

BARSYL
we innovate

DEPOT EXPERTISE

Engineering Excellence.
Powering Mobility.



ENGINEERING
EXCELLENCE



INNOVATION
DRIVEN



RELIABLE
SOLUTIONS



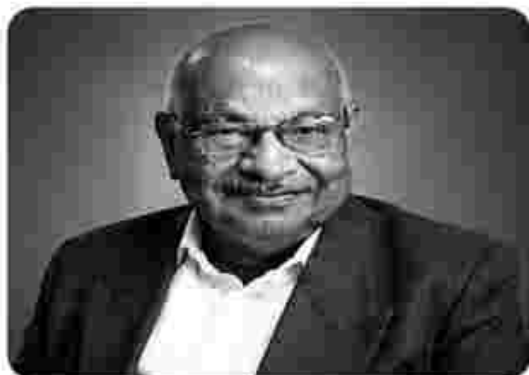
NATIONWIDE
IMPACT



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THE FOUNDERS



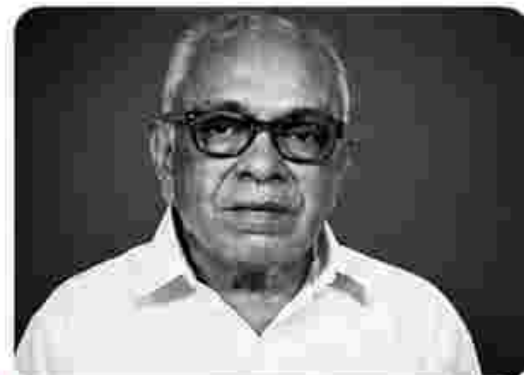
Late Shri. H.C. Shrivastava

Retd. Dy. Chief Engineer, IR



Late Shri. Arjun Pershad

Retd. General Manager, IR



Late Shri. T.V. Srinivasan

Retd. Chief Commercial Manage.
IR



Late Shri. M.P. Sankarnarayanan

Ex. MD, Ventra Locomotives



Late Shri. M.V. Srinivasan

Retd. Member Traffic, Indian Railway Board



Late Shri. M. Raja Rao

Retd. Chief Engineer, IR

DIRECTORS

BARSYL
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ABOUT US



Commenced operations in **1986**.



Specialized, **Rail Focused**, Indian Multinational



A **Global Consulting** organization with over three decades of specialized Railway experience.



Executed Projects in **18 countries** across **5 Continents**.



Industry Recognition:

- Iconic Brand of Year – 2023
- National Award for Consumer Insight of the year 2023.
- Winners of 5th edition of Iconic Brand of the year award 2023.
- INDIA 5000 BEST MSME AWARDS – 2023.
- Leaders of Global Magazine as 10 Most successful Consultant Companies of 2022
- SME Empowering India Awards – 2021
- Rail Analysis SME of the Year- 2020
- ISIDBI-ET India MSF Best Exporter Award – 2019
- Corporate Excellence Awards, CV Magazine - 2018
- INDIA 5000 Best MSME Awards – 2017
- India Small Giants, MSME's of India – 2013-2014
- BOI India SME 100 SME Award – 2012
- EPC World Award, Best Emerging Consultant – 2011
- EPC World Award, Best Railway Consultant - 2010

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GLOBAL PRESENCE



UNITED KINGDOM



SYRIA



TAIWAN



AUSTRALIA



INDIA



IRAN



FRANCE



SINGAPORE



GERMANY



MALAYSIA



UNITED STATES



BANGLADESH



ITALY



800+
Completed
Projects



22
Urban Transit
Assignments



200+
Railway
Professionals

ISO 9001

BUREAU VERITAS
Certification



0008



SPECTRUM OF SERVICES

End-to-End Solutions. Built on **Expertise**.
Driven by **Innovation**.



PLANNING

Strategic Insights.
Smarter decisions.



DESIGN

Intelligent design.
Future ready.



PROJECT MANAGEMENT

On time. On track.
On excellence.



