



# NANDHA ENGINEERING COLLEGE

## (Autonomous)

Affiliated to Anna University Chennai + Approved by AICTE + Accredited by NBA-NewDelhi

Pitchandampalayam, (P.O), Vaikkalmedu, Erode - Perundurai Road, Erode - 638 052

Phone : 04294-225585, 223711, 223722, 226393 Mobile : 73737 23722 Fax : 04294 - 224787

Website : [www.nandhaengg.org](http://www.nandhaengg.org)

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### 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum

#### Professional Ethics

S.No	Course Code	Course Name	Cross cutting issues relevant to Professional Ethics into the Curriculum
1.	17CHX12	Employability Skills	Types of human behaviour self-esteem, self-confidence
2.	17CEZ04	Road Safety Management	Environmental studies – Safety management - roles and responsibilities, Provisions of Motor Vehicle Act and NGO's in prevention of accidents, Identification of accident prone location – Prioritization – Investigation safety considerations on completed roads
3.	17CAX15	Organizational Behaviour and Entrepreneurship	Personality, Factors influencing Personality, Misbehaviour
4.	17CAX12	Professional Ethics	Human Values, Engineering Ethics, Engineering as social experimentation, Engineers responsibility for safety, Global issues
5.	17CAX20	Technical Documentation	Professional Society Engineering Committees, Principal Standard Organizations
6.	17BAP02	Personal and Professional Ethics	Personal Ethics, Professional Ethics, Corporate Ethics
7.	17BAP03	Research Immersion Project	Research Immersion Project
8.	17BAP05	Community Immersion and Entrepreneur Immersion Project	Leadership development with service-learning <ul style="list-style-type: none"><li>• Assist you in applying these leadership skills within school and community settings, including taking on roles of social change within the community</li><li>• Hands-on experience working with various community issues such as hunger, homelessness, violence prevention, environmental issues, education, health, and youth issues, social justice, etc.</li><li>• Provide opportunities for you to work together toward creative solutions for community problems of 30 hours.</li></ul> Contents of Report <ul style="list-style-type: none"><li>• Select the service required communities and plan for service strategy.</li><li>• Implement the service strategy.</li><li>• Write a brief report and attach the live photographs with all its benefits and scopes.</li></ul>



  
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9.	17BAX61	Disaster Management	Introduction, Disaster identification, Risk preparedness, Goals and sharing, Disaster and objectives development: of ISDR Programme, Development plans Risk and disaster management, Alternative to dominant approach, disaster-development linkages, Principle of risk partnership Trigger mechanism, constitution of trigger mechanism, risk reduction by education, disaster information network, risk reduction by public awareness, Seismic waves, Earthquakes and faults, measures of an earthquake
10.	17BAX62	Environmental Management	Environment Management, Environmental Management System, Environmental Ethics, Trade and Environmental Management, Role of NGOs
11.	17BAX65	Business Ethics, Corporate Social Responsibility and Governance	Business Ethics, Corporate Social Responsibility and Governance
12.	17BAX73	Ethics in Sports	Ethics in Sports
13.	17BAX77	Psychology in Sports	Personality, Learning, Meaning, Types, Personality Traits of Sports Person. Definition, Theories on Learning, Classical and Operant conditioning Emotions, Goal Setting - Definition, Relation between emotions and Sports performance, why sportsmen respond emotionally, Meaning, Goal Setting Principles, Relation between Goal Setting and Performance in Sports
14.	17BAX92	Disaster Management and Mitigation	Types of disasters-Phases of disaster management Visual inspection and study of available documentsIntroduction-Community planning - Legal frame work - Institutional mechanism - Schemes and grants on DM
15.	15MEZ02	Project Management	Project Management, interpersonal and behavioural context, Project Planning, estimating, cost management
16.	15EDX05	Maintenance Engineering	Maintenance Systems, reactive, preventive, predictive or proactive systems, condition based maintenance, maintenance techniques such as RCM, TPM & CMMS, Asset Planning and scheduling of activities in maintenance
17.	15CA202	Organizational Behaviour	Functions of attitudes, changing attitudes and values
18.	15CAX06	Professional Ethics	Human Values, Engineering Ethics, Engineering as social experimentation, Engineers responsibility for safety, Global issues
19.	15CAX16	Technical Documentation	Professional Society Engineering Committees, Principal Standard Organizations



