

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED TERMS OF REFERENCE FOR CHIEF OPERATING OFFICER (COO)

The Chennai Shoreline Renourishment & Revitalization Private Limited (CSRRLPL) is a Special Purpose Vehicle (SPV) whose mission is to protect and restore the natural beauty and ecological richness of the Chennai shoreline while promoting sustainable development practices that preserve cultural heritage, enhance community engagement, and drive economic growth. We strive to ensure equitable access to the shoreline, create resilient coastal infrastructure, and facilitate recreational and educational opportunities, fostering a vibrant and sustainable coastal city for present and future generations.

The SPV aims to transform the Chennai Shoreline into a dynamic and sustainable ecosystem that fosters connectivity, community engagement, and economic prosperity. By linking the dispersed beaches along the coastline, the project seeks to create a continuous and accessible waterfront that encourages public interaction, cultural heritage preservation, recreation, tourism, provide a better coastal experience and reduce the risk profile of Chennai shoreline. This unified shoreline will serve as a resilient gateway to the city, welcoming both residents and visitors to experience the beauty and diversity of the coastal environment.

Position: Chief Operations Officer (COO)

Location: Chennai

Position Overview:

As the Chief Operations Officer (COO), you will be responsible for overseeing the day-to-day operations and ensuring the efficient and effective functioning of the organization. Reporting directly to the CEO, you will play a critical role in strategic planning, operational excellence, ensuring statutory compliance and successful execution of project. Your leadership, operational expertise, and ability to streamline processes will contribute to the overall success of the organization.

Key Responsibilities:

1. Operational Strategy and Planning:

- a) Collaborate with the executive team to develop and execute the company's operational strategy aligned with the overall business goals and objectives.
- b) Identify opportunities for operational improvement, process optimization, and cost reduction.

- c) Develop and implement operational policies, procedures, and guidelines to enhance efficiency and productivity.

2. Performance Management:

- a) Establish key performance indicators (KPIs) and metrics to measure and monitor the operational performance of different departments and teams.
- b) Analyse operational data, identify trends, and provide insights to drive performance improvement.
- c) Implement performance management systems and initiatives to motivate employees, enhance productivity, and achieve operational targets.

3. Operational Execution and Oversight:

- a) Provide leadership and guidance to department heads, ensuring alignment with organizational goals and objectives.
- b) Foster a culture of operational excellence and continuous improvement throughout the organization.
- c) Oversee the implementation of operational plans, projects, and initiatives to ensure timely and successful execution.

4. Process Optimization and Efficiency:

- a) Evaluate existing processes, workflows, and systems to identify opportunities for optimization and streamlining.
- b) Implement best practices, automation, and technology solutions to improve operational efficiency and productivity.
- c) Monitor industry trends and innovations to stay ahead of competition and adopt relevant operational practices.

5. Cross-Functional Collaboration:

- a) Foster collaboration and effective communication across departments to ensure smooth operations and alignment of objectives.
- b) Work closely with other executives, such as the CEO, CFO etc., to develop and execute cross-functional strategies.
- c) Coordinate with external stakeholders, partners, and vendors to optimize operational processes and achieve business objectives.

6. Risk Management and Compliance:

- a) Identify operational risks and develop risk management strategies to mitigate potential issues.
- b) Ensure compliance with applicable laws, regulations, and industry standards.

- c) Implement internal controls and procedures to safeguard company assets and maintain operational integrity.

7. Team Leadership and Development:

- a) Lead and mentor the operations team, providing guidance, support, and professional development opportunities.
- b) Foster a culture of collaboration, accountability, and continuous learning within the operations department.
- c) Set performance objectives, conduct performance reviews, and manage staffing needs within the operations team.

Qualifications and Requirements:

- a) Must possess a Master's degree in business administration, operations management, or a related field.
- b) Proven experience of at least 10 years as a COO, Vice President of Operations, or in a similar senior operational leadership role.
- c) Strong understanding of business operations, processes, and best practices
- d) Experience in similar sector is preferred.