ADVISORY

Expert guidance.
Lasting impact.



FREIGHT



SUBURBAN



METRO



INTER-CITY



TRACK



STRUCTURES



SIGNALING & TELE-COMMUNICATION



POWER SUPPLY & TRACTION



ROLLING STOCK



DETAILED DESIGN ENGINEERING FOR DIESEL-ELECTRIC LOCOMOTIVE MAINTENANCE SHED

Preliminary, Conceptual Plan and Detailed Design Engineering Services for Diesel-Electric Locomotive Maintenance Shed along with Training Centre and Hostel at Roza, Shahjahanpur District, Uttar Pradesh



- Detailed design engineering of Civil, Structural, Architectural, Mechanical, Electrical, Piping, Plumbing, IT.
- Design of Maintenance Shed to facilitate the maintenance of Locomotives in a safe condition, to minimize risks to the staff of the Shed.
- Design of training Institute which includes training facilities:
 - Air-conditioned lecture halls and lodging facilities.
 - Air-conditioned boarding facilities for 20 (twenty) trainees at a time.
 - One driving simulator.
 - One computer-based training module.
 - Any other facilities and infrastructure required for conducting the training



PROJECT STATUS:

Completed



CLIENT:

GE Diesel Locomotive Pvt. Ltd.

MASTER PLANNING & PRELIM DESIGN WAGON POH WORKSHOP- KAZIPET



- Design of Alignment and L- Section as per the bid drawing of depot layout.
- Alignment drawing marked with proposed retaining wall.
- Earthwork calculation for tracks in embankment, blanketing material and cutting, Turfing material along the sides of track.
- Prepared Draft BOQ's of Track, Bridges & various Structural elements.
- Supply of P. Way items, Ballast and track linking items of ballasted and ballast less track. Items related to RL Platform, CC bed under track outside shed area and retaining wall.
- Overhead electrification – yard Lighting.
- Signalling and Telecommunication works and preparation of Final BOQ's of S&T & OHE.



PROJECT STATUS:
Completed



CLIENT:
Shapoorji Pallonji and Company Private Limited



DETAIL DESIGN OF MOTERA DEPOT PROPOSED GANDHINAGAR — AHMEDABAD METRO PROJECT

Detailed Design of Motera Depot Proposed Gandhinagar —
Ahmedabad Metro Project. MEGA

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- Depot Location Size and activity stabling/ maintenance.
- General Arrangement Details
- Outline of Depot equipment and workshop area; Flood mitigation requirements
- Building and facility general arrangement
- Access road requirements
- Train control location and operation
- Location of stations plotted on Corridor map
- Basic GA of station
- Engineering measurements or sourcing of dimensioned drawings
- Assessed feasibility/Evaluating options for workshop or shed layout re-modelling.
- Collected information on Indian suppliers of car shed/workshop maintenance equipment and facilities.
- Developed layout drawings of car sheds/workshops etc.,



PROJECT STATUS:

Completed

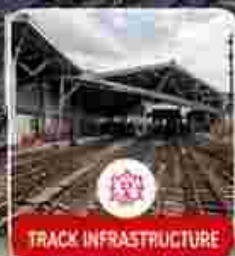


CLIENT:

Metro link Express for Gandhinagar and
Ahmedabad Company Ltd.



DEPOT WORKSHOP



TRACK INFRASTRUCTURE



TRAIN MAINTENANCE



EQUIPMENT & SYSTEMS



YARD & FACILITIES

PRE-BID SERVICES FOR DETAILED DESIGN OF EMU MAINTENANCE SHED

Preliminary Design of EMU Maintenance shed at 3 locations
(Nagpur, Jaipur, Tiruchirappalli).



