BHADALE GROUP OF COMPANIES - IT AND REAL ESTATE

Nov 20 2019

Cost Engineering services Catalogue

Bhadale IT Developers Pvt. Ltd | Bhadale Real Estate Developers Pvt. Ltd (registration due)

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Bhadale Group of Companies

Bhadale Group of Companies consists of Bhadale IT Developers Pvt. Ltd and Bhadale Real Estate Developers Pvt Ltd.

1. **Bhadale IT Developers Pvt. Ltd** is an IT and Computer Engineering company

   This company provides consultation in areas of cutting edge technologies, research outsourcing, and software consultation related to data center and related engineering practices

2. **Bhadale Real Estate Developers Pvt. Ltd** is a Real estate company

   This company provides development of Infrastructure for IT Datacenter and allied sectors. It manages the engineering design, landscaping, civil architecture, presently serving internal projects.

Bhadale Group of Companies has aggressive programs in place to serve the niche market.

Bhadale IT Developers Pvt. Ltd Programs and Services

IT Division programs

1	Cloud Architecture
2	AI
3	Digital
4	Automation
5	R&D services
6	Engineering services
7	Mentoring Services
8	Data center services
9	Outsourcing

There are various services offered under each program, details are described below

IT Division program related services

Cloud Architecture

- Cloud Enterprise Architecture
- Cloud Business Architecture
- Cloud Information / Website data Architecture
- Cloud Solution Architecture
- Data center Virtualization and Cloud services (IaaS)
- Cloud Technical Architecture – Project specific
- Cloud ERP Solutions (SaaS, PaaS)
- Cloud Strategy and Transformation
- Cloud Systems Integration and consolidation
- Cloud Project Management
- Cloud Pre sales support
- Business Needs (RFI/RFQ/RFP assistance)

- Cloud Quality Initiatives
- Cloud Business Analysis
- Cloud Infrastructure Planning – hardware , network, storage , backup (IaaS, PaaS)
- Cloud business portfolio assessment services (workshops)

AI

- Artificial intelligence and advanced machine learning
- Intelligent applications, Intelligent things
- Conversational systems
- Mesh app and service architecture
- Adaptive security architecture

Digital

- Virtual reality and augmented reality: Brief capability, deliverables and service offering
- Digital twins
- Blockchains and distributed ledgers
- Digital technology platforms

Automation

- Robotic Process Automation
- IoT
- Manufacturing robots
- BPO call center robots
- Chatbots
- Remote workers
- Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc)

R&D services

- PHD mentor, buddy
- BPO - Outsourced work in areas of research areas related to IT and Computer Engineering

Engineering services (Only Engg)

- Engineering services for Data centers
- Engineering services for IT Departments
- Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc
- All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling

Mentoring Services

- IT Mentoring
- Engineering Mentoring
- Business Mentoring
- Mentoring for specials categories based on age, and disabled
- Mentoring for special professionals like Military and Govt officials under Govt Programs

Data center services (Engg + IT)

- Data center Engineering services
- Data Center IT Services
- Data center Security services
- Data Center QA services
- Datacenter Cloud services
- Datacenter compliances services
- Data center based business solutions

Outsourcing

- Insourcing
- Outsourcing
- Near sourcing
- Cloud sourcing
- BPO services
- IT specific services
- Engineering specific services
- Training specific services

Service details for Bhadale IT Developers Pvt. Ltd

Engineering Division programs – Engineering estimation & costing services

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Our offerings as per AACEI guidelines, Skills and knowledge of cost engineering and best practices

