



**BUREAU
VERITAS**



BUILDING AND INFRASTRUCTURE

TECHNICAL SERVICES :

- PROJECT MANAGEMENT SERVICES
- ADVANCE INSPECTION TECHNIQUES
- DIGITAL SERVICES

PROJECT MANAGEMENT SERVICES

PRE DESIGN MANAGEMENT ASSISTANCE



- Assistance in initial conception, feasibility study,
- Administrative and financial document drafting for small and medium projects
- Initial Concept Design Review Feasibility Report, Draft milestones schedule for submission to project owner

CONTRACT MANAGEMENT ASSISTANCE



- End to end service support (project launch to commissioning) which includes
- Tender and contract drafting, follow-up, compliance
 - Cost monitoring during execution, monitoring project progress

COST MONITORING



- We provide support in managing
- Cash Flow Forecast draft or Review ,
 - Contractor's billing review, Regular Cash-flow and financial statements
 - Periodic/on demand Reports, Liquidation Report draft

SCHEDULE MONITORING



- A thorough monitoring of tasks such as
- Drafting master schedule
 - Monitoring progress on milestone achievements
 - Periodic MIS reports

QA/QC MANAGEMENT



- Project Quality Plan (PQP)
- Inspection and Test Plan (ITP)
- Periodic Reports, Final Report
- Other required by local regulations (e.g. approval of as built documents, etc.

HSE MANAGEMENT ASSITANCE



- Draft or review of PSP, PEPP,
- Weekly reports to Owner/ Contractors
 - Equipment assessment
 - NCR



QA / QC

- Assessment and Evaluation / Preparation of Quality Plan & construction methodology
- Site supervision to ensure effective, implementation of Quality & Safety Plan, Ensure effective implementation of
- Construction methodology in line with the design and Specifications quality control checklist
- Independent, Unbiased and Transparent Inspection of processes and works executed

MATERIAL TESTING DIVISION

Construction Materials Testing Laboratories of Bureau Veritas in South Asia, facilitates testing services to the construction industries as an independent third-party laboratory which is in line with ISO/IEC 17025 standard

Our laboratories are capable of providing testing services on following building materials and products as per IS, ASTM, EN, ISO, other standard

Concrete, Steel, Aggregate, Bricks, blocks and Tiles, Cement and Cementitious products, Admixtures, Water and Water proofing compounds, others, Tiles, Sheets and composite materials

MATERIAL TESTING DIVISION (SPECIAL TEST)

- Tile adhesive test and Skid resistance
- Thermal conductivity test
- Stress relaxation test on pre-stressed strands
- Stone polishing value
- Volume expansion test on slag
- Temperature measurement on concrete
- Petrography and Glass content
- Water permeability
- RCPT and ACT
- Sand Equivalent Value
- Water Vapour Transmission
- Pull off Test (in Lab) ASTM D 4541
- Mechanical test on Welds



DESIGN REVIEW OF MEP, ARCHITECTURE & CIVIL STRUCTURES

Our design review services includes

- Design Review/Peer review of structural designs & drawings of residential, commercial and industrial structures & special structures
- Design review as per IS & BS / EN STANDARDS (Standards)
- Design review softwares -STAADPRO , ETABS ,SAFE ,RCDC AND AUTOCAD
- More than 1000 Structure Proof checking/peer review been completed with a dedicated team of more than 50+ Professional in last few years

ADVANCE INSPECTION TECHNIQUES



NON DESTRUCTIVE TESTING / REPAIR AND REHABILITATION TECHNICAL SERVICES

- Visual Inspection / Preliminary Reconnaissance Survey / Structural Condition Survey / Rapid Visual Screening of Structures
- NDT of Concrete / Steel / Composite Structures
- Condition Assessment / Health Assessment of Structures
- Load test on Slab / Bridges, Pile integrity test
- Material Specifications / BOQ of repairs / Restoration Scheme
- Feasibility check for additional floors / additional Loading
- Repair Monitoring of structures & Quantification of repairs & Certification of Structures

HEALTH SAFETY AND ENVIRONMENT

- Total HSE management solution for
 - Construction sites, Readymade garment industries
 - Hospitality industry (Luxury hotels, Corporate kitchens, others)
 - Residential complex (Elevator, Swimming pools, others)
 - Technical Due Diligence (TDD) & Environmental Due Diligence (EDD) of Electrical, MEP & HVAC as per Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)

• Training and HSE document drafting



Environment & Sustainability



Fire Life Safety Audit



Electrical Safety Audit



Asbestos monitoring / Survey Audit



Health, Safety, Security & Environment Audit



Cleanliness and Industrial Hygiene Audit



Legionella Risk assessment Audit



Thermographic Survey



Ergonomics survey Audit



Prevention of Spread infection Audit



Swimming Pool Risk Assessment



In service verification of Lift / Elevators / Crane / BMU / Lifting tools and tackles



HSE Management during Construction



Preparation of HSE Documents & Training



Technical Due Diligence (TDD) audit of Electrical, MEP & HVAC system.





STRUCTURAL HEALTH MONITORING (SHM)

Bureau Veritas, in partnership with OSMOS Group, provides next generation of integrated structural health inspection and monitoring services.



SHM meets the growing needs of clients (Owners, consultants or contractors) caused by the aging, budget limitation and increase of operations of their structures, by identifying any deterioration state.

Key features:

- High-end technology, based on Optical Strands, to monitor the safety of any structural assets (Such as bridges, dams or high-rise buildings), with any type of contexts (Such as visible damages, structural modifications or prevention).
- Driven by advanced analytics and algorithms to provide the client with relevant information on structural safety.
- Anticipation of emergency situations and possible operational disturbances.

REMOTE INSPECTION

Remote inspection using aerial drones

- Inspection of tall structures such as Chimney, others
- Aerial survey of bridges, dams, chemical plants
- Thermal imaging of critical areas
- SOLAR farm inspection
- Commercial property survey

Under water drones

- Inspection of submerged structures such as dams, turbine casing, railway bridges, others
- Inspection using validated methods
- On-site web based inspection tools



**BUREAU
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Shaping a World of Trust

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