- Collected data of other EMU Maintenance depot, review of drawing and documents.
- Conducted Site visits of 3 locations
- Prepared Master plan of Depot.
- Preliminary Architectural & Civil Design and drawing of depot and other infrastructure like storage yard, HSD yard, Fire water tank, electrical sub-station, Office building.
- Prepared Preliminary track Design and drawing/ Yard Layout.
- Preliminary MEP design and drawing.
- Design-based report with technical specifications regarding: Architectural, Civil, MEP, Track.
- BOQ and Cost Estimation.
- Final Design report



PROJECT STATUS:
Completed



CLIENT:
SIEMENS Limited



ENGINEERING
EXCELLENCE



INNOVATION
DRIVEN



RELIABLE
SOLUTIONS



NATIONWIDE
IMPACT



DESIGN SERVICES FOR

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SETTING A DEPOT FOR ROLLING STOCK TESTING FOR ALSTOM DEPOT

Detailed Design Services for Rolling Stock Testing Depot for Alstom, Sri City in Chittoor District, A.P



- Design of complete traction system as per the applicable and relevant standards & codes in consideration with the requirement of ATL.



- Design review of complete traction Substation (including Civil, Electromechanical and Earthing system.)



- Full Design and co-ordination Support for execution required for a fully functional and operational system related to the work of scope to be established.



- Prepared Tender documents and GFC.



- Technical Support during the project tenure



PROJECT STATUS:
Completed



CLIENT:
Alstom Transport India Ltd.



EMU DEPOT AND BATU GAJAH YARD AT MUKIM BATU GAJAH DAERAH KINTA BARAT-MALAYSIA

Design of EMU Depot and Batu Gajah Yard at Mukim Batu Gajah
Daerah Kinta Barat, Perak.



- Review of tender documents and with specific emphasis on the OHE (Overhead Electrification) systems requirements.
- Prepared GA & Preliminary Designs (OHE System) for the stabling line in the workshop, indoor equipment, and the lead line from Ipoh-Rawang main line, including interfacing arrangements.
- Prepared GA & Preliminary Designs of General Electrification requirements, including the substation.
- Prepared Sectioning & Wiring Diagram for the complete OHE system.
- Prepared Design Basis for all designs involved.
- Prepared detailed Bill of Materials for equipment and OHE-related works



PROJECT STATUS:
Completed



CLIENT:
K L Consult Associates SDN, BHD



LOCOMOTIVE FACTORY AT MADHEPURA & MAINTENANCE DEPOT AT SAHARANPUR & NAGPUR

Lenders Independent Engineer (LIE) Services for Madhepura Electric Locomotive Pvt. Ltd. (MELPL) to Manufacture, Supply and Maintain Locomotive Factory at Madhepura & Maintenance depot at Saharanpur & Nagpur.



1. Phase I – Project Review and Assessment

- Contract Documents; Project Agreements; Construction Schedule.
- Project Cost Estimates; Infrastructure Support.



2. Phase II – Construction Monitoring

- Conducted monthly on-site visits, monitor physical progress, and ensure alignment with approved designs.
- Certified capital cost drawdown requests; Conducted performance testing review.
- Submitted project completion report covering design compliance, interconnections, and regulatory adherence.



3. Phase III – Operations Monitoring

- Quarterly reports on operational performance vs. estimates.
- Advise on O&M compliance with agreements.
- Review O&M manuals, maintenance programs, and evaluate performance.



PROJECT STATUS:

Completed



CLIENT:

Interfleet Technology Limited



EMU MAINTENANCE FACILITY- MUMBAI, INDIA

Technical Assistance for EMU Maintenance Facility
upgrades - Mumbai Railway Vikas Corporation Ltd.



- Inspection of EMU car sheds, EMU workshops on WR/CR and interaction with officials for data collection regarding current practices, process, workflow, reliability data and costs.
- Carried out preliminary engineering survey of existing infrastructure at the workshop/ car sheds for preparation of layout plans.
- Assessed feasibility/Evaluating options for workshop or shed layout re-modelling for enhancing capacity.
- Developed detailed drawing and estimates for the proposed remodelling.
- Provided Information on Indian Suppliers of crashed/workshop maintenance equipment and facilities



PROJECT STATUS:
Completed



CLIENT:
Interfleet Technology Limited

EXISTING WORKSHOP EXTENSION WORKS AND NEW LOCO WORKSHOP-GABON

Detailed Cost Estimates and Design for Existing Workshop Extension Works and New Loco Workshop, SERTRAG Libreville, Gabon.