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED

TERMS OF REFERENCE FOR CHIEF FINANCIAL OFFICER (CFO)

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Position: Chief Financial Officer (CFO)

Location: Chennai

Position Overview:

As the Chief Financial Officer (CFO), you will play a critical role in the financial management and strategic decision-making of the organization. Report directly to the CEO or Board of Directors, and will be responsible for overseeing all financial aspects of the company, ensuring financial stability, Cash Management, Investment Management, , evaluation and approval of projects and to driving growth.

Key Responsibilities:

1. Financial Strategy and Planning:

- a) Develop and execute the company's financial strategy in alignment with the overall business goals and objectives.
- b) Conduct financial analysis, risk assessments, and evaluation of investment opportunities to support strategic decision-making.
- c) Lead the budgeting, forecasting, and long-term financial planning processes.
- d) Co-Ordinate with other departments, international funding agencies including WB, ADB etc.

2. Financial Reporting and Analysis:

- a) Prepare accurate and timely financial reports, including income statements, balance sheets, cash flow statements, and financial projections.
- b) Conduct thorough financial analysis, identify trends, and provide insights to improve financial performance and cost efficiency.
- c) Present financial reports and analysis to the CEO, board of director and other higher officials

3. Financial Management and Control:

- a) Establish and maintain robust financial controls, policies, and procedures to safeguard company assets and ensure compliance with regulations
- b) Oversee financial operations, including accounting, billing, accounts payable and receivable, payroll, and tax compliance
- c) Monitor cash flow, manage working capital, and optimize the company's financial resources
- d) To prepare and monitor Budget and review on Quarterly basis, to flag variance in advance, assess and prepare mitigation measure and to ensure effective financial control mechanism

4. Risk Management:

- a) Identify and assess financial risks and develop strategies to mitigate them.
- b) Implement internal controls to safeguard against fraud, errors, and financial misstatements.
- c) Stay updated on industry trends, regulatory changes, and best practices in financial risk management.

5. Funding and Investor Relations:

- a) Manage relationships with financial institutions, investors, and stakeholders to secure financing, negotiate terms, and maintain positive partnerships.
- b) Coordinate fundraising activities, such as equity financing, debt financing, and capital investment.
- c) Communicate effectively with investors, providing regular updates on financial performance and growth initiatives.

6. Team Leadership and Development:

- a) Lead and mentor the finance and accounting team, fostering a culture of excellence, collaboration, and continuous improvement.
- b) Set performance objectives, conduct performance reviews, and provide professional development opportunities for team members.
- c) Foster cross-functional collaboration with other departments to ensure financial objectives are aligned with overall organizational goals.

7. Taxation, Audit & Compliance:

- a) Timely implementation of Internal & External audit and to ensure compliance of same
- b) To adhere to Financial Standards and compliance of GST, IT and other taxation policies
- c) Compliance with FERA / FEMA guidelines and other statutory requirements etc.

Qualifications and Requirements:

- a) Must possess MBA Finance / CA / ICWA with 15+ years of experience
- b) Proven experience as a CFO, VP of Finance, or in a similar senior financial management role.

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED TERMS OF REFERENCE FOR COMPANY SECRETARY

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Position: Company Secretary

Location: Chennai

Position Overview:

As the Company Secretary, you will serve as a key member of the executive team and provide support to the Board of Directors and senior management. Your primary responsibility will be to ensure compliance with corporate governance requirements, maintenance of corporate records, and facilitate effective communication between the Board, shareholders, and management. Additionally, you will play a critical role in corporate legal matters and contribute to the overall success and integrity of the organization.

Key Responsibilities:

1. Corporate Governance and Compliance:

- a) Ensure compliance with corporate governance regulations, laws, and best practices.

- b) Prepare and maintain corporate records, including board meeting minutes, resolutions, and official company records.
- c) Assist in the development and implementation of corporate policies, procedures, and guidelines.
- d) Stay updated on changes in corporate governance regulations and advise the Board and management on compliance requirements.