  
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20.	15CAX19	Ethical Hacking	Journaling and it requirement, standardized logging criteria, Laws and Ethics, Legal Policies
21.	13GEZ13	Project Management	Project Management, interpersonal and behavioural context, Project Planning, estimating, cost management
22.	13CEZ02	Human Behaviours at Work	Key board design measures for preventing in work related musculoskeletal disorders, prevention of manual handling injuries in the work place
23.	13CEX17	Economics and Business Finance for Civil Engineers	Economics of ecology, environment, energy resources
24.	13CAX07	Ethical Hacking	Journaling and it Requirements

## Gender

S.No	Course Code	Course Name	Cross cutting issues relevant to Gender into the Curriculum
1.	17MEX26	New Venture Planning and Management	Social Stability, major challenges in the way of development of rural industries, women entrepreneurship
2.	17BAB05	Organizational Behaviour	Organizational effectiveness Developing Gender sensitive workplace
3.	17BAP01	Executive Communication	Gender sensitivity in communication
4.	17BAX14	Micro Finance	Gender issues
5.	15BA105	Organizational Behaviour	Organizational effectiveness Developing Gender sensitive workplace
6.	15BA111	Executive Communication Laboratory	Gender sensitivity in communication
7.	15BAX13	Micro Finance	Gender issues
8.	15MEX25	New Venture Planning and Management	Social Stability, major challenges in the way of development of rural industries, women entrepreneurship
9.	13MEX17	New Venture Planning and Management	Social Stability, major challenges in the way of development of rural industries, women entrepreneurship

## Human Values

S.No	Course Code	Course Name	Cross cutting issues relevant to Human Values into the Curriculum
1.	17CHX12	Employability Skills	Types of human behaviour self-esteem, self-confidence
2.	17GEP02	Inter Personal Values	Developing harmony with others - Healthy relationship Core Value, Pathway to blissful life - Values



  
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3.	17MEZ01	Engineering Ergonomics	Working Posture, Maintenance and monitoring of good postures, Organizational Issues, Job Design, Work rate, rest breaks, overtime, Work elated, Ill Health & Disability - Human Values
4.	17BAP02	Personal and Professional Ethics	Personal Ethics, Professional Ethics, Corporate Ethics, Values
5.	17BAP03	Research Immersion Project	Human Values
6.	17BAX65	Business Ethics, Corporate Social Responsibility and Governance	Business ethics, Corporate social responsibility and Governance
7.	17BAX73	Ethics in Sports	Ethics in Sports - Values
8.	17BAX77	Psychology in Sports	Personality, Learning, Meaning, Types, Personality Traits of Sports Person. Definition, Theories on Learning- Classical and Operant conditioning Emotions, Goal Setting - Definition, Relation between emotions and Sports performance, why sportsmen respond emotionally- Meaning, Goal Setting Principles, Relation between Goal Setting and Performance in Sports, Values
9.	17BAX92	Disaster Management and Mitigation	Types of disasters-Phases of disaster management Visual inspection and study of available documents Introduction- Community planning - Legal frame work - Institutional mechanism - Schemes and grants on DM - Values
10.	17CHX12	Employability Skills	Types of human behaviour self-esteem, self-confidence, Human Values
11.	15GEC03	Professional Ethics and Human Values	Professional Ethics and Human Values
12.	15EDX05	Maintenance Engineering	Maintenance Systems, reactive, preventive, predictive or proactive systems, condition based maintenance, maintenance techniques such as RCM, TPM & CMMS, Asset Planning and scheduling of activities in maintenance
13.	13GEC03	Professional Ethics and Human Values	Professional Ethics and Human Values