- Prepared conceptual design of coaching and wagon maintenance facilities
- Prepared Budgetary estimates for creating the railway infrastructure
- Prepared Budgetary Cost Estimates for the development of Railway facilities, including Civil Works, Mechanical, Electrical, Signaling & Telecommunication Works, and OHE Works
- Prepared all relevant drawings and estimates mandatory for the Detailed Project Report
- Carried out detailed design development and engineering of all railway components
- Comprehensive Bill of Materials (BOM) and Specifications for all materials to be purchased
- Estimates for Civil Works, S&T Works, OHE Works (Railway Premises and Client Premises) and Block estimates for alterations in Railway Premises



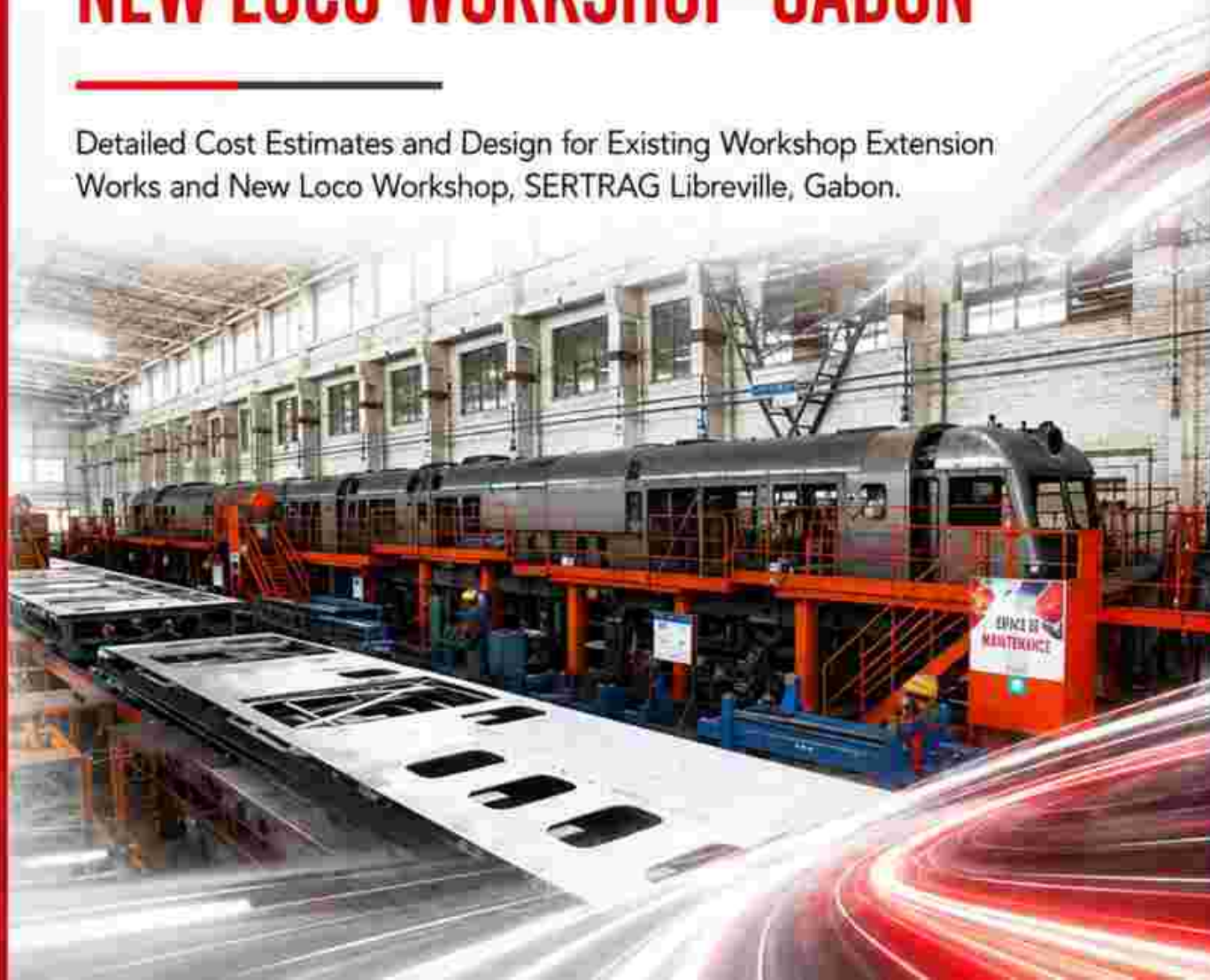
PROJECT STATUS:

Completed



CLIENT:

Nouvelle Gabon Mining SA



MEMU MANUFACTURING FACILITY - VANDE BHARAT FACTORY, LATUR

Project Management Consultant for setting up of Vande Bharat Rail Coach Factory at Latur, Maharashtra (India).



- Executed all civil foundations, structural steel works, and building construction as per design.
- Prepared and submitted detailed engineering drawings.
- Coordination with client and consultants for design approval.
- Conducted pre-commissioning and commissioning tests for all supplied equipment.
- Performance guarantee testing in-line with contractual requirements.
- Rectification of defects during the commissioning phase.
- Training client personnel for operation and maintenance of equipment.
- Progress reporting and project coordination with stakeholders.



PROJECT STATUS:
Completed



CLIENT:
Rail Vikas Nigam Limited (RVNL)

MEMU MANUFACTURING FACILITY, - KANPUR

Project Management Consultancy for setting up of MEMU Shed at Kanpur, Uttar Pradesh (India)



- Reviewed the Detailed Project Reports, including construction drawings and the contract
- Checked designs and drawings for functionality, general layout, constructability, and construction impacts, as well as maintainability and aesthetics.
- Reviewed proposals for S&T disconnections, block working, and non-interlock working
- Prepared and issued modified drawings for variations
- Coordinating planned activities on running lines and power blocks
- Inspected contractor's plant, facilities, and safety measures
- Prepared a Quality Assurance Manual for the project
- Inspected work quality, checking laboratory and field tests, and maintaining testing records
- Project Management Plan
- Training, and Ensuring public utility protection, and safe working practices related to excavation, signaling, telecommunication, and electrical cables



PROJECT STATUS:
Completed



CLIENT:
Rai Vikas Nigam Limited (RVNL)

BENGALURU SUBURBAN RAILWAY PROJECT (BSRP)

- K-RIDE

Detailed Design Consultancy (DDC) Services for 2 Maintenance Depots of Bengaluru Suburban Railway Project (BSRP) - K-Ride

- Design of Stations and Auxiliary Services.
- Design of Depot and Staff Quarters.
- Design of Architectural and E&M Works.
- Design of Building Services of E&M Works.
- Design of PST and SCADA System.
- Design Calculations for:
 - The area required for servicing shed, Auxiliary buildings etc.
 - The requirement of machinery and plant, capacity of each machine and the number of each machine giving the utilization factor.
 - Electric power requirement, feeder size, voltage drop, earthing requirement, fault level, illumination designs.
 - Water supply compressed air and other services requirement such as drainage etc. for workshop, servicing shed, stabling lines.
 - Choice of a particular structure whether R.C.C. or Trusses.
 - Foundations of the structure for the workshop, servicing shed and covered stabling lines.



PROJECT STATUS:

On-Going



CLIENT:

Karnataka Rail Infrastructure Development (K-RIDE)



2
MAINTENANCE
DEPOTS



4
CORRIDORS
COVERED



COMPREHENSIVE
DDC SERVICES



FUTURE-READY
RAIL INFRASTRUCTURE

KEY CLIENTS

International



Domestic



THANK YOU

Engineering Excellence. Powering Mobility.



BALAJI RAILROAD SYSTEMS P. LIMITED

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