

Inhouse Facilities/Infrastructure

The central laboratories of the consultancy at Bhubaneswar H.Q.:-

- Geo-ICT Lab.
- Testing lab (Soil, Water & Material)
- Chemical and environmental lab.
- Survey data download / analysis lab.
- Local Lab facilities also exists at Branch Offices at Baripada, Balasore, Keonjhar, Jeypore, Jharsuguda, Berhampur and Khariar.
- Quality control tests at site thru Mobi-Lab (Vehicle based testing equipment loaded facility)
- Suvadra Training Centre and OKCL (Govt. of Odisha) ICT Training Centre.



Smart City Related Consultancy Services Completed

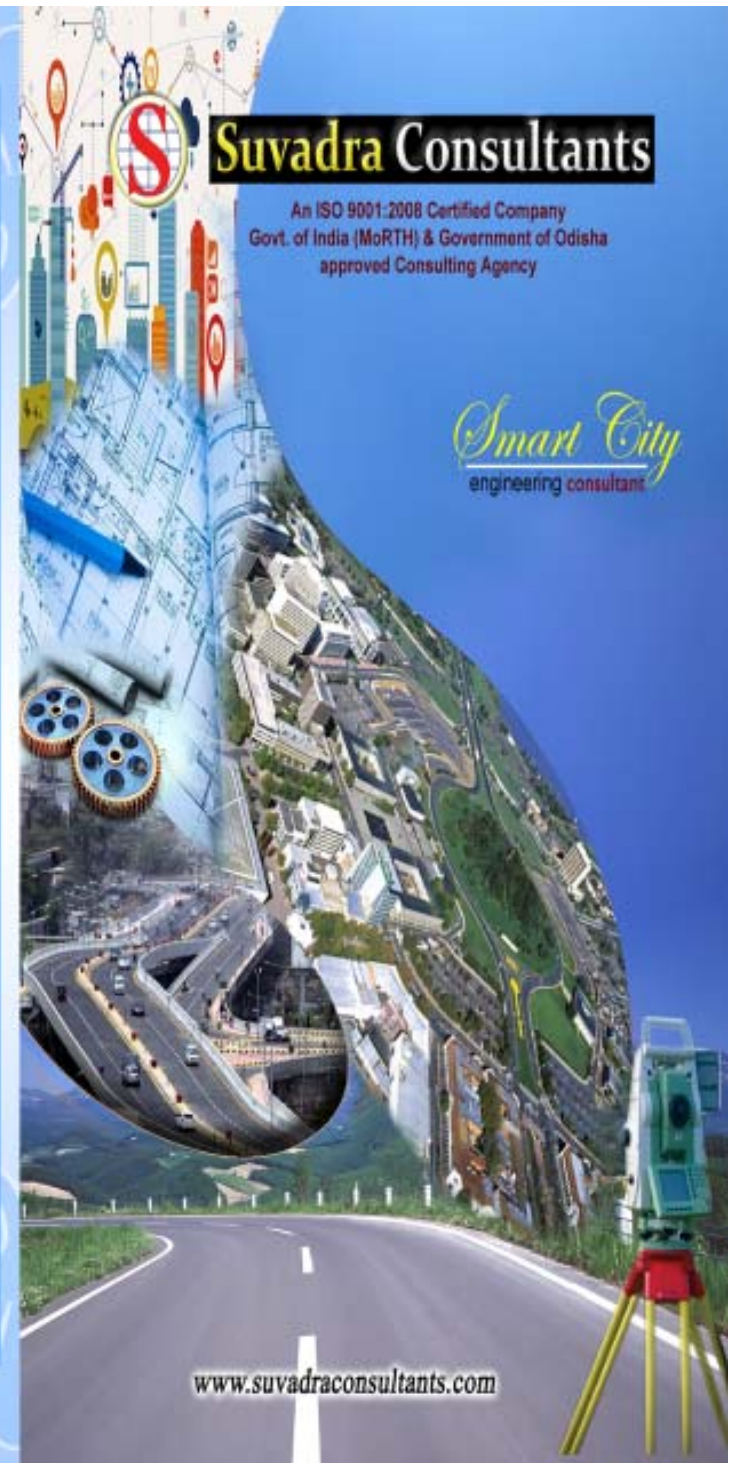
- Detailed Project Report (DPR) of BRO complex at village Badli, Jodhpur
- Design, Survey, Estimates for STP, Sewage System for MH and Adjoining Area in Army area Jodhpur
- Detailed Engineering and Project Management Consultancy Services for Construction of Technical building and allied services at Hattigor, Bangdubi & Lohitpur in North East under CCE Narangi
- Survey, Geotechnical Investigation, Structural Design for road on embankment, Elevated road of 1.5 Km. length bridges etc. for Director General Naval Project, Visakhapatnam
- Consultancy services for Preparation of detailed project reports for MIG-29K and Hawk-Ajt simulator infrastructure at INS Dega, NAD, Visakhapatnam
- Improvement of water supply to Saheed Nagar area with provision of 24 x 7 Water Supply System under JBIC, Japan
- Design & Commissioning of Gravity Sewers in Sewerage Dist - I & II of Bhubaneswar City
- DPR preparation for Sewage treatment plant at Secunderabad Army Containment. Besides the above we have completed DPR of NH, PWD & PMGSY Roads (more than 6000 Km.) and mega water supply scheme preparation of florid affected villages in Nuapada district and seven other cities in Odisha.