2. Board and Shareholder Relations:

- a) Organize and coordinate board and committee meetings, including agenda preparation, document distribution, and meeting logistics.
- b) Attend board meetings, record minutes, and ensure timely follow-up on action items
- c) Act as a liaison between the Board and management, facilitating effective communication and providing necessary information.
- d) Assist in the preparation and distribution of materials for board meetings, including financial reports, strategic plans, and corporate disclosures.
- e) Manage shareholder relations, including communications, annual general meetings, and proxy statements.

3. Corporate Legal Matters:

- a) Provide support in corporate legal matters, including contract management, corporate restructuring, and regulatory compliance.
- b) Collaborate with internal and external legal counsel to ensure legal compliance and mitigate legal risks.
- c) Assist in the drafting and review of legal documents, agreements, and corporate policies.
- d) Monitor changes in corporate laws and regulations and advise management on legal implications.

4. Corporate Record-Keeping and Filings:

- a) Maintenance of up-to-date corporate records, including articles of incorporation, bylaws, and shareholder agreements.
- b) Ensure timely and accurate filing of corporate documents with regulatory authorities, such as annual reports and statutory filings.
- c) Manage the organization's corporate database and document management systems.
- d) Coordinate the distribution of corporate materials to relevant stakeholders.

5. Ethics and Corporate Culture:

- a) Promote and uphold ethical standards and a strong corporate culture throughout the organization.
- b) Facilitate training programs and awareness initiatives on corporate governance, ethics, and compliance.
- c) Serve as a resource for employees on matters related to corporate governance and ethical conduct.

Qualifications and Requirements:

- a) Must possess ACS qualification & minimum of 10 years of experience.
- b) Proven experience as a Company Secretary, Assistant Company Secretary, or in a similar role.
- c) Legal background or experience in corporate law is a plus.

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED

TERMS OF REFERENCE FOR SENIOR URBAN PLANNER

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Position: Senior Urban Planner

Location: Chennai

Job Summary:

As a Senior Urban Planner at CSRR, you will play a key role in shaping the development and revitalization of shoreline areas. You will be responsible for leading and managing the urban planning aspects of shoreline development projects, ensuring they align with sustainable and inclusive design principles. Your expertise in urban planning, land use regulations, and environmental considerations will contribute to the successful implementation of shoreline development initiatives.

Key Responsibilities:

1. Project Planning and Design:

- a) Lead the development and implementation of comprehensive urban planning strategies for shoreline development projects.
- b) Conduct site analysis and assessments to inform land use planning, environmental conservation, and infrastructure design.
- c) Collaborate with architects, engineers, and other professionals to create sustainable and aesthetically pleasing designs.

2. Land Use and Zoning:

- a) Analyze land use regulations, zoning ordinances, and environmental guidelines relevant to shoreline development projects.
- b) Assess the feasibility and compliance of proposed projects with local, regional, and national planning policies and regulations.
- c) Provide recommendations and guidance on land use designations, density, setbacks, and open space requirements.

3. Environmental Considerations:

- a) Integrate environmental considerations into shoreline development plans to ensure ecological preservation and sustainable practices.
- b) Evaluate the impact of development on coastal habitats, water quality, and natural resources.
- c) Develop strategies to mitigate environmental risks and promote ecological resilience.

4. Stakeholder Engagement:

- a) Engage with stakeholders, including community members, local authorities, and regulatory agencies, to gather input and address concerns.
- b) Organize and facilitate public meetings, workshops, and consultations to ensure inclusive decision-making and community involvement.
- c) Communicate planning proposals and project updates effectively to stakeholders and the general public.

5. Economic and Social Analysis:

- a) Conduct economic and social impact assessments of shoreline development projects.
- b) Evaluate the potential benefits and challenges related to job creation, economic growth, and social well-being.
- c) Recommend strategies to enhance economic opportunities, affordable housing, and community amenities.

6. Project Management:

- a) Oversee the planning process from inception to completion, ensuring adherence to project timelines, budgets, and quality standards.
- b) Coordinate with internal and external stakeholders, including consultants, contractors, and regulatory bodies, to achieve project objectives.
- c) Monitor project progress, identify issues, and implement corrective measures as needed.