## Environment and Sustainability

S.No	Course Code	Course Name	Cross cutting issues relevant to Environment and Sustainability into the Curriculum
1.	17AGX12	Soil and Water Conservation Engineering	Erosion control measures - Afforestation - Wind erosion control - wind breaks and shelter belts - Watershed management plan - Water harvesting methods



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2.	17AGX13	Sustainable Agriculture	Rainfall, Drought and production instability - Impact of climate change on Agriculture - organic farming - Sustainable food Security Action Plan
3.	17AGX18	Human Engineering and Safety in Agriculture	Mechanical environment; noise and vibration and their physiological effects, thermal environment; heat stress, thermal comfort, Road accidents, road signs and accident prevention; Safety symbols and signs, hand signals, colour codes for agricultural equipment
4.	17CHC17	Chemical Process Plant Safety and Hazard Analysis	Safety measures in storage and transportation of chemicals - Plant maintenance
5.	17CHX11	Air Pollution and Control	Air Pollution
6.	17CEC02	Engineering Geology	Hydro geological style, groundwater contamination, artificial recharge of groundwater, flood, cyclone, Volcano, Earthquake, Tsunami
7.	17CEC19	Environmental Engineering	Public Water supply system, Characteristics of water, Anaerobic Stabilization units, Septic tanks, Self-purification of surface water bodies
8.	17CEX08	Green Buildings	Enhancing Ecosystems, Health and Safety Planning, Short and long term environment benefits
9.	17CEX10	Industrial Wastes Treatment and Disposal	Human Health, Environmental legislations related to prevention and control of industrial effluents and hazardous wastes , Methods of Handling
10.	17CEX11	Ground Water Engineering	Ground water development and Potential in India – GEC norms, health and aesthetic aspects of water quality, Environmental concern and regulatory requirements
11.	17CEX12	Municipal Solid Waste Management	Public health and environmental effects, Social and Financial aspects – Municipal solid waste (M&H) rules, Public awareness; Role of NGO's. Selection of location operation & maintenance, Public health and economic aspects of open storage
12.	17CEX15	Environmental Impact Assessment	Public participation, Plan for mitigation of adverse impact on environment, Addressing the issues related to the Project Affected People, Environmental Auditing
13.	17CEZ02	Air Pollution Management	Pollution control for specific major industries, Town planning regulation of new industries
14.	17CSX12	Green Computing	Green computing: Carbon Foot Print, Scoop on Power - Environmental Intelligence and Green Supply Chains - Buying a Green Computer – Recycling Your Computer – Socio cultural Aspects of Green IT, the Environmentally Responsible Business Strategies Research Survey



  
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15.	17EEZ01	Renewable Energy Technology	Environmental aspects of energy utilization, Energy and Sustainable Development, Safety and environmental aspects, Energy farming, Social and environmental aspects
16.	17EEZ03	Energy Auditing, Conservation and Management	Energy Scenario, Principles of Energy Conservation, Resource Availability, Energy Savings, Energy Management, Opportunities in electrical heating-Lighting System, Energy Audit.
17.	17EEX08	Energy Management and Auditing	Types and Forms of Energy-Flue gas analysis, Thermal loss measurements - Air quality analysis, Power factor and effect of harmonics in power quality.
18.	17EEX02	Energy Studies	Fossil fuels-Depletion of Energy Resources-Energy policy issues-Energy Pricing and its impact on global variations.
19.	17MEX32	Renewable Sources of Energy	Biofuels Classification, biomass production for energy forming, solar distillation, solar drying, wind energy, tidal and geothermal energy
20.	17MEZ02	Energy audit and Resource Management	Reasons to save energy (Financial and environmental), Fuel and Energy Substitution
21.	17MEZ03	Electric Vehicle Technology	Alternative energy sources, Solar Photovoltaics, wind power, flywheels
22.	17CEZ01	Energy Conservation in Buildings	Energy conservation in buildings, Computer packages for thermal design of buildings and performance prediction, Integration of emerging technologies
23.	15STZ02	Solid and Hazardous Waste Management	Recycling and Reuse, Biological and Chemical Conversion Technologies, Landfill closure and environmental monitoring
24.	15STZ03	Energy Efficient Structures	Environmental factors affecting building design, Concepts of Green Buildings
25.	15PEX15	Solar and Energy Storage system	Power conditioning and regulation-Design issues for central power stations-Impact of intermittent generation-Solar car.
26.	15PEX12	Wind Energy Conversion System	Generation model for Steady State and Transient Stability analysis, Industry trends wind interconnection impact on dynamic performance of the power system including modelling issues.
27.	15PEX11	Smart Grid	Global Smart Grid initiatives-Smart energy resources-Plug in Hybrid Electric Vehicles-Power quality issues of Grid connected Renewable energy sources.
28.	15MEX16	Solar Thermal Systems	Solar Thermal Collectors, Solar Thermal Utilities, Solar Concentrators and Power Generation
29.	15MEZ03	Electric Vehicle Technology	Alternative energy sources, Solar Photovoltaics, wind power, flywheels