Clients



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Suvadra Consultants
 An ISO 9001:2008 Certified Company
 Govt. of India (MoRTH) & Government of Odisha
 approved Consulting Agency

Smart City
 engineering consultant

www.suvadraconsultants.com



MANDATE



- SURVEY AND MAP PREPARATION / SPATIAL DATABASE CREATION / MAP AND DRAWING PREPARATION
- ARCHITECTURAL & STRUCTURAL DRAWINGS / DESIGN
- HIGHWAY, RAILWAY & BRIDGE ENGINEERING
- TOPOGRAPHIC & HYDROGRAPHIC SURVEY
- FEASIBILITY STUDY AND DPR PREPARATION FOR HIGHWAYS & BRIDGES.
- DPR FOR WATER SUPPLY
- QUALITY CONTROL (QAP)
- ENVIRONMENTAL MONITORING & ANALYSIS
- MAP DIGITIZATION & VECTOR CONVERSION, DATA INTEGRATION.
- PROJECT MANAGEMENT CONSULTANCY
- REMOTE SENSING BASED MAPPING AND RESOURCE MAP PREPARATION
- GPS/DGPS BASED SURVEY
- GEO-INFORMATICS BASED CPR, ASSET AND UTILITY SURVEY.



A **smart city** uses advance engineering applications, digital technologies and communication technologies (ICT) to enhance quality and performance of urban services. The Three pillars on which a city rests are its Institutional Infrastructure, Physical Infrastructure and Social Infrastructure.

At Suvadra Consultant we have requisite infrastructure and manpower for implementation of Smart City engineering projects. Our expertise are DPR preparation for road network planning, water supply network Planning, Architectural and Structural drawings / Design, Geo-ICT Applications, environmental Monitoring and Project Management Consultancy. Our expertise area is listed below.

- Consulting and Architectural Services – Preparation of blueprints for smart city buildings, landscaping, network expansions and energy efficient solutions.
- DPR preparation - for transport network planning, water supply, plan preparation and water quality monitoring.
- Data and content – Geo-ICT based database creation, multisource data integration and modeling for decision support scenario creation.
- Sustainability :- Solutions in areas of efficient road network and traffic movement, water supply and conservation, recycling, waste management, sewage and sewerage treatment.



EMPANELMENT



- ISO Certified Firm- 9001 : 2008 Company
- National Small Industries Corporation Ltd. (NSIC/MSME).
- Ministry of Road Transport and Highways, Govt. of India (MoRTH).
- Govt. of Odisha Approved testing Laboratory
- Military Engineering Services (MES) Govt. of India.
- Defence Research & Development Organisation (DRDO) Govt. of India
- Jharkhand State Rural Road Development Authority-(JSRRDA).
- Chhattisgarh govt. Mineral Resources.
- Jharkhand state Mining Department.
- Odisha Space Application Centre (ORSAC) Govt. of Odisha.
- Odisha Mining Corporation (OMC).
- Approved agency for DPR preparation by Rural Development Dept. and PWD Dept. of Govt. of Odisha.
- National Aluminium Company (NALCO).
- Govt. of Odisha (OKCL) approved agency for e-learning in ICT sector.



MAJOR ACHIEVEMENTS

- Feasibility study and DRR of Road projects Odisha (500 Km.), Arunachal Pradesh (100 Km.), Sikkim (600 Km.), West Bengal (70 Km.)
- Road DPR, MoRD (PMGSY), Odisha (8000 Km.) and Sikkim (450 Km.)
- Water Supply and Sewerage Projects - DPR preparations for the "Rural Piped Water Supply" for RWSS in 10 Block/Towns of Odisha.
- Geotechnical Survey and Soil Investigation for more than 500 companies of the country.
- Material Testing for all major Govt. Departments, C.P.W.D. and public sector undertakings.
- Soil Investigation and Structural Design of foundation for power and Telecommunication Towers.
- ETS and DGPS survey in linear mode (8000 Km.) and area survey (1500 Km.)



INFRASTRUCTURE



- In-house facilities for planning and design of all types of Townships, Builtup-area and Commercial Complexes.
- Architectural services, specializing in Residential homes and Apartments, Ammenties, Utility and Service sector Plan preparation along with support services for Commercial Complex, Fire Frightening, Structural System.



- ETS / GPS / DGPS / Auto Level / PDS based Survey
- Topographic Survey / Terrain Data Collection
- Alignment Survey (Power / Telecom / Road / Rail / Canal etc.)
- Site investigation of Soil, Rock, Fault, Bedrock and Sub-soil etc.
- Design for construction of Road, Building, Bridge, Flyover, Underpass, O.H. Tanks etc.



- Soil Stratification and Foundation Depth Analysis.
- Soil Sample Testing
- Load-bearing capacity evaluation
- Cross section/ Longitudinal section preparation and Design for discharge



Surveying, mapping and monitoring of natural resources and environment in various scales. Projects relating.



- Digitization and Spatial Data. Design and Development of Geo-databases.
- Data Migration, Data Transformation and Integration from multiple sources as per the Geo-data model.
- Integrate GIS, CAD and Global Positioning Systems (GPS) based services.
- Preparation of Contour maps, Spatial maps, Thematic maps, Landscape maps, and Site maps.



- Integrated design, planning and project management services for Buildings, Transportation, Telecommunications, Commercial, Institutional, Recreational and Water Supply projects.

- Survey, Design, Estimate, Construction, Supervision and Planning for major structures, which are locally adapted relating to Road, Water supply, Telecommunication, Infrastructure and Buildings.



- EIA and EMP, Environmental Audit and Monitoring, Water and Waste Water Treatment and Recycling System Design, Safety Related Risk Assessment, Environmental Site Assessment, Effluent

Treatment, Water Supply and Distribution Network, Solid Waste Management, Landfill Site Selection etc.

- In house testing laboratory for Soil, Water, Air and Materials; support the activities of Environment Division.



Soil Exp.

RS & Geo-informatics

PMC

Environment Division

Architecture & Structure

Survey & Geo-technical