7. Policy and Advocacy:

- a) Stay updated on urban planning trends, policies, and best practices related to shoreline development.
- b) Advocate for sustainable and resilient shoreline development policies at local, regional, and national levels.
- c) Collaborate with government agencies, professional organizations, and academic institutions to advance urban planning knowledge and practices.

Qualifications and Skills:

- a) Must possess Master's degree in Urban Planning.
- b) Should have 10 years experience in working on masterplans, local area planning, waterfront planning, etc.
- c) Proficiency in GIS software, urban modeling tools, and other planning-related software is preferred.
- d) Project management experience, including the ability to lead and coordinate multidisciplinary teams.

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED

TERMS OF REFERENCE FOR ENVIRONMENTAL PLANNER AND CLIMATE ANALYST

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Position: Environmental Planner and Climate Analyst

Location: Chennai

Job Summary:

As an Environmental Planner and Climate Analyst at CSRR, you will play a vital role in ensuring environmentally sustainable and climate-resilient shoreline development projects. You will be responsible for assessing the environmental impacts, conducting climate risk assessments, and developing strategies to minimize the ecological footprint of development activities. Your expertise in environmental planning, climate analysis, and sustainability practices will contribute to the successful implementation of shoreline development initiatives.

Key Responsibilities:

1. Environmental Impact Assessment:

- a) Conduct environmental impact assessments (EIAs) to identify potential environmental risks and impacts of shoreline development projects.
- b) Evaluate the effects of development on coastal ecosystems, water quality, wildlife habitats, and protected species.
- c) Develop strategies and measures to mitigate adverse environmental impacts and promote ecological conservation.

2. Climate Risk Assessment:

- a) Conduct climate risk assessments to identify and evaluate the vulnerabilities of shoreline projects to climate change impacts.
- b) Assess the risks associated with sea-level rise, coastal erosion, storm surge, and other climate-related hazards.
- c) Develop adaptation strategies to enhance the resilience of shoreline infrastructure and ecosystems to climate change.

3. Sustainability Planning:

- a) Integrate sustainability principles and practices into shoreline development projects, considering social, economic, and environmental factors.
- b) Collaborate with design and engineering teams to optimize resource efficiency, energy performance, and waste management.
- c) Recommend sustainable design strategies, such as green infrastructure, low-impact development, and biodiversity conservation.

4. Regulatory Compliance:

- a) Stay updated on local, regional, and national environmental regulations, policies, and guidelines relevant to shoreline development.
- b) Ensure compliance with environmental permits, licenses, and regulatory requirements throughout the project lifecycle.
- c) Coordinate with regulatory agencies to obtain necessary approvals and permits for development activities.

5. Stakeholder Engagement:

- a) Engage with stakeholders, including local communities, government agencies, and non-governmental organizations, to gather input and address environmental concerns.

- b) Organize and facilitate public meetings, workshops, and consultations to promote community involvement in environmental planning processes.
- c) Communicate environmental planning proposals, findings, and project updates effectively to stakeholders and the general public.

6. Data Collection and Analysis:

- a) Collect, analyze, and interpret environmental and climate-related data, such as water quality, biodiversity, and climate projections.
- b) Utilize Geographic Information Systems (GIS) and other analytical tools to map and visualize environmental and climate data.
- c) Prepare technical reports, assessments, and environmental impact statements summarizing findings and recommendations.

7. Environmental Management:

- a) Develop and implement environmental management plans to guide sustainable practices during construction and operation phases.
- b) Monitor and evaluate the effectiveness of environmental mitigation and management measures.
- c) Conduct environmental audits and compliance inspections to ensure adherence to environmental commitments.

8. Collaboration and Consultation:

- a) Collaborate with internal teams, including architects, engineers, and project managers, to integrate environmental considerations into project design and implementation.
- b) Consult with external experts, consultants, and researchers to gather specialized knowledge and insights.
- c) Participate in interdisciplinary teams and engage in knowledge sharing and capacity building activities.

