**HARISH KUMAR BABRY**

E: hkbab123@hotmail.com | M: +20 1029475149 | Cairo, Egypt

<http://ae.linkedin.com/in/harishbabry> | https://askharish.com

**Telecommunication, Centralized Control & Signalling (TCS) Manager**

A successful career with diverse roles distinguished by commended performance in extensive **Design Management and testing/commissioning** across **Railways / METRO Rail, other** industry. **Possess a high degree of deadline-driven productivity, commitment to insure contractual KPI** with hands-on experience in front-end engineering, requirement analysis, contract reviews, sub-system design specification, cross reviews & system integration, project planning, installation and Commissioning.

**Technical Skills**

**Management & Leadership:** Engineering-Procurement-Construction (EPC), Railways System Engineering, Design Management, Detail Engineering, Procurement Management, System Installation Supervision, System Commissioning, System Assurance, Engineering Management, Inspections, Interface Management, Railways Telecom Engineering, Equipment Testing and Validation, System Integration, Project Management

**Rail Systems:** Multi Service Network, Tetra, LTE, PAS, PIS, Clock, Business LAN, Telephone, Wifi-Broadband Radio System, CBTC, SCADA, Track Switches, Platform Screen Door System, Signalling System, SDH, UPS, Cybersecurity.

**Oil & GAS Systems:** Transmission Network, LAN, Radio Network, PABX, CCTV, VSAT, Integrated Voice & Data Network System, Public Address & General Alarm, Security & Access Control System, Perimeter Tracking System, IP Telephony, WiMax, GSM, UHF Radio, Wifi, OPGW, Under Sea FO Cables, Structure Cabling, IT Network, Cybersecurity. Telecommunication Cabling, infrastructure Pathways and Spaces. Datacenter / Equipment room design.

**Technology:** SDH/PDH, CCTV, TCP/IP, MPLS, Fiber optics Network, DWDM, CAT7A, Network Management, GPS Clock, TETRA Radio, UHF Radio & Wi-Fi SQL, Linux, Mac, Windows Servers.

**Tools:** AutoCAD, Microstation, 3D Modelling, Visio, Excel, MS Project, Primavera, Smart Plant Instrument, link budgeting, Acoustic Studies, Company specific proprietary software/tools.

**Deliverables:** PM Plan, Writing Specifications, Developing Standards, Single line diagram, Schematic Diagrams, Interconnections, Layouts, Routing, Reports, Analysis, Design flaws investigation, Value Engineering, Bid Review report, Contract review, Vendor Evaluation, Costing, Manpower resource, Vendor document review, Bill of Material.

**Standards:** IEC, ITU, IEEE, ATEX, IR Standards,

**Professional Experience**

**Hill International | Cairo, Egypt | Nov 2020 – Present**

*US 5th largest project and construction management firm, participated in over 10000 project assignments. Hill is providing project management, design review and implementation supervision for a $4bn Cairo Monorail Project.*

**TCS Manager**Assigned responsibility for the management of Monorail System - Communication, Signalling, Platform Screen Doors, Track Switches, SCADA, Interfaces, System Assurance. In my role as a manager, I am responsible for outlining the goals of individual team members, supporting, and reinforcing the team's efforts to achieve Client KPIs.

* Approved over 1200 design documents/drawings on time before 80% of the project was completed by obtaining Contractor/Vendor/Supplier knowledge and a deep understanding of contract specifications.
* Investigated the Contractor’s technical variations in the project, providing feedback and recommendations.
* Collaborated with technical leads to understand the project technical challenges, and prioritizing team members' tasks accordingly.
* Executed in an agile manner in order to meet deadline-driven objectives.

