m	Nov'2000
12	India-Pakistan-Iran Gas Pipeline (48" - 2000 km) - Study only	50 MMSCMD	US\$ 2,485.26 m	Sep'2000
13	M'lore - B'lore LPG pipeline of M/s GAIL (14"/12"/10"/84"/6" - 650 km) - DFR only.	1.11 MMSCMD	US\$ 187.64 m	Aug'2000
14	Vadinar-Bina Crude oil Pipeline of M/s BURL (24" - 935 km) DFR	7.8 MMTPA	US\$ 254.9 m	Jan'2000
15	Cochin - Karur Product pipeline of M/s Petronet CCK (18"/14" - 300 km) - Completed	3.927 MMTPA (PH-I) 3.973 MMTPA - PH II	US\$ 72.61 m	Jul'1999
16	Dabhol - Talasari Gas pipeline of M/s Enron(MGCPL) (36"/30" - 405 km) Feasibility study only.		US\$ 266.15 m	Feb'1999
17	Koyali - Ratlam product pipeline of M/s Petronet (16" - 242 km) DFR only	2.5 MMTPA - PH I 3.5 MMTPA - PH II	US\$ 102.62 m	Oct'1998
18	Hazira - Dahej Gas pipeline of M/s IPCL (20" - 107 km each two lines) , DRF only.	5.25 MMSCMD	US\$ 86.02 m	Aug'1998
19	Mangalore - Bangalore product pipeline of M/s Petronet MHB (20"/24" - 365 km), Completed.	5.6 MMTPA (PHASE-I) 8.5 MMTPA (PHASE-II)	US\$ 134.24 m	Aug'1998
20	Bhatinda - Pathankot product pipeline of M/s HPCL (	5.8 MMSCMD	US\$ 160.31 m	Mar'1998
21	Jamnagar - Loni LPG pipeline of M/s GAIL (16"/14"/12"/8"/6" - 1245 km) - Completed	2.5 MMTPA	US\$ 339.82 m	Sep'1997
22	Mumbai - Manmad Product Pipeline of M/s BPCL (18" - 250 km)- Completed	5.0 MMTPA	US\$ 131.93 m	Jun'1997
23	Vizag - Vijaywada Product Pipeline of M/s HPCL (18" - 350 km) - Completed	5.38 MMTPA	US\$ 134.45 m	Apr'1997



EDUCATION

Bachelor of Technology (Mechanical Engineering), Karnataka Regional Engineering College (now NITK), Suratkal, affiliated to Mysore University (then), in the state of Karnataka, India

Trainings, Seminars & Workshops:

- Welding Technology from 17 Aug 1983 to 08 Oct 1983 by Welding Research Institute (WRI) Trichy, India
- Welding and NDT from 20 Aug 1990 to 01 Sep 1990 by Welding Research Institute (WRI) Tiruchy, India
- Workshop on Enhancing Personality through Effective Communication and Presentation Skills from 9th to 10th Dec 1999 by The Associates Trainers & Management Consultants, New Delhi, India
- 40 hours of Planning course from 19 Apr 2002 to 21 May 2002 by Engineers India Limited (Departmental) Management & Leadership Development Program Mar 2019 (5 days) by Petrofac Academy, Sharjah
- **Gave Presentation on Project Cost Monitoring and Reporting on 31 Oct 2017 for AACE International, UAE section at Dubai.**



PERSONAL DETAILS

Date of Birth: 10th Nov 1960 | **Nationality:** Indian | **Languages Known:** English, Hindi, Marathi, and Kannada