Qualifications and Skills:

- a) Must possess Master's degree in Environmental Science, Environmental Planning, Climate Science, or a related field. A master's degree is preferred.
- b) Should have 5 years of experience in environmental planning, climate analysis, or a related field, preferably with experience in shoreline or coastal projects.

- c) Strong knowledge of environmental planning principles, climate science, and sustainability practices.
- d) Familiarity with environmental impact assessment (EIA) methodologies and regulatory frameworks.
- e) Proficiency in GIS software, climate modelling tools, and data analysis techniques.
- f) Excellent analytical and problem-solving skills.

**CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE
LIMITED
TERMS OF REFERENCE FOR SOCIOLOGIST**

The Chennai Shoreline Renourishment & Revitalization Private Limited (CSRRPL) is a Special Purpose Vehicle (SPV) whose mission is to protect and restore the natural beauty and ecological richness of the Chennai shoreline while promoting sustainable development practices that preserve cultural heritage, enhance community engagement, and drive economic growth. We strive to ensure equitable access to the shoreline, create resilient coastal infrastructure, and facilitate recreational and educational opportunities, fostering a vibrant and sustainable coastal city for present and future generations.

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Position: Sociologist

Location: Chennai

Job Summary:

As a Sociologist at CSRR, you will play a key role in understanding and addressing the social and community aspects of shoreline development projects. You will conduct research, analyze social dynamics, and provide recommendations to ensure the projects are culturally sensitive, inclusive, and responsive to the needs of the community. Your expertise in social sciences and community engagement will contribute to the successful implementation of shoreline development initiatives.

Key Responsibilities:

1. Social Research and Analysis:

- a) Conduct sociological research to understand the social, cultural, and demographic characteristics of the communities affected by shoreline development projects.
- b) Analyze social data, trends, and patterns to identify potential impacts, opportunities, and challenges.
- c) Stay updated on relevant sociological theories, methodologies, and best practices.

2. Community Engagement and Stakeholder Consultation:

- a) Facilitate community engagement activities to involve local residents, community groups, and other stakeholders in the shoreline development process.
- b) Organize and conduct focus groups, interviews, and surveys to gather community perspectives, needs, and aspirations.
- c) Collaborate with project teams to ensure community input is incorporated into project planning and decision-making.

3. Social Impact Assessment:

- a) Assess the potential social and cultural impacts of shoreline development projects on the local community.
- b) Identify and evaluate potential risks, benefits, and trade-offs associated with the projects.
- c) Develop strategies and recommendations to mitigate negative impacts and enhance positive social outcomes.

4. Inclusive Design and Planning:

- a) Provide sociological input into the design and planning processes to ensure inclusivity, accessibility, and social sustainability.
- b) Advocate for equitable distribution of resources, amenities, and benefits in the project planning phase.

- c) Collaborate with architects, urban planners, and other professionals to integrate sociological considerations into the design of public spaces and amenities.

5. Policy and Regulation:

- a) Stay informed about relevant social policies, regulations, and guidelines related to shoreline development and community development.
- b) Provide insights and recommendations to ensure compliance with social and cultural requirements.
- c) Advocate for socially responsible practices and policies within the organization and the broader development community.

6. Collaboration and Communication:

- a) Collaborate with interdisciplinary teams, including engineers, architects, environmental consultants, and planners, to integrate sociological perspectives into project planning and execution.
- b) Communicate sociological findings, recommendations, and implications to internal stakeholders, clients, and regulatory authorities through written reports, presentations, and other communication channels.
- c) Build and maintain effective relationships with community leaders, organizations, and local authorities to foster collaboration and facilitate project success.

Qualifications and Skills:

- a) Should have Master's degree in Sociology, Anthropology, or a related field, with a focus on community development or social impact assessment. Ph.D is desirable.
- b) Must have 5 years of work experience in conducting sociological research, community engagement, and social impact assessment in the context of development projects.

CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION PRIVATE LIMITED

TERMS OF REFERENCE FOR STRUCTURAL ENGINEER

The Chennai Shoreline Renourishment & Revitalization Private Limited (CSRRPL) is a Special Purpose Vehicle (SPV) whose mission is to protect and restore the natural beauty and ecological richness of the Chennai shoreline while promoting sustainable development practices that preserve cultural heritage, enhance community engagement, and drive economic growth. We strive to ensure equitable access to the shoreline, create resilient coastal infrastructure, and facilitate recreational and educational opportunities, fostering a vibrant and sustainable coastal city for present and future generations.

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Position: Structural Engineer

Location: Chennai

Job Summary:

As a Structural Engineer, you will play a crucial role in the design and construction of shoreline development projects. You will be responsible for ensuring the structural integrity, safety, and sustainability of shoreline structures, such as piers, seawalls, and waterfront buildings. Your expertise in structural engineering principles, codes, and construction practices will contribute to the successful implementation of shoreline development initiatives.

Key Responsibilities:

1. Structural Design and Analysis:

- a) Conduct structural analysis and design for shoreline structures using relevant engineering software and codes.
- b) Develop detailed structural drawings, specifications, and calculations.
- c) Ensure that designs meet safety standards, environmental regulations, and project requirements.

2. Shoreline Stability Assessment:

- a) Evaluate the stability of shoreline areas and assess the impact of wave action, erosion, and geotechnical factors on structures.
- b) Conduct geotechnical investigations and recommend appropriate foundation design and stabilization measures.
- c) Develop strategies to mitigate the effects of climate change, such as sea-level rise and increased storm intensity.

3. Construction Oversight:

- a) Collaborate with architects, contractors, and other engineering disciplines to ensure the successful execution of shoreline development projects.
- b) Review construction plans and specifications to ensure compliance with design intent and industry standards.
- c) Conduct site visits and inspections to monitor construction progress, quality, and adherence to engineering specifications.

4. Structural Safety and Performance:

- a) Assess the structural safety and performance of existing shoreline structures and recommend retrofitting or rehabilitation measures.
- b) Conduct structural condition assessments and prepare reports outlining findings and recommendations.
- c) Monitor and evaluate the long-term performance and durability of shoreline structures.

5. Project Coordination and Collaboration:

- a) Coordinate with multidisciplinary teams, including architects, civil engineers, and environmental consultants, to integrate structural design with overall project objectives.
- b) Collaborate with regulatory agencies to obtain necessary permits and approvals for shoreline construction projects.

- c) Participate in design and construction meetings to provide technical expertise and resolve engineering-related issues.

6. Quality Assurance and Compliance:

- a) Develop and implement quality assurance procedures to ensure the structural integrity and compliance of shoreline structures.
- b) Conduct regular reviews and inspections to verify compliance with design standards, specifications, and applicable codes.
- c) Stay updated on industry advancements, building codes, and emerging technologies related to structural engineering.

7. Technical Documentation:

- a) Prepare technical reports, feasibility studies, and engineering documentation related to shoreline development projects.
- b) Document design decisions, calculations, and structural analyses.
- c) Prepare presentations to communicate complex engineering concepts to stakeholders.

Qualifications and Skills:

- a) Must have a Master's degree in Structural Engineering or a related field.
- b) Proven experience in structural engineering, preferably with a focus on coastal or waterfront structures for minimum 5 years.
- c) Strong knowledge of structural engineering principles, codes, and design standards.
- d) Familiarity with geotechnical engineering principles and shoreline stabilization techniques.
- e) Excellent problem-solving skills and the ability to analyze complex structural issues.
- f) Strong attention to detail and ability to ensure accuracy in design and construction documents.
- g) Effective communication skills, both verbal and written, to collaborate with team members and present technical information to non-technical stakeholders.
- h) Experience with project management and coordination is a plus.