  
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30.	15GEC03	Professional Ethics and Human Values	Professional Ethics and Human Values
31.	15EEZ04	Wind and Solar Electrical System	PV system design process and optimization, Safety Considerations in Wind turbine-Ocean Energy resources, Fuel Cell.
32.	15EEZ01	Renewable Energy Technology	Environmental aspects of energy utilization-Environment-Energy and Sustainable Development-Energy Planning-Safety and Environmental aspects-Energy Farming-Social and Environmental aspects.
33.	15EEX24	Smart Grid	Alternative views of a Smart Grid-Smart energy efficient end use devices-Smart distributed Energy Resources
34.	15EEX18	Solar Energy Utilization	PV system design process and optimization-Safety Considerations in Wind turbine-Ocean Energy resources-Fuel Cell.
35.	15EEX01	Renewable Power Generation System	Atmospheric Pollution-GHG emission from various energy resources and its effects-Environmental Aspects: Solar PV, Wind and Fuel cell
36.	15ED102	Concepts of Engineering Design	Customer Oriented Design, Bench marking quality function deployment, Ergonomics & Aesthetics, Design for environment - Green design process: Material life cycle, embodied energy, carbon footprint, green design in industry, sustainability.
37.	15EDX20	Engineering Fracture Mechanics	Effects of Environment
38.	15EDX13	Design for Manufacture, Assembly and Environments	Design for the environment Introduction - Importance of DFE - Environmental objectives - Global issues - Regional and local issues - Basic DFE methods - Design guide lines - Lifecycle assessment - Basic method - AT&T's environmentally responsible product assessment - Weighted sum assessment method - Techniques to reduce environmental impact - Design to minimize material usage - Design for recyclability - Design for remanufacture - Design for energy efficiency - Design to regulations and standards.
39.	15GEC07	Economics and Business Finance for Civil Engineers	Supply choice of technology and quality control and quality production, Economics of ecology, environment, energy resources, local material selection, form and functional designs, Assistance from government budgeting support and international finance corporations, Security and risk aspects



  
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40.	15GEC04	Total Quality Management	Applications to manufacturing, Quality Auditing - QS 9000 - ISO 14000
41.	15CY201	Environmental Science and Engineering	Importance - need for public awareness, environmental effects of extracting and using mineral resources, Types of ecosystem: Structure and functions of forest ecosystem and river ecosystem. Biodiversity, women and child welfare, Role of information technology in environment and human health.
42.	15CEZ04	Building Services	Minimum level of illumination required for physically handicapped and elderly in building types, Protection against fire to be caused by A.C. Systems, Rain water harvesting systems, Necessity.
43.	15CEZ03	Air Pollution Management	Effects of air pollution on human beings, materials, vegetation, animals, global warming-ozone layer depletion, Principles and design of control measures, Environmental Impact Assessment and Air quality.
44.	15CEZ02	Waste Management	Transfer stations - labelling and handling of hazardous wastes, biological and chemical conversion technologies, landfill closure and environmental monitoring, landfill remediation
45.	15CEZ01	Energy conservation in buildings	Energy conservation in buildings, Control systems for energy efficient buildings, Integration of emerging technologies – Intelligent building design principles.
46.	15CEX26	Geo synthetics in Civil Engineering	Geo-synthetics in landfills
47.	15CEX20	Safety in Construction	Building evaluation for fire safety, Techniques of firefighting and demonstration
48.	15CEX18	Industrial Wastes Treatment and Disposal	Effects of industrial effluents on streams, sewer, land, sewage treatment plants and human health, Environmental legislations related to prevention and control of industrial effluents and hazardous wastes
49.	15CEX16	Municipal Solid Waste Management	Effects of improper disposal of solid wastes-Public health and environmental effects, Public health and economic aspects of open storage
50.	15CEX14	Ground Water Engineering	Health and aesthetic aspects of water quality, Environmental concern and regulatory requirements
51.	15CEX10	Green Buildings	Contemporary and Future Ecological Design, Sustainable sites and landscaping, Short and long term environment benefits
52.	15CE504	Environmental Engineering	Public Water supply system, surface water treatment