No	Name	Key component features / Use cases
1	Analysis and design of cost elements	We offer services that enable you to understand, analyze and better estimate the cost elements involved. Our key services are: • Cost Elements – material ,labor , & other • Cost element groupings- Cost center, Labor craft, Subcontracts, & Inventory • Types of costs- Direct , Indirect, fixed , variable, Inflation, & Depreciation • Cost Accounting – WBS- Army Cost Element Structure, & Industry templates • Cost management - Cost Estimating, Cost Trending, Cost Forecasting, & Life-Cycle Costing • Total Cost Management- TCM Process maps, strategic asset management and project control processes, Asset Life cycle, & project life cycle
2	Analysis and design of pricing elements	We offer services that enable you to understand, analyze and better estimate the price elements involved that help in design of effective pricing strategies. Our key services are: • Pricing strategies – Target based, unit / volume pricing, & demand-based • Sales and revenues – Target, margins based, & economic value based • Return on investment (ROI) – Investments, Time period, NPV, & interest rates • Return on sales (ROS) – Volumes, margins, downstream supply, & taxes • Break-even analysis – Period, units sold, profits, real values • Return on assets(ROA) – Total asset value, TCO, & leveraged assets • Gross Profit Margin Ratio – pre and post taxes, dividends, retained, & expenses

| 3 | **Analysis of material cost / life cycle** | We offer services that enable you to understand, analyze and better estimate the material true value/ scrap value, that help in design of effective material strategies. Our key services are:

Analysis of material types like-
• Raw materials
• Bulk materials
• Fabricated materials
• Engineered or designed materials

Bidding management –
• Material cost catalogue reviews
• Process cost reviews
• Industry cost reviews

Selection management –
• Choosing right material
• Right process for material end product
• Productivity and wastage based

Purchase management -
• Just-In-Time Inventory Techniques
• Economic Order Quantity
• Expediting
• Global Materials Decisions
• Specialized Plant Materials

Waste management –
• Material safety data sheets (MSDS)
• Environmental Regulations- Resource Conservation And Recovery Act (RCRA)
• Scrap value, Recycling & Disposal |
| 4 | **Analysis of labor cost** | We offer services that enable you to understand, analyze and better estimate the labor true value, that help in design of effective labor strategies. Our key services are:

Analysis of labor types like-
• Labor classifications - Direct Labor, Indirect Labor, & Overhead Labor

Analysis of labor cost types like-
• Labor cost types – based on classifications for various engineering entities, market cost catalogue rates, factory, floor, field rates, & expertise levels

Analysis of labor rate types like-
• Labor rates- Base Wages, Fringe Benefits, Medical & Life Insurance Benefits, Government Mandated Benefits, Engineer/Contractor Overhead and Profit, Overtime Wages, crew composition rates, Location based rates / estimating |

5	**Analysis and design of process / engineered solution**	We offer services that enable you to understand, analyze and better estimate the engineering of the men, material, time and money, that help in design of effective project strategies. Our key services are: • Product, Project, and Process Life Cycles engineering costs • CAD/ CAM/ CAE based services- related cost analysis • Prototypes, methods associated costs • Automation – robotics setup, costing • Production Health And Safety costs • Facility Layout costs • QA costs • Management costs • Investors views
6	**Analysis and design of Equipment, Parts, and Tools**	We offer services that enable you to understand, analyze and better estimate the engineering of the equipments, parts, and tools, that help in design of effective equipment strategies. Our key services are: Analysis of Equipment Value Categories like- • Replacement Cost New (new equipment cost), and Subcategories- Reproduction Cost, & Fair Value • Market Value (used equipment, secondary market value) and Subcategories, Fair Market Value-in-Place, Fair Market Value-in-Exchange, Orderly Liquidation Value, Forced Liquidation Value, Salvage Value/Part-Out Value, & Scrap Value • Equipment Condition – good, bad, excellent & fair • Equipment Market valuations – charts, depreciation, resale value • Calculating Residual Values
7	**Cost estimating**	We offer services that enable you to understand, analyze and better estimate the engineering project that help in design of effective strategies. Our key services are: AACE based five classes of estimatations- A Class 5 Estimate is associated with the lowest level of project definition (or project maturity), and a Class 1 Estimate is associated with the highest level of project definition Services based on Estimation Types- • Generic Cost Estimate Classification Matrix – defines the tasks for estimation types • Cost Estimate Classification Matrix for the Process Industries - defines the tasks for estimation types for processes • Estimate Input Checklist and Maturity Matrix for the Process Industries - defines the maturity Services based on estimating methodologies-conceptual and deterministic- Conceptual methods are typically used for Class 5 and Class 4 (and sometimes Class 3) estimates. They are often referred to as "order-of-magnitude" (OOM) conceptual estimation types:

- End-Product Units Method
- Physical Dimensions Method
- Capacity Factor Method
- Ratio or Factor Methods
- Parametric Method

Deterministic / Detailed estimates are typically prepared to support final budget authorization, contractor bid tenders, cost control during project execution, and change orders (Class 3 through Class 1 estimates).
deterministic estimation types:

- Take-off
- Custom COTS packages
- Software based detailed multi-disciplinary estimates

| 8 | **Planning and scheduling** | We offer services that enable you to understand, analyze and better estimate the engineering project that help in design of effective project planning. Our key services are:

• Analysis of planning tools and their cost **–** Project history, management / stakeholder needs, project complexity, team capability, investments, time and labor available

• Major elements of planning and related cost**-** Time planning, Scope of Work, Cost Planning, Resource Planning, Quality Planning, Capital planning, & Material planning

• Industry specific planning - Based on unique needs of each industry and project, we offer effective costing solutions that will be signed off by Chartered Engineers and Chartered Accountants

• Schedule development- We use various tools for developing schedules like Gantt Chart, CPM, PERT, Arrow Diagramming Method (ADM), Precedence Diagramming Method (PDM), & work breakdown structure (WBS) to name a few

• Scheduling techniques – We offer various services /techniques like Time calculations, Forward and Backward Pass, Forward and Backward Passes for Overlapping Relationships, Work Days and Calendar Days, Float, Critical Path and rescheduling

• Scheduling levels and reporting –We offer analysis and costing for Level 1 to 4, milestone level schedule, Early Start Dates Report, Total Float Report, Precedence Report, Schedule Plots, and custom report based on MIS needs/ engineering request

• Change management – We offer analysis and costing related to updating, approvals, impact, offsetting, opportunity cost, transition cost, sunk cost and redundancy |

| 9 | **Progress & Cost Control** | We offer services that enable you to understand, analyze and better estimate the engineering project that help in design of effective project control. Our key services are:

• We offer AACEI prescribed six methods for measuring work progress:
　Method 1—Units Completed
　Method 2—Incremental Milestone
　Method 3—Start/Finish
　Method 4—Supervisor Opinion
　Method 5—Cost Ratio
　Method 6—Weighted or Equivalent Units

• Analysis of earned value for fixed / variable budgets

• Analysis of Cost and schedule performance

• Analysis of Productivity – Success Index, Performance Expectancy Model, Waste Through Rework, (Determining Percent Complete, Productivity Measurement of Individual Work Tasks, Productivity Analysis at a Summary Level, Productivity Index)

• Analysis of Baselines - Budget Baselines, Schedule Baselines

• Statusing- Work Status, Cost Status, Time status, EV, & work completion

• Analysis, trending, and forecasting - The Cost and Schedule Performance Curves, Index Tracking, Analysis

• Control – Report generation, review progress, applying measures for effective performance |
| 10 | **Project Management** | We offer services that enable you to understand, analyze and better manage the project elements involved. Our key services are:

• Projects basics- Cost Management, Time Management, Human Resources management, Communications, & Life Cycle Functions Flowcharts
• Project organization structure – Matrix, Functional, Role/ function based
• Project Planning
• Project Labor Cost Control
• Leadership and Management
• Quality Management
• Value Analysis
• Strategic Asset Management
• PMI based processes – PM Process group and Knowledge Area mapping , Application of Agile Knowledge Areas |

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