**NK Consortium | Jaipur, India | Apr 2018 – Oct 2020***NK Consortium (NK-OC-JTC-NKI-OCI-RITES) is a Project Management Consultancy Services for Construction of Double Line Electrified Railway Track with Signalling & Telecommunication system and related infrastructure for Rewari-Vadodara section of Phase-1 of the Western Dedicated Freight Corridor*

**Chief Engineer Telecommunication**Assigned responsibilities for the management of DFCCIL – Telecommunication Systems. As a pro position I was responsible to deliver Telecommunication Systems for 300 Route kms of the freight corridor. Advise and assist DFCCIL in the preparation or procedural system. Participate in DFCCIL's review meetings to discuss the project performance.
Monitor overall construction schedule and evaluate progress of work to ensure delivery of work compliance with required standards. Identify delay in the process review the project completion schedule and assess

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compensation to contractor. Establish and roll out communication process/procedure for seamless delivery of project operations.

* Commissioned telecommunications systems in 300 km of freight corridors..
* Achieved timely approval of over 500 design documents, method statements by acquiring knowledge of contractors, vendors, and suppliers, as well as thorough knowledge of general terms and conditions and specifications.
* Conducted over 200 inspections on sites over the course of three years.
* Implemented the requirements in accordance with the specifications.

**Petrofac Emirates | Abu Dhabi, UAE | May 2013 – Mar 2018**

*Petrofac design and execute large-scale, complex - gas processing plants and clean fuels refineries EPC project. Petrofac managed the engineering, procurement, modules and buildings fabrication, transportation, construction, and commissioning of island surface facilities on four artificial islands, offshore Abu Dhabi of the Upper Zakum UZ750 project.*

**Principal Telecommunication Engineer**

Worked on Upper Zakum, UZ750 Project $3.7 Billion as Telecommunication Lead Engineer. Directed entire operations of 25-30 engineers and designers in line with organisation’s standards. Reviewed bid documents including techno-commercial vendor offers to estimate equipment, material, and resources. Assessed specifications / data sheets including radio study reports, acoustic study reports, plot plans, and general arrangement drawings. Devised and implemented project execution plans to deliver project in line with stakeholder expectations. Led development and deployment of telecom systems like Optical Fiber, SDH Transmission & Multiplexing, Multi-Discipline Interfaces, PABX, CCTV, Satellite Communication, Integrated Voice & Data Networking Systems, Public Address & General Alarm, and Security & Access Control Systems. Collaborated with QA for quality issues as per company ISO Quality procedures.

* Delivered over 4000 Engineering documents successfully.
* Introduced data analytics to improve accuracy by 30%.
* Contributed to the development of standards for telecommunication systems.

**Past Titles & Positions**

Mott Macdonald | Abu Dhabi, UAE | Jul 2012 – Apr 2013 – Lead Telecommunication Engineer

Petrofac International | Sharjah, UAE | Apr 2010 – Jun 2012 – Senior Telecommunication Engineer

Road & Transport Authority | Dubai, UAE | Jun 2008 – Mar 2010 – Senior Telecommunication Engineer

Atkins | Sharjah, UAE | Dec 2005 – May 2008 – Lead Design Engineer

Siemens | Delhi, India | Mar 2005 – Nov 2005 – Design Manager

Alcatel | Delhi, India | Dec 2001 – Feb 2005 – System Engineer

Datacraft Asia Limited | Delhi, India | Mar 2001 – Nov 2001 – Senior Executive

Jindal Infotech Limited | Delhi, India | Mar 2000 – Feb 2001 – Senior Engineer

Essel Shyam Communication Limited | Delhi, India | Feb 1998 – Feb 2000 – Senior Executive Engineer

ACE Microelectronics | Delhi, India | Jan 1997 – Jan 1998 – Technical Consultant

CMS Computers Limited | Delhi, India | Sep 1994 – Dec 1996 – Network Engineer

**Education**

**Academic Details**

**B.E. in Electronics & Communication Engineer** from Dr. Babasaheb Ambedkar Marathwada University, India in 1994

**Certification**

**Project Management Professional (PMP Number: 453570) in** 2007