  
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53.	15CE301	Engineering Geology	Hydro-geological cycle, artificial recharge of ground water and harvesting of rainwater
54.	15BA411	Creativity and Innovation	Establishing criterion for assessment of creativity & innovation, virtual environments in scientific Visualization, New market disruption
55.	15BA301	International Business Management	International Business, Internationalizing business-Advantages, factors causing globalization of business-international business environment, country attractiveness, Political, economic and cultural environment, Protection Vs liberalization of global business environment.
56.	15BA311	Professional Skill Development	Interview skills, Types of interview, preparation for interview, mock interview. Group Discussion, Communication skills in Group Discussion, Structure of GD, GD process, successful GD techniques and skills bought out in GD – leadership and co-ordination. Time management and effective planning – identifying barriers to effective time management, prudent time management techniques, relationship between time management and stress management. Stress management People skills, Team work and development of leadership qualities.
57.	15BAY02	Environmental Management	Environment Management, Energy Management and Non-Conventional Energy, Environmental Management System



  
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## 1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, Human Values into the Curriculum

S. No	Course Code	Name of the Course	Institution integrates crosscutting issues relevant to			
			Professional Ethics	Gender	Human Values	Environment and Sustainability
1	17CHX12	Employability Skills	✓		✓	
2	17CEZ04	Road Safety Management	✓			
3	17CAX15	Organizational Behaviour and Entrepreneurship	✓		✓	
4	17CAX12	Professional Ethics	✓		✓	
5	17CAX20	Technical Documentation	✓			
6	17BAP02	Personal and Professional Ethics	✓		✓	
7	17BAP03	Research Immersion Project	✓		✓	
8	17BAP05	Community Immersion and Entrepreneur Immersion Project	✓			
9	17BAX61	Disaster Management	✓			
10	17BAX62	Environmental Management	✓			✓
11	17BAX65	Business Ethics, Corporate Social Responsibility and Governance	✓		✓	✓
12	17BAX73	Ethics in Sports	✓		✓	
13	17BAX77	Psychology in Sports	✓		✓	
14	17BAX92	Disaster Management and Mitigation	✓		✓	
15	15MEZ02	Project Management	✓			
16	15EDX05	Maintenance Engineering	✓		✓	
17	15CA202	Organizational Behaviour	✓		✓	
18	15CAX06	Professional Ethics	✓		✓	



  
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19	15CAX16	Technical Documentation	✓			
20	15CAX19	Ethical Hacking	✓			
21	13GEZ13	Project Management	✓			
22	13CEZ02	Human Behaviors at Work	✓	✓		
23	13CEX17	Economics and Business Finance for Civil Engineers	✓			
24	13CAX07	Ethical Hacking	✓			
25	17MEX26	New Venture Planning and Management		✓		✓
26	17BAB05	Organizational Behaviour	✓	✓		
27	17BAP01	Executive Communication		✓		
28	17BAX14	Micro Finance		✓		
29	15BA105	Organizational Behaviour	✓	✓		
30	15BA111	Executive Communication Laboratory		✓		
31	15BAX13	Micro Finance		✓		
32	15MEX25	New Venture Planning and Management		✓		✓
33	13MEX17	New Venture Planning and Management		✓		✓
34	17GEP02	Inter Personal Values			✓	
35	17MEZ01	Engineering Ergonomics			✓	
36	13GEC03	Professional Ethics and Human Values	✓		✓	
37	17AGX12	Soil and Water Conservation Engineering				✓
38	17AGX13	Sustainable Agriculture				✓
39	17AGX18	Human Engineering and Safety in Agriculture			✓	✓