**CHENNAI SHORELINE RENOURISHMENT & REVITALIZATION
PRIVATE LIMITED
TERMS OF REFERENCE FOR MEP ENGINEER**

The Chennai Shoreline Renourishment & Revitalization Private Limited (CSRRPL) is a Special Purpose Vehicle (SPV) whose mission is to protect and restore the natural beauty and ecological richness of the Chennai shoreline while promoting sustainable development practices that preserve cultural heritage, enhance community engagement, and drive economic growth. We strive to ensure equitable access to the shoreline, create resilient coastal infrastructure, and facilitate recreational and educational opportunities, fostering a vibrant and sustainable coastal city for present and future generations.

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Position: MEP Engineer

Location: Chennai

Position Overview:

As an MEP Engineer, you will be responsible for overseeing the mechanical, electrical, and plumbing systems of shoreline development projects. Your role will involve designing, coordinating, and managing MEP systems to ensure the efficient and sustainable operation of buildings and infrastructure in coastal areas. Your expertise in MEP engineering principles, codes, and industry best practices will contribute to the successful implementation of shoreline development initiatives.

Key Responsibilities:

1. MEP System Design:

- a) Design mechanical, electrical, and plumbing systems for shoreline development projects, including buildings, infrastructure, and utilities.
- b) Develop system layouts, schematics, calculations, and specifications in accordance with applicable codes and standards.
- c) Integrate sustainable design practices, energy-efficient technologies, and renewable energy systems into MEP designs.

2. Coordination and Collaboration:

- a) Collaborate with architects, structural engineers, and other design professionals to integrate MEP systems seamlessly into overall project design.
- b) Coordinate with internal and external stakeholders to ensure the effective installation and integration of MEP systems during construction.
- c) Participate in design and coordination meetings to provide technical expertise and resolve MEP-related issues.

3. HVAC Systems:

- a) Design heating, ventilation, and air conditioning (HVAC) systems suitable for coastal environments, considering the impact of saltwater corrosion, humidity, and temperature variations.
- b) Size and select HVAC equipment, such as chillers, air handling units, and cooling towers, to meet project requirements and energy efficiency goals.
- c) Perform load calculations and energy modeling to optimize HVAC system performance.

4. Electrical Systems:

- a) Design electrical systems, including power distribution, lighting, and fire protection, for shoreline buildings and infrastructure.
- b) Specify electrical equipment, such as transformers, switchgear, and lighting fixtures, to meet project needs and safety standards.
- c) Conduct electrical load calculations, voltage drop analyses, and lighting simulations.

5. Plumbing and Fire Protection Systems:

- a) Design plumbing and fire protection systems, considering water supply, drainage, stormwater management, and fire safety requirements.

- b) Specify plumbing fixtures, pumps, piping, and fire suppression equipment in compliance with local codes and regulations.
- c) Conduct hydraulic calculations and pipe sizing for plumbing and fire protection systems.

6. Energy Efficiency and Sustainability:

- a) Integrate energy-efficient strategies into MEP designs, such as passive solar design, daylighting, and energy management systems.
- b) Evaluate and recommend renewable energy systems, such as solar photovoltaic and geothermal systems, for shoreline projects.
- c) Perform energy modeling and analysis to optimize energy performance and achieve sustainability goals.

7. Construction Oversight:

- a) Review MEP shop drawings, equipment submittals, and material samples to ensure compliance with design intent and specifications.
- b) Conduct site visits and inspections to monitor the installation and performance of MEP systems.
- c) Coordinate with contractors and subcontractors to resolve MEP-related issues during construction.

8. Commissioning and Testing:

- a) Oversee the commissioning and testing of MEP systems to verify their proper functioning and compliance with design standards.
- b) Develop commissioning plans, perform functional tests, and document system performance.
- c) Address any deficiencies identified during the commissioning process.

Qualifications and Skills:

- a) Must possess a Bachelor's degree in Mechanical Engineering, Electrical Engineering, or a related field. A master's degree is desirable.
- b) Proven experience in MEP engineering, preferably with experience in coastal or waterfront projects for a minimum of 5 years.
- c) Strong knowledge of MEP engineering principles, codes, and industry standards.
- d) Proficiency in MEP design software, such as AutoCAD, Revit, etc.