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40	17CHC17	Chemical Process Plant Safety and Hazard Analysis				✓
41	17CHX11	Air Pollution and Control				✓
42	17CEC02	Engineering Geology				✓
43	17CEC19	Environmental Engineering				✓
44	17CEX08	Green Buildings				✓
45	17CEX10	Industrial Wastes Treatment and Disposal				✓
46	17CEX11	Ground Water Engineering				✓
47	17CEX12	Municipal Solid Waste Management				✓
48	17CEX15	Environmental Impact Assessment				✓
49	17CEZ02	Air Pollution Management				✓
50	17CSX12	Green Computing				✓
51	17EEZ01	Renewable Energy Technology				✓
52	17EEZ03	Energy Auditing, Conservation and Management	✓			✓
53	17EEX08	Energy Management and Auditing	✓			✓
54	17EEX02	Energy Studies				✓
55	17MEX32	Renewable Sources of Energy				✓
56	17MEZ02	Energy audit and Resource Management	✓			✓
57	17MEZ03	Electric Vehicle Technology				✓
58	17CEZ01	Energy Conservation in Buildings				✓
59	15STZ02	Solid and Hazardous Waste Management				✓
60	15STZ03	Energy Efficient Structures				✓



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61	15PEX15	Solar and Energy Storage system				✓
62	15PEX12	Wind Energy Conversion System				✓
63	15PEX11	Smart Grid				✓
64	15MEX16	Solar Thermal Systems				✓
65	15MEZ03	Electric Vehicle Technology				✓
66	15GEC03	Professional Ethics and Human Values	✓		✓	
67	15EEZ04	Wind and Solar Electrical System				✓
68	15EEZ01	Renewable Energy Technology				✓
69	15EEX24	Smart Grid				✓
70	15EEX18	Solar Energy Utilization				✓
71	15EEX01	Renewable Power Generation System				✓
72	15ED102	Concepts of Engineering Design	✓			✓
73	15EDX20	Engineering Fracture Mechanics				✓
74	15EDX13	Design for Manufacture, Assembly and Environments	✓			✓
75	15GEC07	Economics and Business Finance for Civil Engineers	✓			✓
76	15GEC04	Total Quality Management	✓			✓
77	15CY201	Environmental Science and Engineering				✓
78	15CEZ04	Building Services				✓
79	15CEZ03	Air Pollution Management				✓
80	15CEZ02	Waste Management				✓
81	15CEZ01	Energy conservation in buildings				✓



  
**PRINCIPAL**  
Nandha Engineering College  
(Autonomous)  
Erode - 638 052.



# NANDHA ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

ERODE - 638 052 TAMILNADU

Email: [principal@nandhaengg.org](mailto:principal@nandhaengg.org) Mobile: 73737 12234

82	15CEX26	Geo-synthetics in Civil Engineering				✓
83	15CEX20	Safety in Construction			✓	✓
84	15CEX18	Industrial Wastes Treatment and Disposal			✓	✓
85	15CEX16	Municipal Solid Waste Management				✓
86	15CEX14	Ground Water Engineering				✓
87	15CEX10	Green Buildings				✓
88	15CE504	Environmental Engineering				✓
89	15CE301	Engineering Geology				✓
90	15BA411	Creativity and Innovation				✓
91	15BA301	International Business Management	✓			✓
92	15BA311	Professional Skill Development	✓		✓	
93	15BAY02	Environmental Management				✓



  
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